



# BARGE "EMS 505"

## INNAGE TRIM TABLE

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

(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 - 00-3/8"  
FOR A MEASURED INNAGE GAUGE OF 4'-00" ON 1 PORT, THE TRIM CORRECTED INNAGE IS 3'-11 5/8"

LENGTH BETWEEN DRAFT MARKS: 236'-08"

February 5, 2018

PRECISION MEASUREMENT  
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# BARGE "EMS 505"

## 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.										GAUGE HEIGHT 16'-06 1/2"																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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# BARGE "EMS 505"

## 1 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 12 U.S. GALLONS

IN 10 FT.		IN 11 FT.		IN 12 FT.		IN 13 FT.		IN 14 FT.		IN 16 FT.		IN 17 FT.		IN 18 FT.		GAUGE HEIGHT 18'-08 1/2"	
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
0	3,287.43	0	3,609.08	0	3,946.14	0	4,281.24	0	4,625.33	0	4,970.08	0	5,315.12	0	5,660.12	0	6,005.12
1/4	3,274.56	1/4	3,616.19	1/4	3,962.83	1/4	4,297.87	1/4	4,642.96	1/4	4,987.71	1/4	5,332.75	1/4	5,677.75	1/4	6,022.75
1/2	3,261.67	1/2	3,623.31	1/2	3,969.93	1/2	4,273.81	1/2	4,618.90	1/2	4,963.65	1/2	5,308.69	1/2	5,653.69	1/2	6,000.00
3/4	3,248.78	3/4	3,630.43	3/4	3,976.99	3/4	4,249.75	3/4	4,594.84	3/4	4,939.59	3/4	5,284.63	3/4	5,628.63	3/4	5,975.00
1	3,235.80	1	3,637.56	1	3,984.07	1	4,225.69	1	4,570.78	1	4,915.53	1	5,260.52	1	5,603.63	1	5,960.00
1 1/4	3,222.92	1 1/4	3,644.68	1 1/4	3,991.14	1 1/4	4,201.61	1 1/4	4,546.70	1 1/4	4,891.45	1 1/4	5,236.41	1 1/4	5,578.63	1 1/4	5,945.00
1 1/2	3,210.14	1 1/2	3,651.78	1 1/2	3,998.22	1 1/2	4,177.53	1 1/2	4,522.62	1 1/2	4,867.37	1 1/2	5,212.28	1 1/2	5,554.50	1 1/2	5,930.00
3/4	3,197.26	3/4	3,658.90	3/4	3,995.35	3/4	4,153.46	3/4	4,498.55	3/4	4,843.30	3/4	5,188.11	3/4	5,540.50	3/4	5,915.00
2	3,184.37	2	3,666.02	2	4,002.42	2	4,129.39	2	4,474.44	2	4,819.18	2	5,164.00	2	5,526.50	2	5,900.00
1 1/4	3,171.49	1 1/4	3,673.13	1 1/4	4,009.50	1 1/4	4,105.32	1 1/4	4,450.39	1 1/4	4,795.13	1 1/4	5,140.00	1 1/4	5,512.50	1 1/4	5,885.00
1 1/2	3,158.61	1 1/2	3,680.25	1 1/2	4,016.57	1 1/2	4,081.25	1 1/2	4,426.34	1 1/2	4,771.08	1 1/2	5,116.00	1 1/2	5,498.50	1 1/2	5,870.00
3/4	3,145.73	3/4	3,687.37	3/4	4,023.64	3/4	4,057.12	3/4	4,402.29	3/4	4,747.03	3/4	5,092.00	3/4	5,484.50	3/4	5,855.00
3	3,132.84	3	3,694.49	3	4,030.71	3	4,033.00	3	4,378.24	3	4,722.98	3	5,068.00	3	5,470.50	3	5,840.00
1 1/4	3,119.96	1 1/4	3,701.61	1 1/4	4,037.78	1 1/4	4,019.06	1 1/4	4,354.17	1 1/4	4,699.12	1 1/4	5,044.00	1 1/4	5,456.50	1 1/4	5,825.00
1 1/2	3,107.08	1 1/2	3,708.72	1 1/2	4,044.85	1 1/2	4,005.14	1 1/2	4,330.08	1 1/2	4,675.03	1 1/2	5,020.00	1 1/2	5,442.50	1 1/2	5,810.00
3/4	3,094.20	3/4	3,715.84	3/4	4,051.93	3/4	4,002.22	3/4	4,305.91	3/4	4,650.98	3/4	5,000.00	3/4	5,428.50	3/4	5,795.00
4	3,081.31	4	3,722.96	4	4,059.01	4	3,998.30	4	4,281.84	4	4,626.95	4	4,976.00	4	5,414.50	4	5,780.00
1 1/4	3,068.43	1 1/4	3,730.07	1 1/4	4,066.09	1 1/4	3,995.39	1 1/4	4,257.77	1 1/4	4,602.92	1 1/4	4,952.00	1 1/4	5,400.50	1 1/4	5,765.00
1 1/2	3,055.55	1 1/2	3,737.17	1 1/2	4,073.17	1 1/2	3,992.48	1 1/2	4,228.70	1 1/2	4,578.85	1 1/2	4,928.00	1 1/2	5,386.50	1 1/2	5,750.00
3/4	3,042.67	3/4	3,744.28	3/4	4,080.25	3/4	3,989.57	3/4	4,204.63	3/4	4,554.78	3/4	4,904.00	3/4	5,372.50	3/4	5,735.00
5	3,029.78	5	3,751.39	5	4,087.33	5	3,986.66	5	4,180.56	5	4,530.73	5	4,880.00	5	5,358.50	5	5,720.00
1 1/4	3,016.90	1 1/4	3,758.47	1 1/4	4,094.41	1 1/4	3,983.75	1 1/4	4,156.49	1 1/4	4,506.70	1 1/4	4,856.00	1 1/4	5,344.50	1 1/4	5,705.00
1 1/2	3,004.02	1 1/2	3,765.54	1 1/2	4,101.49	1 1/2	3,980.84	1 1/2	4,128.37	1 1/2	4,482.65	1 1/2	4,832.00	1 1/2	5,330.50	1 1/2	5,690.00
3/4	2,991.14	3/4	3,772.62	3/4	4,108.57	3/4	3,977.93	3/4	4,104.25	3/4	4,458.52	3/4	4,808.00	3/4	5,316.50	3/4	5,675.00
6	2,978.25	6	3,779.70	6	4,115.65	6	3,975.02	6	4,080.33	6	4,434.40	6	4,784.00	6	5,302.50	6	5,660.00
1 1/4	2,965.37	1 1/4	3,786.78	1 1/4	4,122.73	1 1/4	3,972.10	1 1/4	4,056.21	1 1/4	4,410.27	1 1/4	4,760.00	1 1/4	5,288.50	1 1/4	5,645.00
1 1/2	2,952.48	1 1/2	3,793.85	1 1/2	4,129.81	1 1/2	3,969.19	1 1/2	4,032.09	1 1/2	4,386.15	1 1/2	4,736.00	1 1/2	5,274.50	1 1/2	5,630.00
3/4	2,939.60	3/4	3,800.93	3/4	4,136.89	3/4	3,966.27	3/4	4,007.97	3/4	4,362.02	3/4	4,712.00	3/4	5,260.50	3/4	5,615.00
7	2,926.72	7	3,808.04	7	4,143.97	7	3,963.35	7	4,000.00	7	4,337.90	7	4,688.00	7	5,246.50	7	5,600.00
1 1/4	2,913.84	1 1/4	3,815.12	1 1/4	4,151.05	1 1/4	3,960.43	1 1/4	3,976.03	1 1/4	4,313.78	1 1/4	4,664.00	1 1/4	5,232.50	1 1/4	5,585.00
1 1/2	2,900.96	1 1/2	3,822.20	1 1/2	4,158.13	1 1/2	3,957.51	1 1/2	3,952.12	1 1/2	4,289.66	1 1/2	4,640.00	1 1/2	5,218.50	1 1/2	5,570.00
3/4	2,888.08	3/4	3,829.28	3/4	4,165.21	3/4	3,954.59	3/4	3,928.04	3/4	4,265.54	3/4	4,616.00	3/4	5,204.50	3/4	5,555.00
8	2,875.19	8	3,836.36	8	4,172.29	8	3,951.67	8	3,904.12	8	4,241.42	8	4,592.00	8	5,190.50	8	5,540.00
1 1/4	2,862.31	1 1/4	3,843.44	1 1/4	4,179.37	1 1/4	3,948.75	1 1/4	3,881.20	1 1/4	4,217.30	1 1/4	4,568.00	1 1/4	5,176.50	1 1/4	5,525.00
1 1/2	2,849.43	1 1/2	3,850.52	1 1/2	4,186.45	1 1/2	3,945.83	1 1/2	3,868.28	1 1/2	4,193.18	1 1/2	4,544.00	1 1/2	5,162.50	1 1/2	5,510.00
3/4	2,836.55	3/4	3,857.60	3/4	4,193.53	3/4	3,942.91	3/4	3,844.36	3/4	4,169.06	3/4	4,520.00	3/4	5,148.50	3/4	5,495.00
9	2,823.67	9	3,864.68	9	4,200.61	9	3,940.00	9	3,821.44	9	4,144.94	9	4,496.00	9	5,134.50	9	5,480.00
1 1/4	2,810.78	1 1/4	3,871.76	1 1/4	4,207.69	1 1/4	3,937.08	1 1/4	3,800.52	1 1/4	4,120.82	1 1/4	4,472.00	1 1/4	5,120.50	1 1/4	5,465.00
1 1/2	2,797.90	1 1/2	3,878.84	1 1/2	4,214.77	1 1/2	3,934.16	1 1/2	3,777.60	1 1/2	4,096.70	1 1/2	4,448.00	1 1/2	5,106.50	1 1/2	5,450.00
3/4	2,785.02	3/4	3,885.92	3/4	4,221.85	3/4	3,931.24	3/4	3,754.68	3/4	4,072.58	3/4	4,424.00	3/4	5,092.50	3/4	5,435.00
10	2,772.14	10	3,893.00	10	4,228.93	10	3,928.32	10	3,731.76	10	4,048.50	10	4,400.00	10	5,078.50	10	5,420.00
1 1/4	2,759.26	1 1/4	3,899.08	1 1/4	4,236.01	1 1/4	3,925.40	1 1/4	3,708.84	1 1/4	4,024.38	1 1/4	4,376.00	1 1/4	5,064.50	1 1/4	5,405.00
1 1/2	2,746.38	1 1/2	3,906.16	1 1/2	4,243.09	1 1/2	3,922.48	1 1/2	3,685.92	1 1/2	4,000.26	1 1/2	4,352.00	1 1/2	5,050.50	1 1/2	5,390.00
3/4	2,733.50	3/4	3,913.24	3/4	4,250.17	3/4	3,919.56	3/4	3,663.00	3/4	3,976.14	3/4	4,328.00	3/4	5,036.50	3/4	5,375.00
11	2,720.62	11	3,920.32	11	4,257.25	11	3,916.64	11	3,640.08	11	3,952.02	11	4,304.00	11	5,022.50	11	5,360.00
1 1/4	2,707.74	1 1/4	3,927.40	1 1/4	4,264.33	1 1/4	3,913.72	1 1/4	3,617.16	1 1/4	3,927.90	1 1/4	4,280.00	1 1/4	5,008.50	1 1/4	5,345.00
1 1/2	2,694.86	1 1/2	3,934.48	1 1/2	4,271.41	1 1/2	3,910.80	1 1/2	3,594.24	1 1/2	3,903.78	1 1/2	4,256.00	1 1/2	5,000.00	1 1/2	5,330.00
3/4	2,681.98	3/4	3,941.56	3/4	4,278.49	3/4	3,907.88	3/4	3,571.32	3/4	3,880.86	3/4	4,232.00	3/4	4,986.00	3/4	5,315.00

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/05/2018 SW - JB  
CALCULATED: 02/05/2018 CL  
PRINTED: 02/05/2018 CL

CANCEL B AND SUPERCEDES  
ALL PRIOR TO 02/2019

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
P.O. Box 2892  
Pearland, Texas 77666  
<http://www.pmainc.net>

*Paul J. Jones*





# BARGE "EMS 505"

## 1 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.		10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.		20 FT.		21 FT.		22 FT.		23 FT.		24 FT.		25 FT.		26 FT.		27 FT.		28 FT.		29 FT.		30 FT.		31 FT.		32 FT.		33 FT.		34 FT.		35 FT.		36 FT.		37 FT.		38 FT.		39 FT.		40 FT.		41 FT.		42 FT.		43 FT.		44 FT.		45 FT.		46 FT.		47 FT.		48 FT.		49 FT.		50 FT.		51 FT.		52 FT.		53 FT.		54 FT.		55 FT.		56 FT.		57 FT.		58 FT.		59 FT.		60 FT.		61 FT.		62 FT.		63 FT.		64 FT.		65 FT.		66 FT.		67 FT.		68 FT.		69 FT.		70 FT.		71 FT.		72 FT.		73 FT.		74 FT.		75 FT.		76 FT.		77 FT.		78 FT.		79 FT.		80 FT.		81 FT.		82 FT.		83 FT.		84 FT.		85 FT.		86 FT.		87 FT.		88 FT.		89 FT.		90 FT.		91 FT.		92 FT.		93 FT.		94 FT.		95 FT.		96 FT.		97 FT.		98 FT.		99 FT.		100 FT.		101 FT.		102 FT.		103 FT.		104 FT.		105 FT.		106 FT.		107 FT.		108 FT.		109 FT.		110 FT.		111 FT.		112 FT.		113 FT.		114 FT.		115 FT.		116 FT.		117 FT.		118 FT.		119 FT.		120 FT.		121 FT.		122 FT.		123 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# BARGE "EMS 505"

## 1 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS & 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	3,283.02	0	3,604.73	0	3,941.37	0	4,266.11	0	4,586.90	0	4,914.40	0	5,244.40	0	5,576.40	0	5,910.40	0	6,246.40
1/4	3,270.83	1/4	3,611.83	1/4	3,948.15	1/4	4,268.39	1/4	4,589.18	1/4	4,916.71	1/4	5,246.71	1/4	5,578.71	1/4	5,912.71	1/4	6,248.71
1/2	3,277.73	1/2	3,618.94	1/2	3,954.94	1/2	4,274.97	1/2	4,595.76	1/2	4,923.29	1/2	5,253.29	1/2	5,585.29	1/2	5,919.29	1/2	6,255.29
3/4	3,284.54	3/4	3,626.05	3/4	3,961.75	3/4	4,281.95	3/4	4,602.74	3/4	4,930.27	3/4	5,258.27	3/4	5,590.27	3/4	5,924.27	3/4	6,262.27
1	3,291.95	1	3,633.16	1	3,968.61	1	4,288.81	1	4,609.60	1	4,937.13	1	5,265.13	1	5,597.13	1	5,931.13	1	6,269.13
1 1/4	3,299.08	1 1/4	3,640.27	1 1/4	3,975.25	1 1/4	4,295.37	1 1/4	4,615.71	1 1/4	4,943.24	1 1/4	5,269.74	1 1/4	5,601.74	1 1/4	5,935.74	1 1/4	6,276.74
1 1/2	3,306.17	1 1/2	3,647.36	1 1/2	3,982.00	1 1/2	4,302.00	1 1/2	4,622.39	1 1/2	4,950.24	1 1/2	5,276.24	1 1/2	5,608.24	1 1/2	5,942.24	1 1/2	6,283.24
3/2	3,313.28	3/2	3,654.48	3/2	3,988.74	3/2	4,308.74	3/2	4,629.13	3/2	4,957.08	3/2	5,283.08	3/2	5,615.08	3/2	5,948.08	3/2	6,290.08
2	3,320.39	2	3,661.59	2	3,995.49	2	4,315.49	2	4,635.83	2	4,963.78	2	5,289.78	2	5,621.78	2	5,954.78	2	6,297.78
1 3/4	3,327.49	1 3/4	3,668.70	1 3/4	4,002.19	1 3/4	4,322.19	1 3/4	4,642.62	1 3/4	4,970.57	1 3/4	5,296.57	1 3/4	5,628.57	1 3/4	5,961.57	1 3/4	6,304.57
2 1/4	3,334.60	2 1/4	3,675.81	2 1/4	4,008.90	2 1/4	4,328.90	2 1/4	4,649.33	2 1/4	4,977.28	2 1/4	5,303.28	2 1/4	5,635.28	2 1/4	5,968.28	2 1/4	6,311.28
2 1/2	3,341.71	2 1/2	3,682.92	2 1/2	4,015.60	2 1/2	4,335.60	2 1/2	4,656.06	2 1/2	4,984.01	2 1/2	5,310.01	2 1/2	5,642.01	2 1/2	5,975.01	2 1/2	6,318.01
3	3,348.82	3	3,690.03	3	4,022.31	3	4,342.31	3	4,662.42	3	4,990.37	3	5,316.37	3	5,648.37	3	5,981.37	3	6,324.37
1 3/4	3,355.93	1 3/4	3,697.14	1 3/4	4,028.97	1 3/4	4,348.97	1 3/4	4,669.07	1 3/4	4,996.02	1 3/4	5,323.02	1 3/4	5,654.02	1 3/4	5,988.02	1 3/4	6,331.02
1 1/2	3,363.04	1 1/2	3,704.24	1 1/2	4,035.63	1 1/2	4,355.63	1 1/2	4,675.63	1 1/2	4,999.63	1 1/2	5,329.63	1 1/2	5,660.63	1 1/2	5,994.63	1 1/2	6,338.63
3/2	3,370.14	3/2	3,711.35	3/2	4,042.30	3/2	4,362.30	3/2	4,682.30	3/2	5,006.30	3/2	5,336.30	3/2	5,666.30	3/2	5,999.30	3/2	6,345.30
4	3,377.25	4	3,718.46	4	4,048.96	4	4,368.96	4	4,688.96	4	5,013.00	4	5,343.00	4	5,673.00	4	6,006.00	4	6,352.00
1 3/4	3,384.36	1 3/4	3,725.56	1 3/4	4,055.63	1 3/4	4,375.56	1 3/4	4,695.56	1 3/4	5,019.56	1 3/4	5,349.56	1 3/4	5,679.56	1 3/4	6,012.56	1 3/4	6,359.56
1 1/2	3,391.47	1 1/2	3,732.66	1 1/2	4,062.31	1 1/2	4,382.31	1 1/2	4,702.31	1 1/2	5,026.31	1 1/2	5,356.31	1 1/2	5,686.31	1 1/2	6,019.31	1 1/2	6,366.31
3/2	3,398.58	3/2	3,739.76	3/2	4,068.93	3/2	4,388.93	3/2	4,708.93	3/2	5,033.00	3/2	5,363.00	3/2	5,693.00	3/2	6,026.00	3/2	6,373.00
5	3,405.69	5	3,746.86	5	4,075.45	5	4,395.45	5	4,715.45	5	5,039.45	5	5,369.45	5	5,699.45	5	6,032.45	5	6,380.45
1 3/4	3,412.80	1 3/4	3,753.93	1 3/4	4,082.04	1 3/4	4,402.04	1 3/4	4,722.04	1 3/4	5,046.04	1 3/4	5,376.04	1 3/4	5,706.04	1 3/4	6,039.04	1 3/4	6,387.04
1 1/2	3,419.90	1 1/2	3,761.00	1 1/2	4,088.82	1 1/2	4,408.82	1 1/2	4,728.82	1 1/2	5,052.82	1 1/2	5,382.82	1 1/2	5,712.82	1 1/2	6,046.82	1 1/2	6,394.82
3/2	3,427.01	3/2	3,768.06	3/2	4,095.20	3/2	4,415.20	3/2	4,735.20	3/2	5,059.20	3/2	5,389.20	3/2	5,719.20	3/2	6,053.20	3/2	6,401.20
6	3,434.12	6	3,775.13	6	4,101.79	6	4,421.79	6	4,741.79	6	5,065.79	6	5,395.79	6	5,725.79	6	6,059.79	6	6,408.79
1 3/4	3,441.23	1 3/4	3,782.19	1 3/4	4,108.33	1 3/4	4,428.33	1 3/4	4,748.33	1 3/4	5,072.33	1 3/4	5,402.33	1 3/4	5,732.33	1 3/4	6,066.33	1 3/4	6,415.33
1 1/2	3,448.34	1 1/2	3,789.19	1 1/2	4,114.87	1 1/2	4,434.87	1 1/2	4,754.87	1 1/2	5,078.87	1 1/2	5,408.87	1 1/2	5,738.87	1 1/2	6,072.87	1 1/2	6,422.87
3/2	3,455.45	3/2	3,796.21	3/2	4,121.41	3/2	4,441.41	3/2	4,761.41	3/2	5,085.41	3/2	5,415.41	3/2	5,745.41	3/2	6,079.41	3/2	6,429.41
7	3,462.56	7	3,803.24	7	4,127.95	7	4,447.95	7	4,767.95	7	5,091.95	7	5,421.95	7	5,751.95	7	6,085.95	7	6,436.95
1 3/4	3,469.66	1 3/4	3,810.23	1 3/4	4,134.48	1 3/4	4,454.48	1 3/4	4,774.48	1 3/4	5,104.48	1 3/4	5,434.48	1 3/4	5,764.48	1 3/4	6,098.48	1 3/4	6,443.48
1 1/2	3,476.77	1 1/2	3,817.22	1 1/2	4,140.98	1 1/2	4,460.98	1 1/2	4,780.98	1 1/2	5,110.98	1 1/2	5,440.98	1 1/2	5,770.98	1 1/2	6,104.98	1 1/2	6,450.98
3/2	3,483.88	3/2	3,824.20	3/2	4,147.48	3/2	4,467.48	3/2	4,787.48	3/2	5,117.48	3/2	5,447.48	3/2	5,777.48	3/2	6,111.48	3/2	6,457.48
8	3,490.99	8	3,831.19	8	4,153.99	8	4,473.99	8	4,793.99	8	5,123.99	8	5,453.99	8	5,783.99	8	6,117.99	8	6,464.99
1 3/4	3,498.10	1 3/4	3,838.14	1 3/4	4,160.42	1 3/4	4,480.42	1 3/4	4,800.42	1 3/4	5,130.42	1 3/4	5,460.42	1 3/4	5,790.42	1 3/4	6,124.42	1 3/4	6,471.42
1 1/2	3,505.21	1 1/2	3,845.09	1 1/2	4,166.87	1 1/2	4,486.87	1 1/2	4,806.87	1 1/2	5,136.87	1 1/2	5,466.87	1 1/2	5,796.87	1 1/2	6,130.87	1 1/2	6,478.87
3/2	3,512.31	3/2	3,852.03	3/2	4,173.32	3/2	4,493.32	3/2	4,813.32	3/2	5,143.32	3/2	5,473.32	3/2	5,803.32	3/2	6,137.32	3/2	6,485.32
9	3,519.42	9	3,858.99	9	4,179.77	9	4,499.77	9	4,819.77	9	5,149.77	9	5,479.77	9	5,809.77	9	6,143.77	9	6,492.77
1 3/4	3,526.53	1 3/4	3,865.89	1 3/4	4,186.17	1 3/4	4,506.17	1 3/4	4,826.17	1 3/4	5,156.17	1 3/4	5,486.17	1 3/4	5,816.17	1 3/4	6,150.17	1 3/4	6,499.17
1 1/2	3,533.64	1 1/2	3,872.78	1 1/2	4,192.68	1 1/2	4,512.68	1 1/2	4,832.68	1 1/2	5,162.68	1 1/2	5,492.68	1 1/2	5,822.68	1 1/2	6,157.68	1 1/2	6,506.68
3/2	3,540.75	3/2	3,879.70	3/2	4,199.18	3/2	4,519.18	3/2	4,839.18	3/2	5,169.18	3/2	5,499.18	3/2	5,829.18	3/2	6,164.18	3/2	6,513.18
10	3,547.86	10	3,886.60	10	4,205.38	10	4,525.38	10	4,845.38	10	5,175.38	10	5,505.38	10	5,835.38	10	6,169.38	10	6,520.38
1 3/4	3,554.97	1 3/4	3,893.47	1 3/4	4,211.74	1 3/4	4,531.74	1 3/4	4,851.74	1 3/4	5,181.74	1 3/4	5,511.74	1 3/4	5,841.74	1 3/4	6,176.74	1 3/4	6,527.74
1 1/2	3,562.07	1 1/2	3,900.34	1 1/2	4,218.10	1 1/2	4,538.10	1 1/2	4,858.10	1 1/2	5,188.10	1 1/2	5,518.10	1 1/2	5,848.10	1 1/2	6,183.10	1 1/2	6,534.10
3/2	3,569.18	3/2	3,907.20	3/2	4,224.46	3/2	4,544.46	3/2	4,864.46	3/2	5,194.46	3/2	5,524.46	3/2	5,854.46	3/2	6,189.46	3/2	6,541.46
11	3,576.29	11	3,914.07	11	4,230.82	11	4,550.82	11	4,870.82	11	5,200.82	11	5,530.82	11	5,860.82	11	6,195.82	11	6,548.82
1 3/4	3,583.40	1 3/4	3,920.89	1 3/4	4,237.15	1 3/4	4,557.15	1 3/4	4,877.15	1 3/4	5,207.15	1 3/4	5,537.15	1 3/4	5,867.15	1 3/4	6,202.15	1 3/4	6,555.15
1 1/2	3,590.51	1 1/2	3,927.72	1 1/2	4,243.47	1 1/2	4,563.47	1 1/2	4,883.47	1 1/2	5,213.47	1 1/2	5,543.47	1 1/2	5,873.47	1 1/2	6,208.47	1 1/2	6,562.47
3/2	3,597.62	3/2	3,934.54	3/2	4,249.79	3/2	4,569.79	3/2	4,889.79	3/2	5,219.79	3/2	5,549.79	3/2	5,879.79	3/2	6,214.79	3/2	6,569.79

STRAPPED: 02/08/2019 SW - JB

CALCULATED: 02/08/2019 CL

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*[Signature]*



# BARGE "EMS 505"

## 2 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

1 FT.			2 FT.			3 FT.			4 FT.			6 FT.			7 FT.			8 FT.			10' 05 3/4"		
IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
0	13.91	0	387.87	0	775.38	0	1,162.98	0	1,550.21	0	1,937.74	0	2,325.27	0	2,712.78	0	3,100.29	0	3,487.79	0	3,875.29	0	4,262.79
1/4	19.29	1/4	398.06	1/4	793.46	1/4	1,178.28	1/4	1,562.28	1/4	1,945.61	1/4	2,328.94	1/4	2,712.27	1/4	3,095.60	1/4	3,478.93	1/4	3,862.26	1/4	4,245.59
1/2	24.68	1/2	404.12	1/2	791.61	1/2	1,171.83	1/2	1,555.83	1/2	1,939.83	1/2	2,323.83	1/2	2,707.83	1/2	3,091.83	1/2	3,475.83	1/2	3,859.83	1/2	4,243.83
3/4	30.08	3/4	412.19	3/4	789.37	3/4	1,165.40	3/4	1,549.40	3/4	1,933.40	3/4	2,317.40	3/4	2,701.40	3/4	3,085.40	3/4	3,469.40	3/4	3,853.40	3/4	4,237.40
1	35.44	1	420.27	1	807.84	1	1,194.98	1	1,582.50	1	1,970.03	1	2,357.56	1	2,745.09	1	3,132.62	1	3,520.15	1	3,907.68	1	4,295.21
1 1/4	42.84	1 1/4	428.34	1 1/4	815.70	1 1/4	1,203.08	1 1/4	1,590.68	1 1/4	1,978.11	1 1/4	2,365.64	1 1/4	2,753.17	1 1/4	3,140.70	1 1/4	3,528.23	1 1/4	3,915.76	1 1/4	4,303.29
1 1/2	50.24	1 1/2	436.41	1 1/2	823.78	1 1/2	1,211.12	1 1/2	1,598.66	1 1/2	1,986.19	1 1/2	2,373.71	1 1/2	2,761.24	1 1/2	3,148.77	1 1/2	3,536.30	1 1/2	3,923.83	1 1/2	4,311.36
1 3/4	57.64	1 3/4	444.48	1 3/4	831.83	1 3/4	1,219.20	1 3/4	1,606.72	1 3/4	1,994.25	1 3/4	2,381.78	1 3/4	2,769.31	1 3/4	3,156.84	1 3/4	3,544.37	1 3/4	3,931.90	1 3/4	4,319.43
2	55.04	2	462.66	2	839.89	2	1,227.27	2	1,614.80	2	2,002.33	2	2,389.86	2	2,777.39	2	3,164.92	2	3,552.45	2	3,939.98	2	4,327.51
2 1/4	62.44	2 1/4	470.93	2 1/4	847.95	2 1/4	1,235.34	2 1/4	1,622.87	2 1/4	2,010.40	2 1/4	2,397.93	2 1/4	2,785.46	2 1/4	3,172.99	2 1/4	3,560.52	2 1/4	3,948.05	2 1/4	4,335.58
2 1/2	69.84	2 1/2	479.00	2 1/2	856.02	2 1/2	1,243.42	2 1/2	1,630.95	2 1/2	2,018.47	2 1/2	2,405.00	2 1/2	2,792.53	2 1/2	3,179.06	2 1/2	3,566.59	2 1/2	3,954.12	2 1/2	4,341.65
2 3/4	77.24	2 3/4	487.08	2 3/4	864.08	2 3/4	1,251.49	2 3/4	1,639.02	2 3/4	2,026.54	2 3/4	2,413.07	2 3/4	2,800.60	2 3/4	3,188.13	2 3/4	3,575.66	2 3/4	3,963.19	2 3/4	4,349.72
3	84.64	3	495.16	3	872.14	3	1,259.56	3	1,647.09	3	2,034.62	3	2,421.15	3	2,808.68	3	3,196.21	3	3,583.74	3	3,971.27	3	4,358.80
3 1/4	92.04	3 1/4	503.23	3 1/4	880.21	3 1/4	1,267.64	3 1/4	1,655.17	3 1/4	2,042.69	3 1/4	2,429.22	3 1/4	2,816.25	3 1/4	3,203.78	3 1/4	3,591.31	3 1/4	3,978.84	3 1/4	4,366.37
3 1/2	99.44	3 1/2	511.30	3 1/2	888.27	3 1/2	1,275.71	3 1/2	1,663.24	3 1/2	2,050.77	3 1/2	2,437.30	3 1/2	2,824.33	3 1/2	3,211.86	3 1/2	3,600.39	3 1/2	3,987.92	3 1/2	4,373.94
3 3/4	106.84	3 3/4	519.37	3 3/4	896.33	3 3/4	1,283.78	3 3/4	1,671.31	3 3/4	2,058.84	3 3/4	2,445.37	3 3/4	2,831.40	3 3/4	3,219.43	3 3/4	3,607.96	3 3/4	3,995.49	3 3/4	4,381.51
4	114.24	4	527.44	4	904.39	4	1,291.86	4	1,679.38	4	2,066.91	4	2,453.44	4	2,839.47	4	3,227.50	4	3,615.53	4	3,998.06	4	4,386.09
4 1/4	121.64	4 1/4	535.51	4 1/4	912.46	4 1/4	1,299.93	4 1/4	1,687.46	4 1/4	2,074.99	4 1/4	2,461.51	4 1/4	2,847.54	4 1/4	3,235.57	4 1/4	3,623.60	4 1/4	4,006.13	4 1/4	4,393.66
4 1/2	129.04	4 1/2	543.58	4 1/2	920.52	4 1/2	1,308.00	4 1/2	1,695.53	4 1/2	2,083.06	4 1/2	2,469.58	4 1/2	2,855.61	4 1/2	3,243.64	4 1/2	3,631.67	4 1/2	4,014.20	4 1/2	4,401.73
4 3/4	136.44	4 3/4	551.65	4 3/4	928.58	4 3/4	1,316.08	4 3/4	1,703.61	4 3/4	2,091.13	4 3/4	2,477.64	4 3/4	2,863.67	4 3/4	3,251.70	4 3/4	3,639.73	4 3/4	4,020.27	4 3/4	4,409.26
5	143.84	5	559.72	5	936.65	5	1,324.15	5	1,711.68	5	2,099.21	5	2,485.67	5	2,871.70	5	3,259.73	5	3,647.76	5	4,035.79	5	4,423.32
5 1/4	151.24	5 1/4	567.79	5 1/4	944.71	5 1/4	1,332.23	5 1/4	1,719.76	5 1/4	2,107.28	5 1/4	2,493.70	5 1/4	2,879.73	5 1/4	3,267.76	5 1/4	3,655.79	5 1/4	4,041.82	5 1/4	4,431.35
5 1/2	158.64	5 1/2	575.86	5 1/2	952.78	5 1/2	1,340.30	5 1/2	1,727.83	5 1/2	2,115.35	5 1/2	2,501.73	5 1/2	2,887.76	5 1/2	3,275.79	5 1/2	3,663.82	5 1/2	4,047.85	5 1/2	4,439.38
5 3/4	166.04	5 3/4	583.93	5 3/4	960.85	5 3/4	1,348.37	5 3/4	1,735.90	5 3/4	2,123.42	5 3/4	2,509.80	5 3/4	2,895.79	5 3/4	3,283.82	5 3/4	3,671.85	5 3/4	4,055.88	5 3/4	4,447.41
6	173.44	6	592.00	6	968.92	6	1,356.44	6	1,743.97	6	2,131.50	6	2,517.88	6	2,903.91	6	3,291.94	6	3,679.97	6	4,067.91	6	4,455.44
6 1/4	180.84	6 1/4	600.07	6 1/4	976.99	6 1/4	1,364.52	6 1/4	1,752.05	6 1/4	2,139.58	6 1/4	2,525.96	6 1/4	2,911.99	6 1/4	3,300.02	6 1/4	3,687.94	6 1/4	4,075.95	6 1/4	4,463.47
6 1/2	188.24	6 1/2	608.14	6 1/2	985.06	6 1/2	1,372.59	6 1/2	1,760.12	6 1/2	2,147.65	6 1/2	2,534.03	6 1/2	2,920.06	6 1/2	3,308.07	6 1/2	3,695.97	6 1/2	4,083.98	6 1/2	4,471.50
6 3/4	195.64	6 3/4	616.21	6 3/4	993.13	6 3/4	1,380.67	6 3/4	1,768.19	6 3/4	2,155.72	6 3/4	2,542.10	6 3/4	2,928.09	6 3/4	3,316.10	6 3/4	3,703.99	6 3/4	4,091.91	6 3/4	4,479.53
7	203.04	7	624.28	7	1,001.21	7	1,388.74	7	1,776.27	7	2,163.80	7	2,550.18	7	2,936.21	7	3,324.13	7	3,712.16	7	4,100.19	7	4,487.56
7 1/4	210.44	7 1/4	632.35	7 1/4	1,009.28	7 1/4	1,396.81	7 1/4	1,784.34	7 1/4	2,171.87	7 1/4	2,558.25	7 1/4	2,944.28	7 1/4	3,332.16	7 1/4	3,720.19	7 1/4	4,108.22	7 1/4	4,495.59
7 1/2	217.84	7 1/2	640.42	7 1/2	1,017.35	7 1/2	1,404.88	7 1/2	1,792.42	7 1/2	2,179.94	7 1/2	2,566.32	7 1/2	2,952.31	7 1/2	3,340.19	7 1/2	3,728.22	7 1/2	4,116.25	7 1/2	4,503.62
7 3/4	225.24	7 3/4	648.49	7 3/4	1,025.42	7 3/4	1,412.95	7 3/4	1,800.49	7 3/4	2,188.02	7 3/4	2,574.39	7 3/4	2,960.34	7 3/4	3,348.22	7 3/4	3,736.25	7 3/4	4,124.28	7 3/4	4,511.65
8	232.64	8	656.56	8	1,033.51	8	1,421.03	8	1,808.56	8	2,196.09	8	2,582.46	8	2,968.37	8	3,356.25	8	3,744.28	8	4,132.31	8	4,519.68
8 1/4	240.04	8 1/4	664.63	8 1/4	1,041.58	8 1/4	1,429.11	8 1/4	1,816.64	8 1/4	2,204.16	8 1/4	2,590.53	8 1/4	2,976.40	8 1/4	3,364.28	8 1/4	3,752.31	8 1/4	4,140.34	8 1/4	4,527.71
8 1/2	247.44	8 1/2	672.70	8 1/2	1,049.65	8 1/2	1,437.18	8 1/2	1,824.71	8 1/2	2,212.24	8 1/2	2,598.56	8 1/2	2,984.47	8 1/2	3,372.31	8 1/2	3,760.34	8 1/2	4,148.37	8 1/2	4,535.74
8 3/4	254.84	8 3/4	680.77	8 3/4	1,057.72	8 3/4	1,445.26	8 3/4	1,832.78	8 3/4	2,220.31	8 3/4	2,606.61	8 3/4	2,992.50	8 3/4	3,380.34	8 3/4	3,768.37	8 3/4	4,156.40	8 3/4	4,543.77
9	262.24	9	688.84	9	1,065.80	9	1,453.33	9	1,840.85	9	2,228.38	9	2,614.68	9	3,000.61	9	3,388.37	9	3,776.40	9	4,164.43	9	4,551.80
9 1/4	269.64	9 1/4	696.91	9 1/4	1,073.87	9 1/4	1,461.40	9 1/4	1,848.93	9 1/4	2,236.45	9 1/4	2,622.75	9 1/4	3,008.64	9 1/4	3,396.40	9 1/4	3,784.43	9 1/4	4,172.46	9 1/4	4,559.83
9 1/2	277.04	9 1/2	704.98	9 1/2	1,081.94	9 1/2	1,469.48	9 1/2	1,857.00	9 1/2	2,244.52	9 1/2	2,630.82	9 1/2	3,016.71	9 1/2	3,404.47	9 1/2	3,792.46	9 1/2	4,180.49	9 1/2	4,567.86
9 3/4	284.44	9 3/4	713.05	9 3/4	1,090.02	9 3/4	1,477.55	9 3/4	1,865.08	9 3/4	2,252.59	9 3/4	2,638.89	9 3/4	3,024.80	9 3/4	3,412.50	9 3/4	3,800.49	9 3/4	4,188.52	9 3/4	4,575.89
10	291.84	10	721.12	10	1,098.09	10	1,485.62	10	1,873.16	10	2,260.66	10	2,646.96	10	3,032.81	10	3,420.51	10	3,798.54	10	4,196.57	10	4,583.92
10 1/4	300.24	10 1/4	729.19	10 1/4	1,106.17	10 1/4	1,493.70	10 1/4	1,881.22	10 1/4	2,268.73	10 1/4	2,655.03	10 1/4	3,040.84	10 1/4	3,428.54	10 1/4	3,806.57	10 1/4	4,204.60	10 1/4	4,591.95
10 1/2	307.64	10 1/2	737.26	10 1/2	1,114.24	10 1/2	1,501.77	10 1/2	1,889.30	10 1/2	2,276.80	10 1/2	2,663.12	10 1/2	3,048.87	10 1/2	3,436.57	10 1/2	3,814.60	10 1/2	4,212.63	10 1/2	4,600.02
10 3/4	315.04	10 3/4	745.33	10 3/4	1,122.31	10 3/4	1,509.84	10 3/4	1,897.37	10 3/4	2,284.87	10 3/4	2,671.15	10 3/4	3,056.90	10 3/4	3,444.60	10 3/4	3,822.63	10 3/4	4,220.66	10 3/4	4,608.05
11	322.44	11	753.40	11	1,130.38	11	1,517.82	11	1,905.44	11	2,292.94	11	2,679.22	11	3,065.03	11	3,453.06	11	3,841.09	11	4,228.69	11	4,616.08





# BARGE "EMS 505"

## 2 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 18'-05 3/4"																			
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	3,876.31	0	4,262.84	0	4,648.16	0	5,002.58	0	5,332.78	0	5,635.60	0	5,911.72	0	6,161.72	0	6,411.72	0	6,661.72
1/4	3,883.38	1/4	4,270.91	1/4	4,655.23	1/4	5,009.65	1/4	5,339.86	1/4	5,642.68	1/4	5,918.80	1/4	6,168.80	1/4	6,418.80	1/4	6,668.80
1/2	3,891.45	1/2	4,278.98	1/2	4,662.30	1/2	5,016.72	1/2	5,346.93	1/2	5,649.75	1/2	5,924.93	1/2	6,175.93	1/2	6,425.93	1/2	6,675.93
3/4	3,899.53	3/4	4,287.05	3/4	4,669.37	3/4	5,023.79	3/4	5,354.00	3/4	5,656.82	3/4	5,932.00	3/4	6,182.00	3/4	6,432.00	3/4	6,682.00
1	3,907.60	1	4,295.13	1	4,675.98	1	5,031.10	1	5,361.10	1	5,663.93	1	5,939.10	1	6,189.10	1	6,439.10	1	6,690.10
1 1/4	3,915.68	1 1/4	4,303.20	1 1/4	4,683.04	1 1/4	5,038.16	1 1/4	5,368.16	1 1/4	5,670.99	1 1/4	5,946.16	1 1/4	6,196.16	1 1/4	6,446.16	1 1/4	6,697.16
1 1/2	3,923.75	1 1/2	4,311.28	1 1/2	4,690.10	1 1/2	5,045.23	1 1/2	5,375.23	1 1/2	5,678.06	1 1/2	5,953.23	1 1/2	6,202.23	1 1/2	6,453.23	1 1/2	6,704.23
3/2	3,931.82	3/2	4,319.35	3/2	4,697.16	3/2	5,052.30	3/2	5,382.30	3/2	5,685.13	3/2	5,960.30	3/2	6,209.30	3/2	6,460.30	3/2	6,711.30
2	3,939.90	2	4,327.42	2	4,704.82	2	5,059.36	2	5,389.36	2	5,692.19	2	5,967.36	2	6,216.36	2	6,467.36	2	6,718.36
2 1/4	3,947.97	2 1/4	4,335.50	2 1/4	4,711.84	2 1/4	5,066.43	2 1/4	5,396.43	2 1/4	5,700.26	2 1/4	5,974.43	2 1/4	6,223.43	2 1/4	6,474.43	2 1/4	6,725.43
2 1/2	3,956.04	2 1/2	4,343.57	2 1/2	4,718.84	2 1/2	5,073.50	2 1/2	5,403.50	2 1/2	5,707.33	2 1/2	5,981.50	2 1/2	6,230.50	2 1/2	6,481.50	2 1/2	6,732.50
3/2	3,964.12	3/2	4,351.64	3/2	4,725.46	3/2	5,080.57	3/2	5,410.57	3/2	5,714.40	3/2	5,989.57	3/2	6,237.57	3/2	6,488.57	3/2	6,739.57
3	3,972.19	3	4,359.72	3	4,732.07	3	5,087.61	3	5,417.61	3	5,721.44	3	5,996.61	3	6,244.61	3	6,495.61	3	6,746.61
3 1/4	3,980.26	3 1/4	4,367.79	3 1/4	4,739.04	3 1/4	5,094.65	3 1/4	5,424.65	3 1/4	5,728.48	3 1/4	6,003.65	3 1/4	6,251.65	3 1/4	6,502.65	3 1/4	6,753.65
3 1/2	3,988.34	3 1/2	4,375.86	3 1/2	4,746.21	3 1/2	5,101.70	3 1/2	5,431.70	3 1/2	5,735.53	3 1/2	6,010.70	3 1/2	6,258.70	3 1/2	6,509.70	3 1/2	6,760.70
4	4,004.48	4	4,392.01	4	4,753.34	4	5,108.75	4	5,438.75	4	5,742.58	4	6,017.75	4	6,265.75	4	6,516.75	4	6,768.75
4 1/4	4,012.56	4 1/4	4,400.07	4 1/4	4,760.86	4 1/4	5,115.84	4 1/4	5,445.84	4 1/4	5,749.67	4 1/4	6,024.84	4 1/4	6,272.84	4 1/4	6,523.84	4 1/4	6,775.84
4 1/2	4,020.63	4 1/2	4,408.13	4 1/2	4,767.38	4 1/2	5,122.93	4 1/2	5,452.93	4 1/2	5,756.76	4 1/2	6,031.93	4 1/2	6,280.93	4 1/2	6,531.93	4 1/2	6,783.93
5/2	4,028.70	5/2	4,416.19	5/2	4,774.86	5/2	5,130.00	5/2	5,460.00	5/2	5,763.83	5/2	6,039.00	5/2	6,288.00	5/2	6,539.00	5/2	6,791.00
3	4,036.78	3	4,424.26	3	4,781.92	3	5,137.08	3	5,467.08	3	5,770.91	3	6,046.08	3	6,295.08	3	6,546.08	3	6,798.08
4	4,044.85	4	4,432.32	4	4,789.00	4	5,144.16	4	5,474.16	4	5,777.99	4	6,053.16	4	6,302.16	4	6,553.16	4	6,805.16
4 1/4	4,052.92	4 1/4	4,440.39	4 1/4	4,796.07	4 1/4	5,151.25	4 1/4	5,481.25	4 1/4	5,785.08	4 1/4	6,060.25	4 1/4	6,309.25	4 1/4	6,560.25	4 1/4	6,812.25
4 1/2	4,061.00	4 1/2	4,448.46	4 1/2	4,803.14	4 1/2	5,158.34	4 1/2	5,488.34	4 1/2	5,792.17	4 1/2	6,067.34	4 1/2	6,316.34	4 1/2	6,567.34	4 1/2	6,819.34
5/2	4,069.07	5/2	4,456.53	5/2	4,810.21	5/2	5,165.43	5/2	5,495.43	5/2	5,799.26	5/2	6,074.43	5/2	6,323.43	5/2	6,574.43	5/2	6,827.43
3	4,077.15	3	4,464.60	3	4,817.28	3	5,172.52	3	5,502.52	3	5,806.35	3	6,083.52	3	6,332.52	3	6,583.52	3	6,836.52
4	4,085.22	4	4,472.67	4	4,824.33	4	5,179.61	4	5,509.61	4	5,813.44	4	6,090.61	4	6,339.61	4	6,590.61	4	6,843.61
4 1/4	4,093.30	4 1/4	4,480.74	4 1/4	4,831.40	4 1/4	5,186.70	4 1/4	5,516.70	4 1/4	5,820.53	4 1/4	6,097.70	4 1/4	6,346.70	4 1/4	6,597.70	4 1/4	6,850.70
4 1/2	4,101.37	4 1/2	4,488.81	4 1/2	4,838.49	4 1/2	5,193.79	4 1/2	5,523.79	4 1/2	5,827.62	4 1/2	6,104.79	4 1/2	6,353.79	4 1/2	6,604.79	4 1/2	6,857.79
5/2	4,109.44	5/2	4,496.88	5/2	4,845.56	5/2	5,200.88	5/2	5,530.88	5/2	5,834.71	5/2	6,115.88	5/2	6,364.88	5/2	6,615.88	5/2	6,868.88
3	4,117.51	3	4,504.16	3	4,852.18	3	5,207.93	3	5,537.93	3	5,841.76	3	6,122.93	3	6,371.93	3	6,622.93	3	6,875.93
4	4,125.58	4	4,512.23	4	4,859.25	4	5,215.02	4	5,545.02	4	5,848.85	4	6,130.02	4	6,379.02	4	6,630.02	4	6,883.02
4 1/4	4,133.66	4 1/4	4,520.30	4 1/4	4,866.32	4 1/4	5,222.10	4 1/4	5,557.10	4 1/4	5,860.93	4 1/4	6,137.10	4 1/4	6,386.10	4 1/4	6,637.10	4 1/4	6,890.10
4 1/2	4,141.73	4 1/2	4,528.37	4 1/2	4,873.39	4 1/2	5,229.20	4 1/2	5,564.20	4 1/2	5,868.03	4 1/2	6,144.20	4 1/2	6,393.20	4 1/2	6,644.20	4 1/2	6,897.20
5/2	4,149.81	5/2	4,536.44	5/2	4,880.46	5/2	5,236.29	5/2	5,571.29	5/2	5,875.12	5/2	6,151.29	5/2	6,400.29	5/2	6,651.29	5/2	6,904.29
3	4,157.88	3	4,544.51	3	4,887.53	3	5,243.38	3	5,578.38	3	5,882.21	3	6,158.38	3	6,407.38	3	6,658.38	3	6,911.38
4	4,165.95	4	4,552.58	4	4,894.60	4	5,250.47	4	5,585.47	4	5,889.30	4	6,165.47	4	6,414.47	4	6,665.47	4	6,918.47
4 1/4	4,174.03	4 1/4	4,560.65	4 1/4	4,901.68	4 1/4	5,257.56	4 1/4	5,592.56	4 1/4	5,896.39	4 1/4	6,172.56	4 1/4	6,421.56	4 1/4	6,672.56	4 1/4	6,925.56
4 1/2	4,182.10	4 1/2	4,568.72	4 1/2	4,908.76	4 1/2	5,264.65	4 1/2	5,600.65	4 1/2	5,904.48	4 1/2	6,179.65	4 1/2	6,428.65	4 1/2	6,679.65	4 1/2	6,932.65
5/2	4,190.17	5/2	4,576.79	5/2	4,915.83	5/2	5,271.74	5/2	5,607.74	5/2	5,911.57	5/2	6,186.74	5/2	6,435.74	5/2	6,686.74	5/2	6,940.74
3	4,198.25	3	4,584.86	3	4,923.90	3	5,278.83	3	5,614.83	3	5,918.66	3	6,193.83	3	6,442.83	3	6,693.83	3	6,947.83
4	4,206.32	4	4,592.93	4	4,931.97	4	5,285.92	4	5,621.92	4	5,925.75	4	6,200.92	4	6,450.92	4	6,701.92	4	6,955.92
4 1/4	4,214.39	4 1/4	4,601.00	4 1/4	4,940.04	4 1/4	5,293.01	4 1/4	5,629.01	4 1/4	5,932.84	4 1/4	6,208.01	4 1/4	6,458.01	4 1/4	6,709.01	4 1/4	6,963.01
4 1/2	4,222.47	4 1/2	4,609.07	4 1/2	4,948.08	4 1/2	5,300.10	4 1/2	5,636.10	4 1/2	5,940.93	4 1/2	6,215.10	4 1/2	6,466.10	4 1/2	6,717.10	4 1/2	6,971.10
5/2	4,230.54	5/2	4,617.14	5/2	4,956.16	5/2	5,307.19	5/2	5,643.19	5/2	5,947.02	5/2	6,222.19	5/2	6,473.19	5/2	6,724.19	5/2	6,978.19
3	4,238.62	3	4,625.21	3	4,964.21	3	5,314.28	3	5,650.28	3	5,954.11	3	6,229.28	3	6,480.28	3	6,731.28	3	6,985.28
4	4,246.70	4	4,633.28	4	4,972.28	4	5,321.37	4	5,657.37	4	5,961.20	4	6,236.37	4	6,487.37	4	6,738.37	4	6,992.37
4 1/4	4,254.78	4 1/4	4,641.35	4 1/4	4,980.35	4 1/4	5,328.46	4 1/4	5,664.46	4 1/4	5,968.29	4 1/4	6,243.46	4 1/4	6,494.46	4 1/4	6,745.46	4 1/4	7,000.46
4 1/2	4,262.85	4 1/2	4,649.42	4 1/2	4,988.42	4 1/2	5,335.55	4 1/2	5,671.55	4 1/2	5,975.38	4 1/2	6,250.55	4 1/2	6,501.55	4 1/2	6,752.55	4 1/2	7,007.55
5/2	4,270.93	5/2	4,657.50	5/2	4,996.50	5/2	5,342.64	5/2	5,678.64	5/2	5,982.47	5/2	6,257.64	5/2	6,508.64	5/2	6,759.64	5/2	7,014.64



# BARGE "EMS 505"

## 2 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 18" 05 1/4"																			
IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.		
0	13.90	0	387.02	0	774.71	0	1,161.34	0	1,532.29	0	1,919.46	0	2,306.84	0	2,693.81	0	3,080.98		
14	18.28	14	386.08	14	772.77	14	1,159.08	14	1,640.36	14	1,927.63	14	2,314.71	14	2,701.88	14	3,089.03		
28	22.66	28	403.78	28	790.83	28	1,168.78	28	1,636.68	28	1,934.98	28	2,320.84	28	2,708.94	28	3,097.10		
42	27.04	42	421.48	42	808.88	42	1,179.48	42	1,656.48	42	1,943.98	42	2,330.84	42	2,718.01	42	3,105.16		
56	31.42	56	439.18	56	826.93	56	1,189.93	56	1,664.93	56	1,951.93	56	2,338.93	56	2,726.07	56	3,112.23		
70	35.80	70	456.88	70	844.01	70	1,199.94	70	1,674.94	70	1,961.94	70	2,348.94	70	2,734.14	70	3,119.29		
84	40.18	84	474.58	84	861.07	84	1,209.98	84	1,684.98	84	1,971.98	84	2,358.98	84	2,742.20	84	3,126.36		
98	44.56	98	492.28	98	877.12	98	1,219.98	98	1,694.98	98	1,981.98	98	2,368.98	98	2,750.27	98	3,133.42		
112	48.94	112	510.00	112	893.18	112	1,229.98	112	1,704.98	112	1,991.98	112	2,378.98	112	2,758.34	112	3,140.49		
126	53.32	126	527.70	126	909.24	126	1,239.98	126	1,714.98	126	2,001.98	126	2,388.98	126	2,766.40	126	3,147.56		
140	57.70	140	545.40	140	925.30	140	1,249.98	140	1,724.98	140	2,011.98	140	2,398.98	140	2,774.47	140	3,154.63		
154	62.08	154	563.10	154	941.36	154	1,259.98	154	1,734.98	154	2,021.98	154	2,408.98	154	2,782.53	154	3,161.70		
168	66.46	168	580.80	168	957.42	168	1,269.98	168	1,744.98	168	2,031.98	168	2,418.98	168	2,790.60	168	3,168.77		
182	70.84	182	598.50	182	973.48	182	1,279.98	182	1,754.98	182	2,041.98	182	2,428.98	182	2,798.67	182	3,175.84		
196	75.22	196	616.20	196	989.54	196	1,289.98	196	1,764.98	196	2,051.98	196	2,438.98	196	2,806.74	196	3,182.91		
210	79.60	210	633.90	210	1,005.60	210	1,299.98	210	1,774.98	210	2,061.98	210	2,448.98	210	2,814.81	210	3,190.00		
224	83.98	224	651.60	224	1,021.66	224	1,309.98	224	1,784.98	224	2,071.98	224	2,458.98	224	2,822.88	224	3,197.07		
238	88.36	238	669.30	238	1,037.72	238	1,319.98	238	1,794.98	238	2,081.98	238	2,468.98	238	2,832.95	238	3,204.14		
252	92.74	252	687.00	252	1,053.78	252	1,329.98	252	1,804.98	252	2,091.98	252	2,478.98	252	2,843.02	252	3,211.21		
266	97.12	266	704.70	266	1,069.84	266	1,339.98	266	1,814.98	266	2,101.98	266	2,488.98	266	2,853.09	266	3,218.28		
280	101.50	280	722.40	280	1,085.90	280	1,349.98	280	1,824.98	280	2,111.98	280	2,498.98	280	2,863.16	280	3,225.35		
294	105.88	294	740.10	294	1,101.96	294	1,359.98	294	1,834.98	294	2,121.98	294	2,508.98	294	2,873.23	294	3,232.42		
308	110.26	308	757.80	308	1,117.92	308	1,369.98	308	1,844.98	308	2,131.98	308	2,518.98	308	2,883.30	308	3,239.49		
322	114.64	322	775.50	322	1,133.98	322	1,379.98	322	1,854.98	322	2,141.98	322	2,528.98	322	2,893.37	322	3,246.56		
336	119.02	336	793.20	336	1,149.94	336	1,389.98	336	1,864.98	336	2,151.98	336	2,538.98	336	2,903.44	336	3,253.63		
350	123.40	350	810.90	350	1,165.90	350	1,399.98	350	1,874.98	350	2,161.98	350	2,548.98	350	2,913.51	350	3,260.70		
364	127.78	364	828.60	364	1,181.96	364	1,409.98	364	1,884.98	364	2,171.98	364	2,558.98	364	2,923.58	364	3,267.77		
378	132.16	378	846.30	378	1,197.92	378	1,419.98	378	1,894.98	378	2,181.98	378	2,568.98	378	2,933.65	378	3,274.84		
392	136.54	392	864.00	392	1,213.98	392	1,429.98	392	1,904.98	392	2,191.98	392	2,578.98	392	2,943.72	392	3,281.91		
406	140.92	406	881.70	406	1,229.94	406	1,439.98	406	1,914.98	406	2,201.98	406	2,588.98	406	2,953.79	406	3,288.98		
420	145.30	420	899.40	420	1,245.90	420	1,449.98	420	1,924.98	420	2,211.98	420	2,598.98	420	2,963.86	420	3,296.05		
434	149.68	434	917.10	434	1,261.96	434	1,459.98	434	1,934.98	434	2,221.98	434	2,608.98	434	2,973.93	434	3,303.12		
448	154.06	448	934.80	448	1,277.92	448	1,469.98	448	1,944.98	448	2,231.98	448	2,618.98	448	2,984.00	448	3,310.19		
462	158.44	462	952.50	462	1,293.98	462	1,479.98	462	1,954.98	462	2,241.98	462	2,628.98	462	2,994.07	462	3,317.26		
476	162.82	476	970.20	476	1,309.94	476	1,489.98	476	1,964.98	476	2,251.98	476	2,638.98	476	3,004.14	476	3,324.33		
490	167.20	490	987.90	490	1,325.90	490	1,499.98	490	1,974.98	490	2,261.98	490	2,648.98	490	3,014.21	490	3,331.40		
504	171.58	504	1005.60	504	1,341.96	504	1,509.98	504	1,984.98	504	2,271.98	504	2,658.98	504	3,024.28	504	3,338.47		
518	175.96	518	1023.30	518	1,357.92	518	1,519.98	518	1,994.98	518	2,281.98	518	2,668.98	518	3,034.35	518	3,345.54		
532	180.34	532	1041.00	532	1,373.98	532	1,529.98	532	2,004.98	532	2,291.98	532	2,678.98	532	3,044.42	532	3,352.61		
546	184.72	546	1058.70	546	1,389.94	546	1,539.98	546	2,014.98	546	2,301.98	546	2,688.98	546	3,054.49	546	3,359.68		
560	189.10	560	1076.40	560	1,405.90	560	1,549.98	560	2,024.98	560	2,311.98	560	2,698.98	560	3,064.56	560	3,366.75		
574	193.48	574	1094.10	574	1,421.96	574	1,559.98	574	2,034.98	574	2,321.98	574	2,708.98	574	3,074.63	574	3,373.82		
588	197.86	588	1111.80	588	1,437.92	588	1,569.98	588	2,044.98	588	2,331.98	588	2,718.98	588	3,084.70	588	3,380.89		
602	202.24	602	1129.50	602	1,453.98	602	1,579.98	602	2,054.98	602	2,341.98	602	2,728.98	602	3,094.77	602	3,387.96		
616	206.62	616	1147.20	616	1,469.94	616	1,589.98	616	2,064.98	616	2,351.98	616	2,738.98	616	3,104.84	616	3,395.03		
630	211.00	630	1164.90	630	1,485.90	630	1,599.98	630	2,074.98	630	2,361.98	630	2,748.98	630	3,114.91	630	3,402.10		
644	215.38	644	1182.60	644	1,501.96	644	1,609.98	644	2,084.98	644	2,371.98	644	2,758.98	644	3,124.98	644	3,409.17		
658	219.76	658	1200.30	658	1,517.92	658	1,619.98	658	2,094.98	658	2,381.98	658	2,768.98	658	3,135.05	658	3,416.24		
672	224.14	672	1218.00	672	1,533.98	672	1,629.98	672	2,104.98	672	2,391.98	672	2,778.98	672	3,145.12	672	3,423.31		
686	228.52	686	1235.70	686	1,549.94	686	1,639.98	686	2,114.98	686	2,401.98	686	2,788.98	686	3,155.19	686	3,430.38		
700	232.90	700	1253.40	700	1,565.90	700	1,649.98	700	2,124.98	700	2,411.98	700	2,798.98	700	3,165.26	700	3,437.45		
714	237.28	714	1271.10	714	1,581.96	714	1,659.98	714	2,134.98	714	2,421.98	714	2,808.98	714	3,175.33	714	3,444.52		
728	241.66	728	1288.80	728	1,597.92	728	1,669.98	728	2,144.98	728	2,431.98	728	2,818.98	728	3,185.40	728	3,451.59		
742	246.04	742	1306.50	742	1,613.98	742	1,679.98	742	2,154.98	742	2,441.98	742	2,828.98	742	3,195.47	742	3,458.66		
756	250.42	756	1324.20	756	1,629.94	756	1,689.98	756	2,164.98	756	2,451.98	756	2,838.98	756	3,205.54	756	3,465.73		
770	254.80	770	1341.90	770	1,645.90	770	1,699.98	770	2,174.98	770	2,461.98	770	2,848.98	770	3,215.61	770	3,472.80		
784	259.18	784	1359.60	784	1,661.96	784	1,709.98	784	2,184.98	784	2,471.98	784	2,858.98	784	3,225.68	784	3,479.87		
798																			





# BARGE "EMS 505"

## 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	3,855.30	0	4,242.48	0	4,624.47	0	4,951.02	0	5,311.83	0	5,614.63	0	5,914.63	0	6,214.63	0	6,514.63	0	6,814.63
1/4	3,853.36	1/4	4,240.54	1/4	4,622.53	1/4	4,949.08	1/4	5,309.89	1/4	5,612.69	1/4	5,912.69	1/4	6,212.69	1/4	6,512.69	1/4	6,812.69
1/2	3,871.43	1/2	4,258.61	1/2	4,640.60	1/2	4,967.15	1/2	5,327.96	1/2	5,630.76	1/2	5,930.76	1/2	6,230.76	1/2	6,530.76	1/2	6,830.76
3/4	3,878.50	3/4	4,265.68	3/4	4,647.67	3/4	4,974.22	3/4	5,345.03	3/4	5,647.83	3/4	5,947.83	3/4	6,247.83	3/4	6,547.83	3/4	6,847.83
1	3,897.58	1	4,274.74	1	4,666.73	1	5,010.13	1	5,344.47	1	5,645.08	1	5,945.08	1	6,245.08	1	6,545.08	1	6,845.08
1/4	3,895.63	1/4	4,282.81	1/4	4,674.80	1/4	5,022.20	1/4	5,356.54	1/4	5,657.15	1/4	5,957.15	1/4	6,257.15	1/4	6,557.15	1/4	6,857.15
1/2	3,903.69	1/2	4,290.87	1/2	4,682.86	1/2	5,030.26	1/2	5,364.60	1/2	5,665.21	1/2	5,965.21	1/2	6,265.21	1/2	6,565.21	1/2	6,865.21
3/4	3,911.76	3/4	4,298.94	3/4	4,690.92	3/4	5,038.32	3/4	5,372.66	3/4	5,673.27	3/4	5,973.27	3/4	6,273.27	3/4	6,573.27	3/4	6,873.27
1	3,919.83	1	4,307.00	1	4,698.99	1	5,046.39	1	5,380.73	1	5,681.34	1	5,981.34	1	6,281.34	1	6,581.34	1	6,881.34
1/4	3,927.89	1/4	4,315.07	1/4	4,707.06	1/4	5,054.46	1/4	5,388.80	1/4	5,689.41	1/4	5,989.41	1/4	6,289.41	1/4	6,589.41	1/4	6,889.41
1/2	3,935.96	1/2	4,323.14	1/2	4,715.13	1/2	5,062.53	1/2	5,396.87	1/2	5,697.48	1/2	5,997.48	1/2	6,297.48	1/2	6,597.48	1/2	6,897.48
3/4	3,944.03	3/4	4,331.20	3/4	4,723.20	3/4	5,070.60	3/4	5,405.04	3/4	5,705.65	3/4	6,005.65	3/4	6,305.65	3/4	6,605.65	3/4	6,905.65
1	3,952.09	1	4,339.27	1	4,731.27	1	5,078.67	1	5,413.11	1	5,713.72	1	6,013.72	1	6,313.72	1	6,613.72	1	6,913.72
1/4	3,960.16	1/4	4,347.34	1/4	4,739.34	1/4	5,086.74	1/4	5,421.18	1/4	5,721.79	1/4	6,021.79	1/4	6,321.79	1/4	6,621.79	1/4	6,921.79
1/2	3,968.22	1/2	4,355.40	1/2	4,747.40	1/2	5,094.80	1/2	5,429.24	1/2	5,729.85	1/2	6,029.85	1/2	6,329.85	1/2	6,629.85	1/2	6,929.85
3/4	3,976.29	3/4	4,363.47	3/4	4,755.47	3/4	5,102.87	3/4	5,437.31	3/4	5,737.92	3/4	6,037.92	3/4	6,337.92	3/4	6,637.92	3/4	6,937.92
1	3,984.36	1	4,371.53	1	4,763.53	1	5,110.94	1	5,445.38	1	5,745.99	1	6,045.99	1	6,345.99	1	6,645.99	1	6,945.99
1/4	3,992.42	1/4	4,379.59	1/4	4,771.59	1/4	5,119.01	1/4	5,453.45	1/4	5,754.06	1/4	6,054.06	1/4	6,354.06	1/4	6,654.06	1/4	6,954.06
1/2	4,000.48	1/2	4,387.64	1/2	4,779.64	1/2	5,127.08	1/2	5,461.51	1/2	5,762.12	1/2	6,062.12	1/2	6,362.12	1/2	6,662.12	1/2	6,962.12
3/4	4,008.56	3/4	4,395.70	3/4	4,787.70	3/4	5,135.15	3/4	5,469.57	3/4	5,770.18	3/4	6,070.18	3/4	6,370.18	3/4	6,670.18	3/4	6,970.18
1	4,016.62	1	4,403.76	1	4,795.76	1	5,143.22	1	5,477.64	1	5,778.25	1	6,078.25	1	6,378.25	1	6,678.25	1	6,978.25
1/4	4,024.68	1/4	4,411.77	1/4	4,803.77	1/4	5,151.29	1/4	5,485.71	1/4	5,786.32	1/4	6,086.32	1/4	6,386.32	1/4	6,686.32	1/4	6,986.32
1/2	4,032.75	1/2	4,419.78	1/2	4,811.78	1/2	5,159.36	1/2	5,493.78	1/2	5,794.39	1/2	6,094.39	1/2	6,394.39	1/2	6,694.39	1/2	6,994.39
3/4	4,040.82	3/4	4,427.81	3/4	4,819.81	3/4	5,167.43	3/4	5,501.83	3/4	5,802.44	3/4	6,102.44	3/4	6,402.44	3/4	6,702.44	3/4	7,002.44
1	4,048.89	1	4,435.83	1	4,827.83	1	5,175.50	1	5,509.86	1	5,810.47	1	6,110.47	1	6,410.47	1	6,710.47	1	7,010.47
1/4	4,056.96	1/4	4,443.81	1/4	4,835.81	1/4	5,183.57	1/4	5,517.93	1/4	5,818.54	1/4	6,118.54	1/4	6,418.54	1/4	6,718.54	1/4	7,018.54
1/2	4,065.02	1/2	4,451.78	1/2	4,843.78	1/2	5,191.64	1/2	5,525.96	1/2	5,826.57	1/2	6,126.57	1/2	6,426.57	1/2	6,726.57	1/2	7,026.57
3/4	4,073.09	3/4	4,459.76	3/4	4,851.76	3/4	5,200.71	3/4	5,533.99	3/4	5,834.60	3/4	6,134.60	3/4	6,434.60	3/4	6,734.60	3/4	7,034.60
1	4,081.15	1	4,467.73	1	4,859.73	1	5,208.78	1	5,542.06	1	5,842.67	1	6,142.67	1	6,442.67	1	6,742.67	1	7,042.67
1/4	4,089.22	1/4	4,475.76	1/4	4,867.76	1/4	5,216.85	1/4	5,550.13	1/4	5,850.74	1/4	6,150.74	1/4	6,450.74	1/4	6,750.74	1/4	7,050.74
1/2	4,097.28	1/2	4,483.83	1/2	4,875.83	1/2	5,224.92	1/2	5,558.20	1/2	5,858.81	1/2	6,158.81	1/2	6,458.81	1/2	6,758.81	1/2	7,058.81
3/4	4,105.35	3/4	4,491.82	3/4	4,883.82	3/4	5,233.00	3/4	5,566.28	3/4	5,866.89	3/4	6,166.89	3/4	6,466.89	3/4	6,766.89	3/4	7,066.89
1	4,113.42	1	4,499.85	1	4,891.85	1	5,241.07	1	5,574.36	1	5,874.97	1	6,174.97	1	6,474.97	1	6,774.97	1	7,074.97
1/4	4,121.49	1/4	4,507.81	1/4	4,900.81	1/4	5,249.15	1/4	5,582.44	1/4	5,883.05	1/4	6,183.05	1/4	6,483.05	1/4	6,783.05	1/4	7,083.05
1/2	4,129.55	1/2	4,515.21	1/2	4,908.21	1/2	5,257.22	1/2	5,590.52	1/2	5,891.13	1/2	6,191.13	1/2	6,491.13	1/2	6,791.13	1/2	7,091.13
3/4	4,137.61	3/4	4,523.08	3/4	4,916.08	3/4	5,265.30	3/4	5,608.60	3/4	5,909.21	3/4	6,209.21	3/4	6,509.21	3/4	6,809.21	3/4	7,109.21
1	4,145.68	1	4,530.98	1	4,924.08	1	5,273.37	1	5,616.68	1	5,917.29	1	6,217.29	1	6,517.29	1	6,817.29	1	7,117.29
1/4	4,153.76	1/4	4,538.81	1/4	4,932.26	1/4	5,281.45	1/4	5,624.77	1/4	5,925.38	1/4	6,225.38	1/4	6,525.38	1/4	6,825.38	1/4	7,125.38
1/2	4,161.81	1/2	4,546.65	1/2	4,940.31	1/2	5,289.53	1/2	5,632.85	1/2	5,935.40	1/2	6,235.40	1/2	6,535.40	1/2	6,835.40	1/2	7,135.40
3/4	4,169.88	3/4	4,554.48	3/4	4,948.14	3/4	5,297.60	3/4	5,640.92	3/4	5,943.52	3/4	6,243.52	3/4	6,543.52	3/4	6,843.52	3/4	7,143.52
1	4,177.95	1	4,562.32	1	4,956.00	1	5,305.67	1	5,648.04	1	5,950.96	1	6,250.96	1	6,550.96	1	6,850.96	1	7,150.96
1/4	4,186.01	1/4	4,570.11	1/4	4,963.79	1/4	5,313.74	1/4	5,656.11	1/4	5,959.03	1/4	6,259.03	1/4	6,559.03	1/4	6,859.03	1/4	7,159.03
1/2	4,194.08	1/2	4,577.91	1/2	4,971.59	1/2	5,321.81	1/2	5,664.12	1/2	5,967.04	1/2	6,267.04	1/2	6,567.04	1/2	6,867.04	1/2	7,167.04
3/4	4,202.14	3/4	4,585.70	3/4	4,979.28	3/4	5,329.88	3/4	5,672.23	3/4	5,975.15	3/4	6,275.15	3/4	6,575.15	3/4	6,875.15	3/4	7,175.15
1	4,210.21	1	4,593.49	1	4,987.00	1	5,337.95	1	5,680.26	1	5,983.18	1	6,283.18	1	6,583.18	1	6,883.18	1	7,183.18
1/4	4,218.28	1/4	4,601.23	1/4	4,994.73	1/4	5,346.02	1/4	5,688.33	1/4	5,991.25	1/4	6,291.25	1/4	6,591.25	1/4	6,891.25	1/4	7,191.25
1/2	4,226.34	1/2	4,609.08	1/2	4,999.81	1/2	5,354.09	1/2	5,696.40	1/2	5,999.32	1/2	6,301.32	1/2	6,601.32	1/2	6,901.32	1/2	7,201.32
3/4	4,234.41	3/4	4,616.72	3/4	5,007.49	3/4	5,362.16	3/4	5,704.51	3/4	6,007.43	3/4	6,307.43	3/4	6,607.43	3/4	6,907.43	3/4	7,209.43

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY

STRAPPED: 02/05/2018 BW - J8  
CALCULATED: 02/05/2018 CL  
PRINTED: 02/01/2019 CL

CANCELLED AND SUPERCEDED  
ALL PRIOR TO 02/2019

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
P.O. Box 2092  
Pearland, Texas 77580  
8106 Avenue Antares, Inc.

*Signature*



# BARGE "EMS 505"

## 3 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN			6 FT.			7 FT.			8 FT.			9 FT.			GAUGE HEIGHT 18'-04 3/4"		
IN	0	1	IN	0	1	IN	0	1	IN	0	1	IN	0	1	IN	0	1
0	13.02	0	382.30	0	723.93	0	1,086.31	0	1,448.68	0	1,811.05	0	2,173.42	0	2,535.79	0	2,898.16
1	18.06	1	388.83	1	731.44	1	1,092.84	1	1,455.21	1	1,817.58	1	2,179.95	1	2,542.32	1	2,904.69
2	23.10	2	395.37	2	738.98	2	1,100.38	2	1,462.75	2	1,824.12	2	2,187.49	2	2,550.86	2	2,911.23
3	28.14	3	401.91	3	746.52	3	1,107.92	3	1,470.29	3	1,831.66	3	2,195.03	3	2,558.40	3	2,918.77
4	33.18	4	408.45	4	754.06	4	1,115.46	4	1,477.83	4	1,839.20	4	2,202.57	4	2,565.94	4	2,926.31
5	38.22	5	414.99	5	761.60	5	1,123.00	5	1,485.37	5	1,846.74	5	2,210.11	5	2,573.48	5	2,933.85
6	43.26	6	421.53	6	769.14	6	1,130.54	6	1,492.91	6	1,854.28	6	2,217.65	6	2,581.02	6	2,941.40
7	48.30	7	428.07	7	776.68	7	1,138.08	7	1,500.45	7	1,861.82	7	2,225.19	7	2,588.56	7	2,948.94
8	53.34	8	434.61	8	784.22	8	1,145.62	8	1,508.00	8	1,869.36	8	2,232.73	8	2,596.10	8	2,956.48
9	58.38	9	441.15	9	791.76	9	1,153.16	9	1,515.54	9	1,876.90	9	2,240.27	9	2,603.64	9	2,964.02
10	63.42	10	447.69	10	799.30	10	1,160.70	10	1,523.08	10	1,884.44	10	2,247.81	10	2,611.18	10	2,971.56
11	68.46	11	454.23	11	806.84	11	1,168.24	11	1,530.62	11	1,891.98	11	2,255.35	11	2,618.72	11	2,979.10
12	73.50	12	460.77	12	814.38	12	1,175.78	12	1,538.16	12	1,899.52	12	2,262.89	12	2,626.26	12	2,986.64
13	78.54	13	467.31	13	821.92	13	1,183.32	13	1,545.70	13	1,907.06	13	2,270.43	13	2,633.80	13	2,994.18
14	83.58	14	473.85	14	829.46	14	1,190.86	14	1,553.24	14	1,914.60	14	2,277.97	14	2,641.34	14	3,001.72
15	88.62	15	480.39	15	837.00	15	1,198.40	15	1,560.78	15	1,922.14	15	2,285.51	15	2,648.88	15	3,009.26
16	93.66	16	486.93	16	844.54	16	1,205.94	16	1,568.32	16	1,929.68	16	2,293.05	16	2,656.42	16	3,016.80
17	98.70	17	493.47	17	852.08	17	1,213.48	17	1,575.86	17	1,937.22	17	2,300.59	17	2,663.96	17	3,024.34
18	103.74	18	499.99	18	859.62	18	1,221.02	18	1,583.40	18	1,944.76	18	2,308.13	18	2,671.50	18	3,031.88
19	108.78	19	506.53	19	867.16	19	1,228.56	19	1,590.94	19	1,952.30	19	2,315.67	19	2,679.04	19	3,039.42
20	113.82	20	513.07	20	874.70	20	1,236.10	20	1,598.48	20	1,959.84	20	2,323.21	20	2,686.58	20	3,046.96
21	118.86	21	519.61	21	882.24	21	1,243.64	21	1,606.02	21	1,967.38	21	2,330.75	21	2,694.12	21	3,054.50
22	123.90	22	526.15	22	889.78	22	1,251.18	22	1,613.56	22	1,974.92	22	2,338.29	22	2,701.66	22	3,062.04
23	128.94	23	532.69	23	897.32	23	1,258.72	23	1,621.10	23	1,982.46	23	2,345.83	23	2,709.20	23	3,069.58
24	133.98	24	539.23	24	904.86	24	1,266.26	24	1,628.64	24	1,990.00	24	2,353.37	24	2,716.74	24	3,077.12
25	139.02	25	545.77	25	912.40	25	1,273.80	25	1,636.18	25	1,997.54	25	2,360.91	25	2,724.28	25	3,084.66
26	144.06	26	552.31	26	919.94	26	1,281.34	26	1,643.72	26	2,005.08	26	2,368.45	26	2,731.82	26	3,092.20
27	149.10	27	558.85	27	927.48	27	1,288.88	27	1,651.26	27	2,012.62	27	2,375.99	27	2,739.36	27	3,099.74
28	154.14	28	565.39	28	935.02	28	1,296.42	28	1,658.80	28	2,020.16	28	2,383.53	28	2,746.90	28	3,107.28
29	159.18	29	571.93	29	942.56	29	1,303.96	29	1,666.34	29	2,027.70	29	2,391.07	29	2,754.44	29	3,114.82
30	164.22	30	578.47	30	950.10	30	1,311.50	30	1,673.88	30	2,035.24	30	2,398.61	30	2,761.98	30	3,122.36
31	169.26	31	585.01	31	957.64	31	1,319.04	31	1,681.42	31	2,042.78	31	2,406.15	31	2,769.52	31	3,129.90
32	174.30	32	591.55	32	965.18	32	1,326.58	32	1,688.96	32	2,050.32	32	2,413.69	32	2,777.06	32	3,137.44
33	179.34	33	598.09	33	972.72	33	1,334.12	33	1,696.50	33	2,057.86	33	2,421.23	33	2,784.60	33	3,144.98
34	184.38	34	604.63	34	980.26	34	1,341.66	34	1,704.04	34	2,065.40	34	2,428.77	34	2,792.14	34	3,152.52
35	189.42	35	611.17	35	987.80	35	1,349.20	35	1,711.58	35	2,072.94	35	2,436.31	35	2,799.68	35	3,159.96
36	194.46	36	617.71	36	995.34	36	1,356.74	36	1,719.12	36	2,080.48	36	2,443.85	36	2,807.22	36	3,167.50
37	199.50	37	624.25	37	1,002.88	37	1,364.28	37	1,726.66	37	2,088.02	37	2,451.39	37	2,814.76	37	3,175.04
38	204.54	38	630.79	38	1,010.42	38	1,371.82	38	1,734.20	38	2,095.56	38	2,458.93	38	2,822.30	38	3,182.58
39	209.58	39	637.33	39	1,017.96	39	1,379.36	39	1,741.74	39	2,103.10	39	2,466.47	39	2,829.84	39	3,190.12
40	214.62	40	643.87	40	1,025.50	40	1,386.90	40	1,749.28	40	2,110.64	40	2,474.01	40	2,837.38	40	3,197.66
41	219.66	41	650.41	41	1,033.04	41	1,394.44	41	1,756.82	41	2,118.18	41	2,481.55	41	2,844.92	41	3,205.20
42	224.70	42	656.95	42	1,040.58	42	1,401.98	42	1,764.36	42	2,125.72	42	2,489.09	42	2,852.46	42	3,212.74
43	229.74	43	663.49	43	1,048.12	43	1,409.52	43	1,771.90	43	2,133.26	43	2,496.63	43	2,860.00	43	3,220.28
44	234.78	44	670.03	44	1,055.66	44	1,417.06	44	1,779.44	44	2,140.80	44	2,504.17	44	2,867.54	44	3,227.82
45	239.82	45	676.57	45	1,063.20	45	1,424.60	45	1,786.98	45	2,148.34	45	2,511.71	45	2,875.08	45	3,235.36
46	244.86	46	683.11	46	1,070.74	46	1,432.14	46	1,794.52	46	2,155.88	46	2,519.25	46	2,882.62	46	3,242.90
47	249.90	47	689.65	47	1,078.28	47	1,439.68	47	1,802.06	47	2,163.42	47	2,526.79	47	2,890.16	47	3,250.44
48	254.94	48	696.19	48	1,085.82	48	1,447.22	48	1,809.60	48	2,170.96	48	2,534.33	48	2,897.70	48	3,257.98
49	259.98	49	702.73	49	1,093.36	49	1,454.76	49	1,817.14	49	2,178.50	49	2,541.87	49	2,905.24	49	3,265.52
50	265.02	50	709.27	50	1,100.90	50	1,462.30	50	1,824.68	50	2,186.04	50	2,549.41	50	2,912.78	50	3,273.06
51	270.06	51	715.81	51	1,108.44	51	1,469.84	51	1,832.22	51	2,193.58	51	2,556.95	51	2,920.32	51	3,280.60
52	275.10	52	722.35	52	1,115.98	52	1,477.38	52	1,839.76	52	2,201.12	52	2,564.49	52	2,927.86	52	3,288.14
53	280.14	53	728.89	53	1,123.52	53	1,484.92	53	1,847.30	53	2,208.66	53	2,572.03	53	2,935.40	53	3,295.68
54	285.18	54	735.43	54	1,131.06	54	1,492.46	54	1,854.84	54	2,216.20	54	2,579.57	54	2,942.94	54	3,303.22
55	290.22	55	741.97	55	1,138.60	55	1,499.99	55	1,862.38	55	2,223.74	55	2,587.11	55	2,950.48	55	3,310.76
56	295.26	56	748.51	56	1,146.14	56	1,507.53	56	1,869.92	56	2,231.28	56	2,594.65	56	2,958.02	56	3,318.30
57	300.30	57	755.05	57	1,153.68	57	1,515.07	57	1,877.46	57	2,238.82	57	2,602.19	57	2,965.56	57	3,325.84
58	305.34	58	761.59	58	1,161.22	58	1,522.61	58	1,885.00	58	2,246.36	58	2,609.73	58	2,973.10	58	3,333.38
59	310.38	59	768.13	59	1,168.76	59	1,530.15	59	1,892.54	59	2,253.90	59	2,617.27	59	2,980.64	59	3,340.92
60	315.42	60	774.67	60	1,176.30	60	1,537.69	60	1,899.98	60	2,261.44	60	2,624.81	60	2,988.18	60	3,348.46
61	320.46	61	781.21	61	1,183.84	61	1,545.23	61	1,907.52	61	2,268.98	61	2,632.35	61	2,995.72	61	3,356.00
62	325.50	62	787.75	62	1,191.38	62	1,552.77	62	1,915.06	62	2,276.52	62	2,639.89	62	3,003.26	62	3,363.54
63	330.54	63	794.29	63	1,198.92	63	1,560.31	63	1,922.60	63	2,284.06	63	2,647.43	63	3,010.80	63	3,371.08
64	335.58	64	800.83	64	1,206.46	64	1,567.85	64	1,930.14	64	2,291.60	64	2,654.97	64	3,018.34	64	3,378.62
65	340.62	65	807.37	65	1,214.00	65	1,575.39	65	1,937.68	65	2,299.14	65	2,662.51	65	3,025.88	65	3,386.16
66	345.66	66	813.91	66	1,221.54	66	1,582.93	66	1,945.22	66	2,306.68	66	2,670.05	66	3,033.42	66</	



# BARGE "EMS 505"

## 3 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 18'-04 3/4"																										
18 FT.																										
17 FT.																										
16 FT.																										
15 FT.																										
14 FT.																										
13 FT.																										
12 FT.																										
11 FT.																										
10 FT.																										
9 FT.																										
8 FT.																										
7 FT.																										
6 FT.																										
5 FT.																										
4 FT.																										
3 FT.																										
2 FT.																										
1 FT.																										
0 FT.																										





# BARGE "EMS 505"

## 3 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 10'-04.314"																													
0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		8 FT.		7 FT.		8 FT.		9 FT.		10 FT.		11 FT.		12 FT.			
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	
0	13.03	0	382.28	0	723.63	0	1074.99	0	1430.88	0	1792.08	0	2160.98	0	2531.90	0	2904.48	0	3279.18	0	3656.48	0	4035.90	0	4417.92	0	4802.16	0	5189.12
1	18.06	1	399.79	1	731.14	1	1082.20	1	1438.22	1	1799.55	1	2168.16	1	2538.48	1	2910.48	1	3284.58	1	3660.48	1	4038.90	1	4419.52	1	4802.76	1	5188.32
2	23.09	2	417.30	2	738.66	2	1089.41	2	1445.78	2	1807.05	2	2175.36	2	2546.16	2	2918.64	2	3293.58	2	3670.08	2	4049.50	2	4421.52	2	4804.76	2	5186.88
3	28.12	3	434.86	3	746.18	3	1096.41	3	1453.28	3	1814.55	3	2183.36	3	2554.16	3	2927.04	3	3302.58	3	3679.08	3	4059.50	3	4432.52	3	4815.76	3	5190.32
4	33.15	4	452.39	4	753.67	4	1103.82	4	1460.81	4	1822.08	4	2191.36	4	2562.16	4	2935.04	4	3310.58	4	3687.08	4	4069.50	4	4443.52	4	4826.76	4	5198.88
5	38.18	5	469.92	5	761.16	5	1111.03	5	1468.33	5	1829.55	5	2200.16	5	2570.16	5	2943.04	5	3321.58	5	3700.08	5	4081.50	5	4456.52	5	4839.76	5	5206.40
6	43.21	6	487.45	6	768.70	6	1118.24	6	1475.84	6	1836.66	6	2210.36	6	2580.16	6	2953.04	6	3332.58	6	3712.08	6	4093.50	6	4469.52	6	4852.76	6	5218.88
7	48.24	7	504.98	7	776.31	7	1125.46	7	1483.35	7	1843.55	7	2220.56	7	2590.16	7	2965.04	7	3343.58	7	3724.08	7	4105.50	7	4482.52	7	4865.76	7	5230.88
8	53.27	8	522.52	8	783.72	8	1132.67	8	1490.86	8	1851.06	8	2230.56	8	2600.16	8	2979.04	8	3354.58	8	3735.58	8	4117.50	8	4495.52	8	4878.76	8	5242.88
9	58.30	9	540.05	9	791.23	9	1139.88	9	1498.37	9	1858.57	9	2240.56	9	2610.16	9	2989.04	9	3365.58	9	3746.58	9	4129.50	9	4508.52	9	4891.76	9	5254.88
10	63.33	10	557.58	10	798.78	10	1147.10	10	1505.88	10	1866.08	10	2250.56	10	2620.16	10	2999.04	10	3376.58	10	3757.58	10	4141.50	10	4521.52	10	4904.76	10	5266.88
11	68.36	11	574.89	11	806.26	11	1154.32	11	1513.39	11	1873.59	11	2260.56	11	2630.16	11	3009.04	11	3387.58	11	3768.58	11	4153.50	11	4534.52	11	4917.76	11	5278.88
12	73.39	12	592.40	12	813.77	12	1161.54	12	1520.90	12	1881.10	12	2270.56	12	2640.16	12	3019.04	12	3398.58	12	3779.58	12	4165.50	12	4547.52	12	4930.76	12	5290.88
13	78.42	13	609.91	13	821.28	13	1168.76	13	1528.41	13	1888.61	13	2280.56	13	2650.16	13	3029.04	13	3409.58	13	3790.58	13	4177.50	13	4560.52	13	4943.76	13	5302.88
14	83.45	14	627.42	14	828.78	14	1175.97	14	1535.92	14	1896.12	14	2290.56	14	2660.16	14	3039.04	14	3420.58	14	3801.58	14	4189.50	14	4573.52	14	4956.76	14	5314.88
15	88.48	15	644.93	15	836.31	15	1183.19	15	1543.43	15	1903.63	15	2300.56	15	2670.16	15	3049.04	15	3431.58	15	3812.58	15	4201.50	15	4586.52	15	4969.76	15	5326.88
16	93.51	16	662.44	16	843.82	16	1190.41	16	1550.94	16	1911.14	16	2310.56	16	2680.16	16	3059.04	16	3442.58	16	3823.58	16	4213.50	16	4599.52	16	4982.76	16	5338.88
17	98.54	17	679.95	17	851.33	17	1197.63	17	1558.45	17	1918.65	17	2320.56	17	2690.16	17	3069.04	17	3453.58	17	3834.58	17	4225.50	17	4612.52	17	4995.76	17	5350.88
18	103.57	18	697.46	18	858.84	18	1204.85	18	1565.96	18	1926.16	18	2330.56	18	2700.16	18	3079.04	18	3464.58	18	3845.58	18	4237.50	18	4625.52	18	5008.76	18	5362.88
19	108.60	19	714.97	19	866.35	19	1212.07	19	1573.47	19	1933.67	19	2340.56	19	2710.16	19	3089.04	19	3475.58	19	3856.58	19	4249.50	19	4638.52	19	5021.76	19	5374.88
20	113.63	20	732.48	20	873.24	20	1219.29	20	1580.98	20	1941.18	20	2350.56	20	2720.16	20	3099.04	20	3486.58	20	3867.58	20	4261.50	20	4651.52	20	5034.76	20	5386.88
21	118.66	21	750.00	21	880.75	21	1226.51	21	1588.49	21	1948.69	21	2360.56	21	2730.16	21	3109.04	21	3497.58	21	3878.58	21	4273.50	21	4664.52	21	5047.76	21	5398.88
22	123.69	22	767.51	22	888.26	22	1233.73	22	1596.00	22	1956.20	22	2370.56	22	2740.16	22	3119.04	22	3508.58	22	3889.58	22	4285.50	22	4677.52	22	5060.76	22	5410.88
23	128.72	23	785.02	23	895.77	23	1240.95	23	1603.51	23	1963.71	23	2380.56	23	2750.16	23	3129.04	23	3519.58	23	3900.58	23	4297.50	23	4690.52	23	5073.76	23	5422.88
24	133.75	24	802.53	24	903.28	24	1248.17	24	1611.02	24	1971.22	24	2390.56	24	2760.16	24	3139.04	24	3530.58	24	3911.58	24	4309.50	24	4703.52	24	5086.76	24	5434.88
25	138.78	25	820.04	25	910.79	25	1255.39	25	1618.53	25	1978.73	25	2400.56	25	2770.16	25	3149.04	25	3541.58	25	3922.58	25	4321.50	25	4716.52	25	5099.76	25	5446.88
26	143.81	26	837.55	26	918.30	26	1262.61	26	1626.04	26	1986.24	26	2410.56	26	2780.16	26	3159.04	26	3552.58	26	3933.58	26	4333.50	26	4729.52	26	5112.76	26	5458.88
27	148.84	27	855.06	27	925.81	27	1269.83	27	1633.55	27	1993.75	27	2420.56	27	2790.16	27	3169.04	27	3563.58	27	3944.58	27	4345.50	27	4742.52	27	5125.76	27	5470.88
28	153.87	28	872.57	28	933.32	28	1277.05	28	1641.06	28	2001.26	28	2430.56	28	2800.16	28	3179.04	28	3574.58	28	3955.58	28	4357.50	28	4755.52	28	5138.76	28	5482.88
29	158.90	29	890.08	29	940.83	29	1284.27	29	1648.57	29	2008.77	29	2440.56	29	2810.16	29	3189.04	29	3585.58	29	3966.58	29	4369.50	29	4768.52	29	5151.76	29	5494.88
30	163.93	30	907.59	30	948.34	30	1291.49	30	1656.08	30	2016.28	30	2450.56	30	2820.16	30	3199.04	30	3596.58	30	3977.58	30	4381.50	30	4781.52	30	5164.76	30	5506.88
31	168.96	31	925.10	31	955.85	31	1298.71	31	1663.59	31	2023.79	31	2460.56	31	2830.16	31	3209.04	31	3607.58	31	3988.58	31	4393.50	31	4794.52	31	5177.76	31	5518.88
32	173.99	32	942.61	32	963.36	32	1305.93	32	1671.10	32	2031.30	32	2470.56	32	2840.16	32	3219.04	32	3618.58	32	3999.58	32	4405.50	32	4807.52	32	5190.76	32	5530.88
33	179.02	33	960.12	33	970.87	33	1313.15	33	1678.61	33	2038.81	33	2480.56	33	2850.16	33	3229.04	33	3629.58	33	4010.58	33	4417.50	33	4820.52	33	5202.76	33	5542.88
34	184.05	34	977.63	34	978.38	34	1320.37	34	1686.12	34	2046.32	34	2490.56	34	2860.16	34	3239.04	34	3640.58	34	4021.58	34	4429.50	34	4833.52	34	5214.76	34	5554.88
35	189.08	35	995.14	35	985.89	35	1327.59	35	1693.63	35	2053.83	35	2500.56	35	2870.16	35	3249.04	35	3651.58	35	4032.58	35	4441.50	35	4846.52	35	5226.76	35	5566.88
36	194.11	36	1012.65	36	993.40	36	1334.81	36	1701.14	36	2061.34	36	2510.56	36	2880.16	36	3259.04	36	3662.58	36	4043.58	36	4453.50	36	4859.52	36	5238.76	36	5578.88
37	199.14	37	1030.16	37	1000.91	37	1342.03	37	1708.65	37	2068.85	37																	



# BARGE "EMS 505"

## 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	3,594.74	0	3,893.00	0	4,183.71	0	4,461.28	0	4,735.83	0	4,910.88	0	5,176.83	0	5,433.28	0	5,680.83	0	5,918.74
1/4	3,601.67	1/4	3,899.16	1/4	4,189.53	1/4	4,466.57	1/4	4,739.60	1/4	4,914.83	1/4	5,179.76	1/4	5,435.69	1/4	5,683.24	1/4	5,920.73
1/2	3,608.41	1/2	3,906.31	1/2	4,196.34	1/2	4,474.85	1/2	4,747.88	1/2	4,922.88	1/2	5,187.81	1/2	5,443.74	1/2	5,691.29	1/2	5,928.78
3/4	3,615.24	3/4	3,913.14	3/4	4,203.17	3/4	4,481.68	3/4	4,754.71	3/4	4,929.71	3/4	5,194.64	3/4	5,450.57	3/4	5,698.12	3/4	5,935.61
1	3,622.08	1	3,920.00	1	4,209.97	1	4,489.57	1	4,762.60	1	4,937.59	1	5,201.52	1	5,457.45	1	5,704.88	1	5,942.55
1 1/4	3,628.23	1 1/4	3,926.15	1 1/4	4,215.74	1 1/4	4,495.72	1 1/4	4,768.75	1 1/4	4,943.74	1 1/4	5,207.67	1 1/4	5,463.60	1 1/4	5,710.99	1 1/4	5,948.69
1 1/2	3,634.39	1 1/2	3,932.31	1 1/2	4,221.51	1 1/2	4,501.88	1 1/2	4,774.90	1 1/2	4,949.89	1 1/2	5,213.82	1 1/2	5,469.75	1 1/2	5,717.14	1 1/2	5,954.84
3/4	3,640.55	3/4	3,938.47	3/4	4,227.29	3/4	4,507.76	3/4	4,780.96	3/4	4,955.95	3/4	5,219.97	3/4	5,475.90	3/4	5,723.29	3/4	5,960.99
2	3,646.70	2	3,944.62	2	4,233.08	2	4,513.61	2	4,787.11	2	4,962.10	2	5,226.12	2	5,482.05	2	5,729.44	2	5,967.14
2 1/4	3,652.86	2 1/4	3,950.78	2 1/4	4,238.79	2 1/4	4,519.34	2 1/4	4,793.26	2 1/4	4,968.22	2 1/4	5,232.27	2 1/4	5,488.20	2 1/4	5,735.59	2 1/4	5,973.29
2 1/2	3,659.02	2 1/2	3,956.94	2 1/2	4,244.51	2 1/2	4,525.08	2 1/2	4,799.41	2 1/2	4,974.36	2 1/2	5,238.42	2 1/2	5,494.35	2 1/2	5,741.74	2 1/2	5,979.44
3/4	3,665.18	3/4	3,963.10	3/4	4,250.24	3/4	4,530.81	3/4	4,805.56	3/4	4,980.51	3/4	5,244.57	3/4	5,500.50	3/4	5,747.89	3/4	5,985.59
3	3,671.33	3	3,969.26	3	4,255.97	3	4,536.54	3	4,811.71	3	4,986.76	3	5,250.65	3	5,506.65	3	5,754.04	3	5,991.74
3 1/4	3,677.49	3 1/4	3,975.41	3 1/4	4,261.66	3 1/4	4,542.28	3 1/4	4,817.86	3 1/4	4,992.91	3 1/4	5,256.80	3 1/4	5,512.80	3 1/4	5,760.19	3 1/4	5,997.89
3 1/2	3,683.65	3 1/2	3,981.57	3 1/2	4,267.35	3 1/2	4,548.01	3 1/2	4,823.91	3 1/2	5,000.00	3 1/2	5,262.95	3 1/2	5,518.95	3 1/2	5,766.38	3 1/2	6,003.98
3/4	3,689.81	3/4	3,987.73	3/4	4,273.08	3/4	4,553.74	3/4	4,829.96	3/4	5,006.05	3/4	5,269.00	3/4	5,525.05	3/4	5,772.57	3/4	6,010.08
4	3,695.96	4	3,993.88	4	4,278.72	4	4,559.48	4	4,836.01	4	5,012.10	4	5,275.10	4	5,531.15	4	5,778.72	4	6,016.18
4 1/4	3,702.12	4 1/4	3,999.99	4 1/4	4,284.36	4 1/4	4,565.21	4 1/4	4,842.11	4 1/4	5,018.20	4 1/4	5,281.20	4 1/4	5,537.25	4 1/4	5,784.82	4 1/4	6,022.33
4 1/2	3,708.28	4 1/2	4,006.15	4 1/2	4,290.00	4 1/2	4,570.95	4 1/2	4,847.85	4 1/2	5,024.30	4 1/2	5,287.30	4 1/2	5,543.35	4 1/2	5,790.92	4 1/2	6,028.44
3/4	3,714.43	3/4	4,012.31	3/4	4,295.64	3/4	4,576.59	3/4	4,853.70	3/4	5,030.40	3/4	5,293.40	3/4	5,549.45	3/4	5,796.97	3/4	6,034.54
5	3,720.59	5	4,018.46	5	4,301.28	5	4,582.33	5	4,859.44	5	5,036.55	5	5,299.55	5	5,555.60	5	5,802.12	5	6,040.65
5 1/4	3,726.75	5 1/4	4,024.62	5 1/4	4,306.92	5 1/4	4,588.08	5 1/4	4,865.19	5 1/4	5,042.70	5 1/4	5,305.70	5 1/4	5,561.75	5 1/4	5,808.27	5 1/4	6,046.75
5 1/2	3,732.91	5 1/2	4,030.78	5 1/2	4,312.56	5 1/2	4,593.83	5 1/2	4,870.94	5 1/2	5,048.85	5 1/2	5,311.85	5 1/2	5,567.90	5 1/2	5,814.42	5 1/2	6,052.85
3/4	3,739.06	3/4	4,036.94	3/4	4,318.20	3/4	4,599.57	3/4	4,877.05	3/4	5,055.00	3/4	5,317.90	3/4	5,573.95	3/4	5,820.47	3/4	6,058.95
6	3,745.22	6	4,043.09	6	4,323.84	6	4,605.21	6	4,883.32	6	5,061.10	6	5,323.95	6	5,580.00	6	5,826.52	6	6,065.05
6 1/4	3,751.38	6 1/4	4,049.25	6 1/4	4,329.48	6 1/4	4,610.96	6 1/4	4,889.47	6 1/4	5,067.20	6 1/4	5,330.00	6 1/4	5,586.05	6 1/4	5,832.57	6 1/4	6,071.15
6 1/2	3,757.54	6 1/2	4,055.41	6 1/2	4,335.12	6 1/2	4,616.69	6 1/2	4,895.61	6 1/2	5,073.35	6 1/2	5,336.10	6 1/2	5,592.10	6 1/2	5,838.62	6 1/2	6,077.25
3/4	3,763.69	3/4	4,061.57	3/4	4,340.76	3/4	4,622.42	3/4	4,901.72	3/4	5,079.50	3/4	5,342.20	3/4	5,598.20	3/4	5,844.72	3/4	6,083.35
7	3,769.85	7	4,067.73	7	4,346.40	7	4,628.16	7	4,907.88	7	5,085.65	7	5,348.30	7	5,604.35	7	5,850.87	7	6,089.45
7 1/4	3,776.01	7 1/4	4,073.89	7 1/4	4,352.04	7 1/4	4,633.91	7 1/4	4,914.02	7 1/4	5,091.80	7 1/4	5,354.40	7 1/4	5,610.45	7 1/4	5,856.97	7 1/4	6,095.55
7 1/2	3,782.17	7 1/2	4,079.99	7 1/2	4,357.68	7 1/2	4,640.05	7 1/2	4,920.16	7 1/2	5,097.90	7 1/2	5,360.50	7 1/2	5,616.55	7 1/2	5,863.07	7 1/2	6,101.65
3/4	3,788.32	3/4	4,086.15	3/4	4,363.32	3/4	4,645.79	3/4	4,926.27	3/4	5,104.00	3/4	5,366.60	3/4	5,622.65	3/4	5,869.17	3/4	6,107.75
8	3,794.48	8	4,092.31	8	4,368.96	8	4,651.52	8	4,932.38	8	5,110.10	8	5,372.70	8	5,628.75	8	5,875.27	8	6,113.85
8 1/4	3,800.64	8 1/4	4,098.47	8 1/4	4,374.60	8 1/4	4,657.26	8 1/4	4,938.52	8 1/4	5,116.25	8 1/4	5,378.85	8 1/4	5,634.90	8 1/4	5,881.42	8 1/4	6,119.95
8 1/2	3,806.79	8 1/2	4,104.63	8 1/2	4,380.24	8 1/2	4,663.01	8 1/2	4,944.67	8 1/2	5,122.40	8 1/2	5,384.95	8 1/2	5,641.00	8 1/2	5,887.52	8 1/2	6,126.05
3/4	3,812.95	3/4	4,110.79	3/4	4,385.88	3/4	4,668.74	3/4	4,950.82	3/4	5,128.55	3/4	5,391.05	3/4	5,647.10	3/4	5,893.62	3/4	6,132.15
9	3,819.11	9	4,116.95	9	4,391.52	9	4,674.48	9	4,956.97	9	5,134.70	9	5,397.20	9	5,653.25	9	5,899.72	9	6,138.25
9 1/4	3,825.27	9 1/4	4,123.11	9 1/4	4,397.16	9 1/4	4,680.21	9 1/4	4,963.11	9 1/4	5,140.85	9 1/4	5,403.35	9 1/4	5,659.40	9 1/4	5,905.82	9 1/4	6,144.35
9 1/2	3,831.42	9 1/2	4,129.27	9 1/2	4,402.80	9 1/2	4,685.85	9 1/2	4,969.26	9 1/2	5,147.00	9 1/2	5,409.50	9 1/2	5,665.55	9 1/2	5,911.92	9 1/2	6,150.45
3/4	3,837.58	3/4	4,135.43	3/4	4,408.44	3/4	4,691.59	3/4	4,975.41	3/4	5,153.15	3/4	5,415.65	3/4	5,671.70	3/4	5,918.02	3/4	6,156.55
10	3,843.74	10	4,141.59	10	4,414.08	10	4,697.33	10	4,981.57	10	5,159.30	10	5,421.80	10	5,677.85	10	5,924.12	10	6,162.65
10 1/4	3,849.90	10 1/4	4,147.75	10 1/4	4,419.72	10 1/4	4,703.07	10 1/4	4,987.71	10 1/4	5,165.45	10 1/4	5,427.95	10 1/4	5,683.90	10 1/4	5,930.22	10 1/4	6,168.75
10 1/2	3,856.06	10 1/2	4,153.91	10 1/2	4,425.36	10 1/2	4,708.81	10 1/2	4,993.86	10 1/2	5,171.60	10 1/2	5,434.10	10 1/2	5,690.05	10 1/2	5,936.32	10 1/2	6,174.85
3/4	3,862.21	3/4	4,160.07	3/4	4,431.00	3/4	4,714.45	3/4	5,000.00	3/4	5,177.75	3/4	5,440.25	3/4	5,696.30	3/4	5,942.42	3/4	6,180.95
11	3,868.37	11	4,166.23	11	4,436.64	11	4,720.09	11	5,006.15	11	5,183.90	11	5,446.40	11	5,702.45	11	5,948.52	11	6,187.05
11 1/4	3,874.52	11 1/4	4,172.39	11 1/4	4,442.28	11 1/4	4,725.73	11 1/4	5,012.30	11 1/4	5,190.05	11 1/4	5,452.55	11 1/4	5,708.60	11 1/4	5,954.62	11 1/4	6,193.15
11 1/2	3,880.68	11 1/2	4,178.55	11 1/2	4,447.92	11 1/2	4,731.37	11 1/2	5,018.45	11 1/2	5,196.20	11 1/2	5,458.70	11 1/2	5,714.75	11 1/2	5,960.72	11 1/2	6,199.25
3/4	3,886.84	3/4	4,184.71	3/4	4,453.56	3/4	4,737.01	3/4	5,024.60	3/4	5,202.35	3/4	5,464.85	3/4	5,720.90	3/4	5,966.82	3/4	6,205.35

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY

STRAPPED: 02/06/2019 BW - JS  
CALCULATED: 02/06/2019 CL  
PRINTED: 02/06/2019 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 02/06/19

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
P.O. Box 2082  
Pearland, Texas 77588  
http://www.precision.net



# BARGE "EMS 505"

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>
1 PORT	- 00-1/4	00-1/4	- 00-3/8	00-3/4	01-0/8	- 01-1/8
1 STBD	- 00-1/8	00-1/8	- 00-1/2	00-3/4	00-7/8	- 01-1/8
2 PORT	- 00-1/8	00-1/4	- 00-3/8	00-1/2	- 00-5/8	- 00-3/4
2 STBD	- 00-1/8	00-1/4	- 00-3/8	00-1/2	- 00-5/8	- 00-3/4
3 PORT	- 00-1/8	00-1/4	- 00-3/8	00-1/2	- 00-5/8	- 00-3/4
3 STBD	- 00-1/8	00-1/4	- 00-3/8	00-1/2	- 00-5/8	- 00-3/4

(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 00-3/8"  
FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 1 PORT, THE TRIM CORRECTED ULLAGE IS 4'-00 3/8"

LENGTH BETWEEN DRAFT MARKS: 238'-06"

February 5, 2019

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

<http://www.pmacorp.net>





**1 PORT**  
**VILLAGE TABLE**

[illegible]

**BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH NIPMS CHAPTER 2.7  
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL  
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK**

HERMETIC POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 37'-03" FORWARD OF AFT BULKHEAD

**PRECISION MEASUREMENT  
& ANALYSIS, INC.**  
P.O. Box 2012  
Portland, Texas 77368  
<http://www.pma-inc.com>

SHEET NO. 1 OF 12

21-700	2,832,181	75	2,801,28
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# BARGE "EMS 505"

## 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	2,684.18	0	2,242.63	0	1,800.89	0	1,359.24	0	1,217.80	0	877.42	0	868.24	0	283.88	0	10.40	0	
14	2,677.06	14	2,236.42	14	1,803.78	14	1,352.13	14	1,210.48	14	870.48	14	861.30	14	287.00	14		14	
12	2,669.93	12	2,229.30	12	1,806.66	12	1,345.01	12	1,203.36	12	863.43	12	854.25	12	290.12	12		12	
34	2,662.81	34	2,222.18	34	1,809.54	34	1,337.89	34	1,196.24	34	856.58	34	847.50	34	293.24	34		34	
1	2,655.68	1	2,215.06	1	1,812.42	1	1,330.77	1	1,189.12	1	849.73	1	840.65	1	296.36	1		1	
14	2,648.56	14	2,207.94	14	1,815.30	14	1,323.65	14	1,182.00	14	842.88	14	833.80	14	299.48	14		14	
12	2,641.44	12	2,200.82	12	1,818.18	12	1,316.53	12	1,174.88	12	836.03	12	827.05	12	302.60	12		12	
34	2,634.32	34	2,193.70	34	1,821.06	34	1,309.41	34	1,167.76	34	829.18	34	819.35	34	305.72	34		34	
2	2,627.20	2	2,186.58	2	1,823.94	2	1,302.29	2	1,160.64	2	822.33	2	812.50	2	308.84	2		2	
14	2,620.08	14	2,179.46	14	1,826.82	14	1,295.17	14	1,153.52	14	815.48	14	805.65	14	311.96	14		14	
12	2,612.96	12	2,172.34	12	1,829.70	12	1,288.05	12	1,146.40	12	808.60	12	798.77	12	315.08	12		12	
34	2,605.84	34	2,165.22	34	1,832.58	34	1,280.93	34	1,139.28	34	801.72	34	791.89	34	318.20	34		34	
3	2,598.72	3	2,158.10	3	1,835.46	3	1,273.81	3	1,132.16	3	794.84	3	784.91	3	321.32	3		3	
14	2,591.60	14	2,150.98	14	1,838.34	14	1,266.69	14	1,125.04	14	787.96	14	778.03	14	324.44	14		14	
12	2,584.48	12	2,143.86	12	1,841.22	12	1,259.57	12	1,117.92	12	781.12	12	771.19	12	327.56	12		12	
34	2,577.36	34	2,136.74	34	1,844.10	34	1,252.45	34	1,110.80	34	774.28	34	764.28	34	330.68	34		34	
4	2,570.24	4	2,129.62	4	1,846.98	4	1,245.33	4	1,103.68	4	767.44	4	757.51	4	333.80	4		4	
14	2,563.12	14	2,122.50	14	1,849.86	14	1,238.21	14	1,096.56	14	760.60	14	750.71	14	336.92	14		14	
12	2,556.00	12	2,115.38	12	1,852.74	12	1,231.09	12	1,089.44	12	753.76	12	743.87	12	340.04	12		12	
34	2,548.88	34	2,108.26	34	1,855.62	34	1,223.97	34	1,082.32	34	746.92	34	737.03	34	343.16	34		34	
5	2,541.76	5	2,101.14	5	1,858.50	5	1,216.85	5	1,075.20	5	740.08	5	730.19	5	346.28	5		5	
14	2,534.64	14	2,094.02	14	1,861.38	14	1,209.73	14	1,068.08	14	733.35	14	723.35	14	349.40	14		14	
12	2,527.52	12	2,086.90	12	1,864.26	12	1,202.61	12	1,060.96	12	726.51	12	716.51	12	352.52	12		12	
34	2,520.40	34	2,079.78	34	1,867.14	34	1,195.49	34	1,053.84	34	719.67	34	709.67	34	355.64	34		34	
6	2,513.28	6	2,072.66	6	1,870.02	6	1,188.37	6	1,046.72	6	712.83	6	702.83	6	358.76	6		6	
14	2,506.16	14	2,065.54	14	1,872.90	14	1,181.25	14	1,039.60	14	706.00	14	696.00	14	361.88	14		14	
12	2,499.04	12	2,058.42	12	1,875.78	12	1,174.13	12	1,032.48	12	699.16	12	689.16	12	365.00	12		12	
34	2,491.92	34	2,051.30	34	1,878.66	34	1,167.01	34	1,025.36	34	692.32	34	682.32	34	368.12	34		34	
7	2,484.80	7	2,044.18	7	1,881.54	7	1,160.00	7	1,018.24	7	685.48	7	675.48	7	371.24	7		7	
14	2,477.68	14	2,037.06	14	1,884.42	14	1,152.88	14	1,011.12	14	678.64	14	668.64	14	374.36	14		14	
12	2,470.56	12	2,029.94	12	1,887.30	12	1,145.76	12	1,004.00	12	671.80	12	661.80	12	377.48	12		12	
34	2,463.44	34	2,022.82	34	1,890.18	34	1,138.64	34	996.88	34	665.00	34	655.00	34	380.60	34		34	
8	2,456.32	8	2,015.70	8	1,893.06	8	1,131.52	8	989.76	8	658.16	8	648.16	8	383.72	8		8	
14	2,449.20	14	2,008.58	14	1,895.94	14	1,124.40	14	982.64	14	651.32	14	641.32	14	386.84	14		14	
12	2,442.08	12	2,001.46	12	1,898.82	12	1,117.28	12	975.52	12	644.48	12	634.48	12	390.00	12		12	
34	2,434.96	34	1,994.34	34	1,901.70	34	1,110.16	34	968.40	34	637.64	34	627.64	34	393.12	34		34	
9	2,427.84	9	1,987.22	9	1,904.58	9	1,103.04	9	961.28	9	630.80	9	620.80	9	396.24	9		9	
14	2,420.72	14	1,980.10	14	1,907.46	14	1,095.92	14	954.16	14	623.96	14	613.96	14	399.36	14		14	
12	2,413.60	12	1,972.98	12	1,910.34	12	1,088.80	12	947.04	12	617.12	12	607.12	12	402.48	12		12	
34	2,406.48	34	1,965.86	34	1,913.22	34	1,081.68	34	940.00	34	610.28	34	600.28	34	405.60	34		34	
10	2,399.36	10	1,958.74	10	1,916.10	10	1,074.56	10	932.88	10	603.44	10	593.44	10	408.72	10		10	
14	2,392.24	14	1,951.62	14	1,918.98	14	1,067.44	14	925.76	14	596.60	14	586.60	14	411.84	14		14	
12	2,385.12	12	1,944.50	12	1,921.86	12	1,060.32	12	918.64	12	589.76	12	579.76	12	414.96	12		12	
34	2,378.00	34	1,937.38	34	1,924.74	34	1,053.20	34	911.52	34	582.92	34	572.92	34	418.08	34		34	
11	2,370.88	11	1,930.26	11	1,927.62	11	1,046.08	11	904.40	11	576.08	11	566.08	11	421.20	11		11	
14	2,363.76	14	1,923.14	14	1,930.50	14	1,038.96	14	897.28	14	569.24	14	559.24	14	424.32	14		14	
12	2,356.64	12	1,916.02	12	1,933.38	12	1,031.84	12	890.16	12	562.40	12	552.40	12	427.44	12		12	
34	2,349.52	34	1,908.90	34	1,936.26	34	1,024.72	34	883.04	34	555.28	34	545.28	34	430.56	34		34	
12	2,342.40	12	1,901.78	12	1,939.14	12	1,017.60	12	875.92	12	548.44	12	538.44	12	433.68	12		12	
34	2,335.28	34	1,894.66	34	1,942.02	34	1,010.48	34	868.80	34	541.60	34	531.60	34	436.80	34		34	
13	2,328.16	13	1,887.54	13	1,944.90	13	1,003.36	13	861.68	13	534.76	13	524.76	13	439.92	13		13	
14	2,321.04	14	1,880.42	14	1,947.78	14	996.24	14	854.56	14	527.92	14	517.92	14	443.04	14		14	
12	2,313.92	12	1,873.30	12	1,950.66	12	989.12	12	847.44	12	521.08	12	511.08	12	446.16	12		12	
34	2,306.80	34	1,866.18	34	1,953.54	34	982.00	34	840.32	34	514.24	34	504.24	34	449.28	34		34	
10	2,299.68	10	1,859.06	10	1,956.42	10	974.88	10	833.20	10	507.40	10	497.40	10	452.40	10		10	
14	2,292.56	14	1,851.94	14	1,959.30	14	967.76	14	826.08	14	500.56	14	490.56	14	455.52	14		14	
12	2,285.44	12	1,844.82	12	1,962.18	12	960.64	12	818.96	12	493.72	12	483.72	12	458.64	12		12	
34	2,278.32	34	1,837.70	34	1,965.06	34	953.52	34	811.84	34	487.00	34	476.00	34	461.76	34		34	
11	2,271.20	11	1,830.58	11	1,967.94	11	946.40	11	804.72	11	480.16	11	470.16	11	464.88	11		11	
14	2,264.08	14	1,823.46	14	1,970.82	14	939.28	14	797.60	14	473.32	14	463.32	14	468.00	14		14	
12	2,256.96	12	1,816.34	12	1,973.70	12	932.16	12	790.48	12	466.48	12	456.48	12	471.12	12		12	
34	2,249.84	34	1,809.22	34	1,976.58	34	925.04	34	783.36	34	459.64	34	449.64	34	474.24	34		34	

STRAPPED: 02/08/2018 BW - JS  
CALCULATED: 02/08/2018 CL  
PRINTED: 02/08/2018 CL

CANCELLED AND SUPERCEDES  
ALL PRIOR TO 02/2018

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
P.O. Box 2082  
Pearland, Texas 77588  
http://www.precisioninc.com

*R. J. Jones*

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.



**1 STBD**  
**ULLAGE TABLE**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS										GAUGE HEIGHT 17'-11 1/2"									
IN		0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.	
IN	0'	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
0	0	0	4,803.70	0	4,536.23	0	4,243.47	0	3,927.72	0	3,590.61	0	3,248.30	0	2,893.08	0	2,530.99	0	2,161.88
1	14	14	4,796.36	14	4,528.89	14	4,236.13	14	3,920.38	14	3,583.40	14	3,241.19	14	2,885.97	14	2,523.88	14	2,154.77
2	28	28	4,789.02	28	4,521.55	28	4,228.79	28	3,913.04	28	3,576.06	28	3,233.85	28	2,878.64	28	2,516.55	28	2,147.44
3	42	42	4,781.68	42	4,514.21	42	4,221.45	42	3,905.70	42	3,568.72	42	3,226.51	42	2,872.30	42	2,510.21	42	2,140.33
4	56	56	4,774.34	56	4,506.87	56	4,214.11	56	3,898.36	56	3,561.38	56	3,219.17	56	2,864.96	56	2,506.87	56	2,133.04
5	70	70	4,766.99	70	4,499.52	70	4,206.77	70	3,890.26	70	3,553.28	70	3,211.07	70	2,856.86	70	2,502.77	70	2,125.11
6	84	84	4,759.65	84	4,492.18	84	4,200.43	84	3,882.90	84	3,545.92	84	3,203.71	84	2,849.50	84	2,495.41	84	2,117.25
7	98	98	4,752.31	98	4,484.83	98	4,193.09	98	3,875.56	98	3,538.58	98	3,196.37	98	2,842.16	98	2,488.07	98	2,109.39
8	112	112	4,744.97	112	4,477.49	112	4,185.85	112	3,868.32	112	3,531.34	112	3,189.13	112	2,834.92	112	2,480.83	112	2,101.51
9	126	126	4,737.63	126	4,470.15	126	4,178.51	126	3,860.98	126	3,524.00	126	3,181.79	126	2,827.58	126	2,473.64	126	2,093.09
10	140	140	4,730.29	140	4,462.81	140	4,171.17	140	3,853.64	140	3,516.82	140	3,174.61	140	2,820.37	140	2,465.70	140	2,084.69
11	154	154	4,722.95	154	4,455.47	154	4,163.83	154	3,846.30	154	3,509.46	154	3,167.25	154	2,813.04	154	2,457.31	154	2,076.27
12	168	168	4,715.61	168	4,448.13	168	4,156.49	168	3,838.96	168	3,502.12	168	3,159.91	168	2,805.70	168	2,448.88	168	2,067.85
13	182	182	4,708.27	182	4,440.79	182	4,149.15	182	3,831.62	182	3,494.78	182	3,152.50	182	2,798.49	182	2,441.45	182	2,059.41
14	196	196	4,700.93	196	4,433.45	196	4,141.81	196	3,824.28	196	3,487.44	196	3,145.16	196	2,791.08	196	2,434.01	196	2,051.42
15	210	210	4,693.59	210	4,426.11	210	4,134.47	210	3,816.94	210	3,480.10	210	3,137.81	210	2,783.67	210	2,426.57	210	2,043.43
16	224	224	4,686.25	224	4,418.77	224	4,127.13	224	3,809.60	224	3,472.76	224	3,130.47	224	2,776.32	224	2,419.12	224	2,035.44
17	238	238	4,678.91	238	4,411.43	238	4,119.79	238	3,802.26	238	3,465.40	238	3,123.13	238	2,768.98	238	2,411.78	238	2,027.45
18	252	252	4,671.57	252	4,404.09	252	4,112.45	252	3,794.92	252	3,458.06	252	3,115.79	252	2,761.64	252</			

2014	2013	2012	2011	2010	2009	2008	2007	2006	2005	2004	2003	2002	2001	2000	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975	1974	1973	1972	1971	1970	1969	1968	1967	1966	1965	1964	1963	1962	1961	1960	1959	1958	1957	1956	1955	1954	1953	1952	1951	1950	1949	1948	1947	1946	1945	1944	1943	1942	1941	1940	1939	1938	1937	1936	1935	1934	1933	1932	1931	1930	1929	1928	1927	1926	1925	1924	1923	1922	1921	1920	1919	1918	1917	1916	1915	1914	1913	1912	1911	1910	1909	1908	1907	1906	1905	1904	1903	1902	1901	1900	1899	1898	1897	1896	1895	1894	1893	1892	1891	1890	1889	1888	1887	1886	1885	1884	1883	1882	1881	1880	1879	1878	1877	1876	1875	1874	1873	1872	1871	1870	1869	1868	1867	1866	1865	1864	1863	1862	1861	1860	1859	1858	1857	1856	1855	1854	1853	1852	1851	1850	1849	1848	1847	1846	1845	1844	1843	1842	1841	1840	1839	1838	1837	1836	1835	1834	1833	1832	1831	1830	1829	1828	1827	1826	1825	1824	1823	1822	1821	1820	1819	1818	1817	1816	1815	1814	1813	1812	1811	1810	1809	1808	1807	1806	1805	1804	1803	1802	1801	1800	1799	1798	1797	1796	1795	1794	1793	1792	1791	1790	1789	1788	1787	1786	1785	1784	1783	1782	1781	1780	1779	1778	1777	1776	1775	1774	1773	1772	1771	1770	1769	1768	1767	1766	1765	1764	1763	1762	1761	1760	1759	1758	1757	1756	1755	1754	1753	1752	1751	1750	1749	1748	1747	1746	1745	1744	1743	1742	1741	1740	1739	1738	1737	1736	1735	1734	1733	1732	1731	1730	1729	1728	1727	1726	1725	1724	1723	1722	1721	1720	1719	1718	1717	1716	1715	1714	1713	1712	1711	1710	1709	1708	1707	1706	1705	1704	1703	1702	1701	1700	1699	1698	1697	1696	1695	1694	1693	1692	1691	1690	1689	1688	1687	1686	1685	1684	1683	1682	1681	1680	1679	1678	1677	1676	1675	1674	1673	1672	1671	1670	1669	1668	1667	1666	1665	1664	1663	1662	1661	1660	1659	1658	1657	1656	1655	1654	1653	1652	1651	1650	1649	1648	1647	1646	1645	1644	1643	1642	1641	1640	1639	1638	1637	1636	1635	1634	1633	1632	1631	1630	1629	1628	1627	1626	1625	1624	1623	1622	1621	1620	1619	1618	1617	1616	1615	1614	1613	1612	1611	1610	1609	1608	1607	1606</
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BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH NPM'S CHAPTER 2.7

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL  
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK  
CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE  
(GAUGE POINT: (HERMETIC) LOCATED 17'-08" OFF CENTERLINE AND 37'-03" FORWARD OF AFT BULKHEAD

**PRECISION MEASUREMENT  
& ANALYSIS, INC.**  
P.O. Box 2067  
Pearland, Texas 77588  
<http://www.pma-inc.com>

**SHEET NO. 3 OF 12**





# BARGE "EMS 505"

## 1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

10 FT.		11 FT.		12 FT.		13 FT.		14 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
0	2,066.90	0	2,226.71	0	1,884.60	0	1,843.29	0	1,202.08	0	862.88	0	261.92	0	0	0	0
1/4	2,069.79	1/4	2,218.80	1/4	1,877.39	1/4	1,836.18	1/4	1,194.97	1/4	856.72	1/4	248.18	1/4	1/4	1/4	1/4
1/2	2,072.68	1/2	2,211.48	1/2	1,870.28	1/2	1,829.07	1/2	1,187.86	1/2	850.56	1/2	240.61	1/2	1/2	1/2	1/2
3/4	2,075.58	3/4	2,203.35	3/4	1,863.18	3/4	1,821.96	3/4	1,180.76	3/4	844.40	3/4	234.70	3/4	3/4	3/4	3/4
1	2,078.47	1	2,197.27	1	1,856.07	1	1,814.84	1	1,173.64	1	838.24	1	228.89	1	1	1	1
1 1/4	2,081.36	1 1/4	2,190.17	1 1/4	1,848.96	1 1/4	1,807.76	1 1/4	1,166.53	1 1/4	832.08	1 1/4	223.08	1 1/4	1 1/4	1 1/4	1 1/4
1 1/2	2,084.26	1 1/2	2,183.06	1 1/2	1,841.86	1 1/2	1,800.64	1 1/2	1,159.42	1 1/2	825.92	1 1/2	217.27	1 1/2	1 1/2	1 1/2	1 1/2
1 3/4	2,087.14	1 3/4	2,175.98	1 3/4	1,834.74	1 3/4	1,793.53	1 3/4	1,152.32	1 3/4	819.76	1 3/4	211.46	1 3/4	1 3/4	1 3/4	1 3/4
2	2,090.03	2	2,168.84	2	1,827.62	2	1,786.42	2	1,145.21	2	813.60	2	205.65	2	2	2	2
2 1/4	2,092.93	2 1/4	2,161.73	2 1/4	1,820.52	2 1/4	1,779.31	2 1/4	1,138.10	2 1/4	807.44	2 1/4	199.84	2 1/4	2 1/4	2 1/4	2 1/4
2 1/2	2,095.82	2 1/2	2,154.62	2 1/2	1,813.42	2 1/2	1,772.20	2 1/2	1,130.99	2 1/2	801.28	2 1/2	194.03	2 1/2	2 1/2	2 1/2	2 1/2
2 3/4	2,098.71	2 3/4	2,147.52	2 3/4	1,806.31	2 3/4	1,765.09	2 3/4	1,123.88	2 3/4	795.12	2 3/4	188.22	2 3/4	2 3/4	2 3/4	2 3/4
3	2,101.60	3	2,140.41	3	1,799.20	3	1,757.98	3	1,116.77	3	789.00	3	182.41	3	3	3	3
3 1/4	2,104.49	3 1/4	2,133.30	3 1/4	1,792.09	3 1/4	1,750.88	3 1/4	1,109.66	3 1/4	782.88	3 1/4	176.60	3 1/4	3 1/4	3 1/4	3 1/4
3 1/2	2,107.38	3 1/2	2,126.19	3 1/2	1,784.98	3 1/2	1,743.77	3 1/2	1,102.55	3 1/2	776.76	3 1/2	170.79	3 1/2	3 1/2	3 1/2	3 1/2
3 3/4	2,110.27	3 3/4	2,119.08	3 3/4	1,777.87	3 3/4	1,736.66	3 3/4	1,095.44	3 3/4	770.64	3 3/4	164.98	3 3/4	3 3/4	3 3/4	3 3/4
4	2,113.16	4	2,111.88	4	1,770.76	4	1,729.55	4	1,088.33	4	764.52	4	159.17	4	4	4	4
4 1/4	2,116.05	4 1/4	2,104.67	4 1/4	1,763.66	4 1/4	1,722.44	4 1/4	1,081.22	4 1/4	758.40	4 1/4	153.36	4 1/4	4 1/4	4 1/4	4 1/4
4 1/2	2,118.94	4 1/2	2,097.56	4 1/2	1,756.55	4 1/2	1,715.33	4 1/2	1,074.11	4 1/2	752.28	4 1/2	147.55	4 1/2	4 1/2	4 1/2	4 1/2
4 3/4	2,121.83	4 3/4	2,090.45	4 3/4	1,749.44	4 3/4	1,708.22	4 3/4	1,067.00	4 3/4	746.16	4 3/4	141.74	4 3/4	4 3/4	4 3/4	4 3/4
5	2,124.72	5	2,083.34	5	1,742.33	5	1,701.12	5	1,059.89	5	740.04	5	135.93	5	5	5	5
5 1/4	2,127.61	5 1/4	2,076.23	5 1/4	1,735.22	5 1/4	1,694.01	5 1/4	1,052.78	5 1/4	733.92	5 1/4	130.12	5 1/4	5 1/4	5 1/4	5 1/4
5 1/2	2,130.50	5 1/2	2,069.12	5 1/2	1,728.11	5 1/2	1,686.90	5 1/2	1,045.67	5 1/2	727.80	5 1/2	124.31	5 1/2	5 1/2	5 1/2	5 1/2
5 3/4	2,133.39	5 3/4	2,062.01	5 3/4	1,721.00	5 3/4	1,679.79	5 3/4	1,038.56	5 3/4	721.68	5 3/4	118.50	5 3/4	5 3/4	5 3/4	5 3/4
6	2,136.28	6	2,054.90	6	1,713.89	6	1,672.68	6	1,031.45	6	715.56	6	112.69	6	6	6	6
6 1/4	2,139.17	6 1/4	2,047.79	6 1/4	1,706.78	6 1/4	1,665.57	6 1/4	1,024.34	6 1/4	709.44	6 1/4	106.88	6 1/4	6 1/4	6 1/4	6 1/4
6 1/2	2,142.06	6 1/2	2,040.68	6 1/2	1,699.67	6 1/2	1,658.46	6 1/2	1,017.23	6 1/2	703.32	6 1/2	101.07	6 1/2	6 1/2	6 1/2	6 1/2
6 3/4	2,144.95	6 3/4	2,033.57	6 3/4	1,692.56	6 3/4	1,651.35	6 3/4	1,010.12	6 3/4	697.20	6 3/4	95.26	6 3/4	6 3/4	6 3/4	6 3/4
7	2,147.84	7	2,026.46	7	1,685.45	7	1,644.24	7	1,003.01	7	691.08	7	89.45	7	7	7	7
7 1/4	2,150.73	7 1/4	2,019.35	7 1/4	1,678.34	7 1/4	1,637.13	7 1/4	995.90	7 1/4	684.96	7 1/4	83.64	7 1/4	7 1/4	7 1/4	7 1/4
7 1/2	2,153.62	7 1/2	2,012.24	7 1/2	1,671.23	7 1/2	1,630.02	7 1/2	988.79	7 1/2	678.84	7 1/2	77.83	7 1/2	7 1/2	7 1/2	7 1/2
7 3/4	2,156.51	7 3/4	2,005.13	7 3/4	1,664.12	7 3/4	1,622.91	7 3/4	981.68	7 3/4	672.72	7 3/4	72.02	7 3/4	7 3/4	7 3/4	7 3/4
8	2,159.40	8	1,998.02	8	1,657.01	8	1,615.80	8	974.57	8	666.60	8	66.21	8	8	8	8
8 1/4	2,162.29	8 1/4	1,990.91	8 1/4	1,649.90	8 1/4	1,608.69	8 1/4	967.46	8 1/4	660.48	8 1/4	60.40	8 1/4	8 1/4	8 1/4	8 1/4
8 1/2	2,165.18	8 1/2	1,983.80	8 1/2	1,642.79	8 1/2	1,601.58	8 1/2	960.35	8 1/2	654.36	8 1/2	54.59	8 1/2	8 1/2	8 1/2	8 1/2
8 3/4	2,168.07	8 3/4	1,976.69	8 3/4	1,635.68	8 3/4	1,594.47	8 3/4	953.24	8 3/4	648.24	8 3/4	48.78	8 3/4	8 3/4	8 3/4	8 3/4
9	2,170.96	9	1,969.58	9	1,628.57	9	1,587.36	9	946.13	9	642.12	9	42.97	9	9	9	9
9 1/4	2,173.85	9 1/4	1,962.47	9 1/4	1,621.46	9 1/4	1,580.25	9 1/4	939.02	9 1/4	636.00	9 1/4	37.16	9 1/4	9 1/4	9 1/4	9 1/4
9 1/2	2,176.74	9 1/2	1,955.36	9 1/2	1,614.35	9 1/2	1,573.14	9 1/2	931.91	9 1/2	629.88	9 1/2	31.35	9 1/2	9 1/2	9 1/2	9 1/2
9 3/4	2,179.63	9 3/4	1,948.25	9 3/4	1,607.24	9 3/4	1,566.03	9 3/4	924.80	9 3/4	623.76	9 3/4	25.54	9 3/4	9 3/4	9 3/4	9 3/4
10	2,182.52	10	1,941.14	10	1,600.13	10	1,558.92	10	917.69	10	617.64	10	19.73	10	10	10	10
10 1/4	2,185.41	10 1/4	1,934.03	10 1/4	1,593.02	10 1/4	1,551.81	10 1/4	910.58	10 1/4	611.52	10 1/4	13.92	10 1/4	10 1/4	10 1/4	10 1/4
10 1/2	2,188.30	10 1/2	1,926.92	10 1/2	1,585.91	10 1/2	1,544.70	10 1/2	903.47	10 1/2	605.40	10 1/2	8.11	10 1/2	10 1/2	10 1/2	10 1/2
10 3/4	2,191.19	10 3/4	1,919.81	10 3/4	1,578.80	10 3/4	1,537.59	10 3/4	896.36	10 3/4	599.28	10 3/4	2.30	10 3/4	10 3/4	10 3/4	10 3/4
11	2,194.08	11	1,912.70	11	1,571.69	11	1,530.48	11	889.25	11	593.16	11	0.00	11	11	11	11
11 1/4	2,196.97	11 1/4	1,905.59	11 1/4	1,564.58	11 1/4	1,523.37	11 1/4	882.14	11 1/4	587.04	11 1/4	0.00	11 1/4	11 1/4	11 1/4	11 1/4
11 1/2	2,199.86	11 1/2	1,898.48	11 1/2	1,557.47	11 1/2	1,516.26	11 1/2	875.03	11 1/2	580.92	11 1/2	0.00	11 1/2	11 1/2	11 1/2	11 1/2
11 3/4	2,202.75	11 3/4	1,891.37	11 3/4	1,550.36	11 3/4	1,509.15	11 3/4	867.92	11 3/4	574.80	11 3/4	0.00	11 3/4	11 3/4	11 3/4	11 3/4
12	2,205.64	12	1,884.26	12	1,543.25	12	1,502.04	12	860.81	12	568.68	12	0.00	12	12	12	12
12 1/4	2,208.53	12 1/4	1,877.15	12 1/4	1,536.14	12 1/4	1,494.93	12 1/4	853.70	12 1/4	562.56	12 1/4	0.00	12 1/4	12 1/4	12 1/4	12 1/4
12 1/2	2,211.42	12 1/2	1,870.04	12 1/2	1,529.03	12 1/2	1,487.82	12 1/2	846.59	12 1/2	556.44	12 1/2	0.00	12 1/2	12 1/2	12 1/2	12 1/2
12 3/4	2,214.31	12 3/4	1,862.93	12 3/4	1,521.92	12 3/4	1,480.71	12 3/4	839.48	12 3/4	550.32	12 3/4	0.00	12 3/4	12 3/4	12 3/4	12 3/4
13	2,217.20	13	1,855.82	13	1,514.81	13	1,473.60	13	832.37	13	544.20	13	0.00	13	13	13	13
13 1/4	2,220.09	13 1/4	1,848.71	13 1/4	1,507.70	13 1/4	1,466.49	13 1/4	825.26	13 1/4	538.08	13 1/4	0.00	13 1/4	13 1/4	13 1/4	13 1/4
13 1/2	2,222.98	13 1/2	1,841.60	13 1/2	1,500.59	13 1/2	1,459.38	13 1/2	818.15	13 1/2	531.96	13 1/2	0.00	13 1/2	13 1/2	13 1/2	13 1/2
13 3/4	2,225.87	13 3/4	1,834.49	13 3/4	1,493.48	13 3/4	1,452.27	13 3/4	811.04	13 3/4							



**2 PORT  
VILLAGE TABLE**

GAUGE HEIGHT 18'-00 1/2"

[illegible]

DATE	DESCRIPTION	AMOUNT	BALANCE
3/10/43	34		

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY

**LARGE STRIPPED AND COMBINED IN ACCORDANCE WITH: HENRI CHAUVIN, 20**

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

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

CAPACITY TABLE ONLY APPLIED TO VLLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE  
GAUGE POINT: (HERMETIC) LOCATED 12'-00" OFF CENTER LINE AND 41'-00" FORWARD OF SET SILL WATER

**12-70 OFF-CENTLINE AND 44-70 FORWARD OF AFT BULKHEAD**

**THE UNIVERSITY OF CHICAGO PRESS**

**SHEET NO. 5 OF 12**

**PRECISION MEASUREMENT  
& ANALYSIS, INC.**  
P.O. Box 2042  
Pearland, Texas 77581  
409/266-2222, 266-2221



# BARGE "EMS 505"

## 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	3,108.36	0	2,720.86	0	2,333.34	0	1,945.81	0	1,558.28	0	1,170.76	0	783.46	0	395.06	0	18.29	0	
1/4	3,100.29	1/4	2,712.78	1/4	2,325.27	1/4	1,937.74	1/4	1,550.21	1/4	1,162.88	1/4	775.38	1/4	387.97	1/4	13.81	1/4	
1/2	3,092.21	1/2	2,704.70	1/2	2,317.19	1/2	1,929.66	1/2	1,542.14	1/2	1,154.81	1/2	767.32	1/2	379.90	1/2	9.34	1/2	
3/4	3,084.14	3/4	2,696.63	3/4	2,309.12	3/4	1,921.59	3/4	1,534.06	3/4	1,146.74	3/4	759.24	3/4	371.83	3/4	4.87	3/4	
1	3,076.07	1	2,688.56	1	2,301.05	1	1,913.52	1	1,525.99	1	1,138.66	1	751.20	1	363.76	1	0.40	1	
1 1/4	3,067.99	1 1/4	2,680.48	1 1/4	2,292.97	1 1/4	1,905.44	1 1/4	1,517.92	1 1/4	1,130.58	1 1/4	743.13	1 1/4	355.68	1 1/4		1 1/4	
1 1/2	3,059.92	1 1/2	2,672.41	1 1/2	2,284.90	1 1/2	1,897.37	1 1/2	1,509.84	1 1/2	1,122.51	1 1/2	735.07	1 1/2	347.61	1 1/2		1 1/2	
3/4	3,051.85	3/4	2,664.34	3/4	2,276.83	3/4	1,889.30	3/4	1,501.77	3/4	1,114.44	3/4	727.01	3/4	339.53	3/4		3/4	
2	3,043.77	2	2,656.27	2	2,268.76	2	1,881.22	2	1,493.69	2	1,106.37	2	718.94	2	331.46	2		2	
1 3/4	3,035.70	1 3/4	2,648.19	1 3/4	2,260.69	1 3/4	1,873.15	1 3/4	1,485.62	1 3/4	1,098.29	1 3/4	710.88	1 3/4	323.39	1 3/4		1 3/4	
1 1/2	3,027.63	1 1/2	2,640.12	1 1/2	2,252.62	1 1/2	1,865.08	1 1/2	1,477.55	1 1/2	1,090.22	1 1/2	702.81	1 1/2	315.31	1 1/2		1 1/2	
3/4	3,019.56	3/4	2,632.05	3/4	2,244.55	3/4	1,857.01	3/4	1,469.48	3/4	1,082.15	3/4	694.76	3/4	307.24	3/4		3/4	
3	3,011.48	3	2,623.97	3	2,236.48	3	1,848.93	3	1,461.40	3	1,074.07	3	686.68	3	299.17	3		3	
1 1/4	3,003.41	1 1/4	2,615.90	1 1/4	2,228.41	1 1/4	1,840.86	1 1/4	1,453.33	1 1/4	1,066.00	1 1/4	678.61	1 1/4	291.10	1 1/4		1 1/4	
1 1/2	2,995.34	1 1/2	2,607.83	1 1/2	2,220.34	1 1/2	1,832.78	1 1/2	1,445.26	1 1/2	1,057.93	1 1/2	670.54	1 1/2	283.02	1 1/2		1 1/2	
3/4	2,987.26	3/4	2,599.76	3/4	2,212.27	3/4	1,824.71	3/4	1,437.18	3/4	1,049.86	3/4	662.47	3/4	274.95	3/4		3/4	
4	2,979.19	4	2,591.69	4	2,204.19	4	1,816.64	4	1,429.11	4	1,041.79	4	654.39	4	266.87	4		4	
1 3/4	2,971.12	1 3/4	2,583.61	1 3/4	2,196.12	1 3/4	1,808.56	1 3/4	1,421.03	1 3/4	1,033.71	1 3/4	646.32	1 3/4	258.80	1 3/4		1 3/4	
1 1/2	2,963.04	1 1/2	2,575.54	1 1/2	2,188.05	1 1/2	1,800.49	1 1/2	1,412.96	1 1/2	1,025.63	1 1/2	638.25	1 1/2	250.73	1 1/2		1 1/2	
3/4	2,954.97	3/4	2,567.47	3/4	2,179.97	3/4	1,792.42	3/4	1,404.89	3/4	1,017.56	3/4	630.17	3/4	242.65	3/4		3/4	
5	2,946.90	5	2,559.40	5	2,171.90	5	1,784.34	5	1,396.81	5	1,009.49	5	622.10	5	234.58	5		5	
1 1/4	2,938.82	1 1/4	2,551.32	1 1/4	2,163.83	1 1/4	1,776.27	1 1/4	1,388.74	1 1/4	1,001.41	1 1/4	614.03	1 1/4	226.51	1 1/4		1 1/4	
1 1/2	2,930.75	1 1/2	2,543.25	1 1/2	2,155.76	1 1/2	1,768.19	1 1/2	1,380.67	1 1/2	993.34	1 1/2	605.96	1 1/2	218.44	1 1/2		1 1/2	
3/4	2,922.68	3/4	2,535.18	3/4	2,147.69	3/4	1,760.12	3/4	1,372.60	3/4	985.27	3/4	597.89	3/4	210.36	3/4		3/4	
6	2,914.60	6	2,527.10	6	2,139.62	6	1,752.05	6	1,364.52	6	977.20	6	589.81	6	202.29	6		6	
1 3/4	2,906.53	1 3/4	2,519.03	1 3/4	2,131.55	1 3/4	1,743.97	1 3/4	1,356.45	1 3/4	969.12	1 3/4	581.73	1 3/4	194.22	1 3/4		1 3/4	
1 1/2	2,898.46	1 1/2	2,510.96	1 1/2	2,123.48	1 1/2	1,735.90	1 1/2	1,348.37	1 1/2	961.05	1 1/2	573.66	1 1/2	186.14	1 1/2		1 1/2	
3/4	2,890.39	3/4	2,502.89	3/4	2,115.41	3/4	1,727.83	3/4	1,340.30	3/4	952.98	3/4	565.58	3/4	178.07	3/4		3/4	
7	2,882.31	7	2,494.81	7	2,107.34	7	1,719.76	7	1,332.23	7	944.91	7	557.51	7	170.00	7		7	
1 1/4	2,874.24	1 1/4	2,486.74	1 1/4	2,099.27	1 1/4	1,711.69	1 1/4	1,324.16	1 1/4	936.84	1 1/4	549.44	1 1/4	161.92	1 1/4		1 1/4	
1 1/2	2,866.17	1 1/2	2,478.67	1 1/2	2,091.20	1 1/2	1,703.61	1 1/2	1,316.09	1 1/2	928.77	1 1/2	541.37	1 1/2	153.85	1 1/2		1 1/2	
3/4	2,858.10	3/4	2,470.60	3/4	2,083.13	3/4	1,695.53	3/4	1,308.01	3/4	920.70	3/4	533.30	3/4	145.78	3/4		3/4	
8	2,850.02	8	2,462.52	8	2,075.06	8	1,687.46	8	1,299.93	8	912.66	8	525.22	8	137.70	8		8	
1 3/4	2,841.95	1 3/4	2,454.44	1 3/4	2,066.99	1 3/4	1,679.39	1 3/4	1,291.86	1 3/4	904.59	1 3/4	517.15	1 3/4	129.63	1 3/4		1 3/4	
1 1/2	2,833.87	1 1/2	2,446.37	1 1/2	2,058.92	1 1/2	1,671.31	1 1/2	1,283.78	1 1/2	896.52	1 1/2	509.07	1 1/2	121.56	1 1/2		1 1/2	
3/4	2,825.80	3/4	2,438.30	3/4	2,050.85	3/4	1,663.24	3/4	1,275.71	3/4	888.45	3/4	501.00	3/4	113.48	3/4		3/4	
9	2,817.73	9	2,430.22	9	2,042.78	9	1,655.17	9	1,267.64	9	880.38	9	492.93	9	105.41	9		9	
1 1/4	2,809.66	1 1/4	2,422.15	1 1/4	2,034.71	1 1/4	1,647.10	1 1/4	1,259.57	1 1/4	872.31	1 1/4	484.86	1 1/4	97.34	1 1/4		1 1/4	
1 1/2	2,801.59	1 1/2	2,414.07	1 1/2	2,026.64	1 1/2	1,639.02	1 1/2	1,251.50	1 1/2	864.24	1 1/2	476.79	1 1/2	89.26	1 1/2		1 1/2	
3/4	2,793.51	3/4	2,406.00	3/4	2,018.57	3/4	1,630.95	3/4	1,243.42	3/4	856.17	3/4	468.71	3/4	81.19	3/4		3/4	
10	2,785.44	10	2,397.93	10	2,010.50	10	1,622.87	10	1,235.34	10	848.10	10	460.63	10	73.12	10		10	
1 3/4	2,777.38	1 3/4	2,389.86	1 3/4	2,002.43	1 3/4	1,614.80	1 3/4	1,227.27	1 3/4	839.99	1 3/4	452.56	1 3/4	65.04	1 3/4		1 3/4	
1 1/2	2,769.31	1 1/2	2,381.79	1 1/2	1,994.36	1 1/2	1,606.72	1 1/2	1,219.20	1 1/2	831.83	1 1/2	444.49	1 1/2	56.97	1 1/2		1 1/2	
3/4	2,761.23	3/4	2,373.71	3/4	1,986.29	3/4	1,598.65	3/4	1,211.12	3/4	823.76	3/4	436.41	3/4	48.90	3/4		3/4	
11	2,753.16	11	2,365.63	11	1,978.21	11	1,590.58	11	1,203.05	11	815.69	11	428.34	11	40.82	11		11	
1 1/4	2,745.07	1 1/4	2,357.56	1 1/4	1,970.13	1 1/4	1,582.50	1 1/4	1,194.98	1 1/4	807.64	1 1/4	420.27	1 1/4	32.75	1 1/4		1 1/4	
1 1/2	2,737.00	1 1/2	2,349.49	1 1/2	1,962.06	1 1/2	1,574.43	1 1/2	1,186.90	1 1/2	799.57	1 1/2	412.19	1 1/2	24.68	1 1/2		1 1/2	
3/4	2,728.92	3/4	2,341.41	3/4	1,953.99	3/4	1,566.36	3/4	1,178.83	3/4	791.51	3/4	404.12	3/4	16.60	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY

STRAPPED: 02/04/2019 BW - 18  
CALCULATED: 02/04/2019 CL  
PRINTED: 02/04/2019 CL

CANCELLED AND SUPERCEDES  
ALL PRIOR TO 02/2019

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2062  
Pasadena, Texas 77668  
800/777-7666

*Paul J. Gamm*





# BARGE "EMS 505"

## 2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 12 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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14
12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14
12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34
2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14
12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34
3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14
12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34
4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14
12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34
5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14
12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34
6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14
12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34
7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14
12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34
8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14
12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34
9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14
12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34
10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14
12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34
11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14
12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34
12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34

BARRE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL

CAPACITY TABLE ONLY APPLIES TO EXTREME HEIGHT OF TANK

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE

GAUGE POINT: (HERMETIC) LOCATED 12-08" OFF CENTERLINE AND 41-00" FORWARD OF AFT BULKHEAD

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY

PRECISION MEASUREMENT

& ANALYSIS, INC.

P.O. Box 2012

Pearland, Texas 77689

http://www.precision101.com

*[Signature]*



# BARGE "EMS 505"

## 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.		GAUGE HEIGHT 17'-11 3/4"	
IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
0	3,072.90	0	2,885.74	0	2,698.58	0	1,911.40	0	1,524.22	0	1,136.92	0	750.00	0	379.65	0	18 FT.	18	0
1/4	3,064.83	1/4	2,877.88	1/4	2,690.61	1/4	1,903.33	1/4	1,516.16	1/4	1,130.90	1/4	745.00	1/4	375.49	1/4	17	17	1/4
1/2	3,056.77	1/2	2,869.81	1/2	2,682.44	1/2	1,895.27	1/2	1,508.09	1/2	1,124.84	1/2	740.00	1/2	371.33	1/2	16	16	1/2
3/4	3,048.70	3/4	2,861.75	3/4	2,674.38	3/4	1,887.20	3/4	1,500.02	3/4	1,118.78	3/4	735.00	3/4	367.17	3/4	15	15	3/4
1	3,040.64	1	2,853.68	1	2,666.31	1	1,879.13	1	1,491.86	1	1,112.72	1	730.00	1	363.00	1	14	14	1
1 1/4	3,032.57	1 1/4	2,845.62	1 1/4	2,658.24	1 1/4	1,871.07	1 1/4	1,483.80	1 1/4	1,106.66	1 1/4	725.00	1 1/4	358.84	1 1/4	13	13	1 1/4
1 1/2	3,024.50	1 1/2	2,837.36	1 1/2	2,650.18	1 1/2	1,863.00	1 1/2	1,475.72	1 1/2	1,100.60	1 1/2	720.00	1 1/2	354.68	1 1/2	12	12	1 1/2
3/2	3,016.44	3/2	2,829.28	3/2	2,642.11	3/2	1,854.93	3/2	1,467.66	3/2	1,094.54	3/2	715.00	3/2	350.52	3/2	11	11	3/2
2	3,008.37	2	2,821.22	2	2,634.05	2	1,846.87	2	1,459.60	2	1,088.48	2	710.00	2	346.36	2	10	10	2
2 1/4	3,000.31	2 1/4	2,813.16	2 1/4	2,625.98	2 1/4	1,838.80	2 1/4	1,451.52	2 1/4	1,082.42	2 1/4	705.00	2 1/4	342.20	2 1/4	9	9	2 1/4
2 1/2	2,992.24	2 1/2	2,805.09	2 1/2	2,617.91	2 1/2	1,830.74	2 1/2	1,443.46	2 1/2	1,076.36	2 1/2	700.00	2 1/2	338.04	2 1/2	8	8	2 1/2
3/2	2,984.18	3/2	2,797.02	3/2	2,609.86	3/2	1,822.67	3/2	1,435.40	3/2	1,070.30	3/2	695.00	3/2	333.88	3/2	7	7	3/2
3	2,976.11	3	2,788.95	3	2,601.79	3	1,814.60	3	1,427.33	3	1,064.24	3	690.00	3	329.72	3	6	6	3
3 1/4	2,968.04	3 1/4	2,780.88	3 1/4	2,593.71	3 1/4	1,806.54	3 1/4	1,419.26	3 1/4	1,058.18	3 1/4	685.00	3 1/4	325.56	3 1/4	5	5	3 1/4
3 1/2	2,959.98	3 1/2	2,772.82	3 1/2	2,585.66	3 1/2	1,798.47	3 1/2	1,411.20	3 1/2	1,052.12	3 1/2	680.00	3 1/2	321.40	3 1/2	4	4	3 1/2
4	2,951.91	4	2,764.76	4	2,577.60	4	1,790.40	4	1,403.13	4	1,046.06	4	675.00	4	317.24	4	3	3	4
4 1/4	2,943.85	4 1/4	2,756.69	4 1/4	2,569.53	4 1/4	1,782.34	4 1/4	1,395.06	4 1/4	1,040.00	4 1/4	670.00	4 1/4	313.08	4 1/4	2	2	4 1/4
4 1/2	2,935.78	4 1/2	2,748.63	4 1/2	2,561.46	4 1/2	1,774.27	4 1/2	1,387.00	4 1/2	1,033.94	4 1/2	665.00	4 1/2	308.92	4 1/2	1	1	4 1/2
5	2,927.72	5	2,740.56	5	2,553.39	5	1,766.21	5	1,378.93	5	1,027.88	5	660.00	5	304.76	5	0	0	5
5 1/4	2,919.66	5 1/4	2,732.50	5 1/4	2,545.32	5 1/4	1,758.14	5 1/4	1,370.86	5 1/4	1,021.82	5 1/4	655.00	5 1/4	300.60	5 1/4	18 FT.	18	5 1/4
5 1/2	2,911.59	5 1/2	2,724.43	5 1/2	2,537.25	5 1/2	1,750.07	5 1/2	1,362.80	5 1/2	1,015.76	5 1/2	650.00	5 1/2	296.44	5 1/2	17	17	5 1/2
6	2,903.52	6	2,716.36	6	2,529.18	6	1,742.01	6	1,354.73	6	1,009.70	6	645.00	6	292.28	6	16	16	6
6 1/4	2,895.46	6 1/4	2,708.30	6 1/4	2,521.12	6 1/4	1,733.94	6 1/4	1,346.76	6 1/4	1,003.64	6 1/4	640.00	6 1/4	288.12	6 1/4	15	15	6 1/4
6 1/2	2,887.39	6 1/2	2,700.23	6 1/2	2,513.05	6 1/2	1,725.88	6 1/2	1,338.70	6 1/2	997.58	6 1/2	635.00	6 1/2	283.96	6 1/2	14	14	6 1/2
7	2,879.32	7	2,692.16	7	2,504.98	7	1,717.81	7	1,330.63	7	991.52	7	630.00	7	279.80	7	13	13	7
7 1/4	2,871.26	7 1/4	2,684.10	7 1/4	2,496.92	7 1/4	1,709.74	7 1/4	1,322.57	7 1/4	985.46	7 1/4	625.00	7 1/4	275.64	7 1/4	12	12	7 1/4
7 1/2	2,863.19	7 1/2	2,676.03	7 1/2	2,488.85	7 1/2	1,701.68	7 1/2	1,314.50	7 1/2	979.40	7 1/2	620.00	7 1/2	271.48	7 1/2	11	11	7 1/2
8	2,855.12	8	2,667.97	8	2,480.78	8	1,693.61	8	1,306.43	8	973.34	8	615.00	8	267.32	8	10	10	8
8 1/4	2,847.05	8 1/4	2,659.90	8 1/4	2,472.72	8 1/4	1,685.54	8 1/4	1,298.37	8 1/4	967.28	8 1/4	610.00	8 1/4	263.16	8 1/4	9	9	8 1/4
8 1/2	2,838.99	8 1/2	2,651.83	8 1/2	2,464.65	8 1/2	1,677.48	8 1/2	1,290.30	8 1/2	961.22	8 1/2	605.00	8 1/2	259.00	8 1/2	8	8	8 1/2
9	2,830.93	9	2,643.77	9	2,456.58	9	1,669.41	9	1,282.24	9	955.16	9	600.00	9	254.84	9	7	7	9
9 1/4	2,822.86	9 1/4	2,635.70	9 1/4	2,448.52	9 1/4	1,661.35	9 1/4	1,274.17	9 1/4	949.10	9 1/4	595.00	9 1/4	250.68	9 1/4	6	6	9 1/4
9 1/2	2,814.80	9 1/2	2,627.63	9 1/2	2,440.46	9 1/2	1,653.28	9 1/2	1,266.10	9 1/2	943.04	9 1/2	590.00	9 1/2	246.52	9 1/2	5	5	9 1/2
10	2,806.73	10	2,619.57	10	2,432.38	10	1,645.21	10	1,258.03	10	936.98	10	585.00	10	242.36	10	4	4	10
10 1/4	2,798.66	10 1/4	2,611.50	10 1/4	2,424.32	10 1/4	1,637.15	10 1/4	1,250.00	10 1/4	930.92	10 1/4	580.00	10 1/4	238.20	10 1/4	3	3	10 1/4
10 1/2	2,790.60	10 1/2	2,603.44	10 1/2	2,416.26	10 1/2	1,629.08	10 1/2	1,241.93	10 1/2	924.86	10 1/2	575.00	10 1/2	234.04	10 1/2	2	2	10 1/2
11	2,782.53	11	2,595.37	11	2,408.19	11	1,621.01	11	1,233.86	11	918.80	11	570.00	11	229.88	11	1	1	11
11 1/4	2,774.47	11 1/4	2,587.30	11 1/4	2,400.13	11 1/4	1,612.96	11 1/4	1,225.80	11 1/4	912.74	11 1/4	565.00	11 1/4	225.72	11 1/4	0	0	11 1/4
11 1/2	2,766.40	11 1/2	2,579.24	11 1/2	2,392.06	11 1/2	1,604.89	11 1/2	1,217.74	11 1/2	906.68	11 1/2	560.00	11 1/2	221.56	11 1/2	18 FT.	18	11 1/2
12	2,758.34	12	2,571.17	12	2,384.00	12	1,596.82	12	1,209.68	12	900.62	12	555.00	12	217.40	12	17	17	12
12 1/4	2,750.27	12 1/4	2,563.10	12 1/4	2,375.93	12 1/4	1,588.76	12 1/4	1,201.62	12 1/4	894.56	12 1/4	550.00	12 1/4	213.24	12 1/4	16	16	12 1/4
12 1/2	2,742.20	12 1/2	2,555.04	12 1/2	2,367.86	12 1/2	1,580.69	12 1/2	1,193.56	12 1/2	888.50	12 1/2	545.00	12 1/2	209.08	12 1/2	15	15	12 1/2
13	2,734.14	13	2,546.97	13	2,359.79	13	1,572.62	13	1,185.50	13	882.44	13	540.00	13	204.92	13	14	14	13
13 1/4	2,726.07	13 1/4	2,538.91	13 1/4	2,351.73	13 1/4	1,564.55	13 1/4	1,177.44	13 1/4	876.38	13 1/4	535.00	13 1/4	200.76	13 1/4	13	13	13 1/4
13 1/2	2,718.01	13 1/2	2,530.84	13 1/2	2,343.66	13 1/2	1,556.48	13 1/2	1,169.38	13 1/2	870.32	13 1/2	530.00	13 1/2	196.60	13 1/2	12	12	13 1/2
14	2,709.94	14	2,522.77	14	2,335.59	14	1,548.42	14	1,161.32	14	864.26	14	525.00	14	192.44	14	11	11	14
14 1/4	2,701.88	14 1/4	2,514.71	14 1/4	2,327.53	14 1/4	1,540.35	14 1/4	1,153.26	14 1/4	858.20	14 1/4	520.00	14 1/4	188.28	14 1/4	10	10	14 1/4
14 1/2	2,693.81	14 1/2	2,506.64	14 1/2	2,319.46	14 1/2	1,532.28	14 1/2	1,145.20	14 1/2	852.14	14 1/2	515.00	14 1/2	184.12	14 1/2	9	9	14 1/2

STRAPPED: 02/06/2019 SW -JS  
CALCULATED: 02/06/2019 CL  
PRINTED: 02/06/2019 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 02/2019

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
P.O. Box 5092  
Portland, Texas 77668  
mailto:info@precisionmeas.com

*John*



**3 PORT  
ULLAGE TABLE**

GAUGE HEIGHT 17'-11 3/4"

[illegible]

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH UMSB CHAPTER 47

WEAKENED AND COMPILED IN ACCORDANCE WITH MPMS  
CAPACITY TABLE ONLY APPLIES WHEN BADGE IS ON EVERY PAGE!

**CAPACITY TABLE ONLY APPLIES WHEN RANGE IS ON EVEN**

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

**CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE**

**GAUGE POINTS: (HERMETIC) LOCATED 12'-08" OFF CENTERLINE AND 41'-00" FORWARD OF AFT BULKHEAD**

[illegible]

## References

601.68	556	3,240.92	144	2,879.28
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**CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.**

**THE UNIVERSITY OF CHICAGO**

## PRECISION MEASUREMENT

**S. ANALYST, INC.**

P.O. Box 2012

**Portland, Texas 77638**

**Self-disclosed research**

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### PRECISION MEASUREMENT

HOW MEASURE  
ANALYSIS INC.

1988

**Aug. 2013**

**Parsons, Tom 77698**

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# BARGE "EMS 505"

## 3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17-31 1/4"																							
10 FT.			11 FT.			12 FT.			13 FT.			14 FT.			16 FT.			17 FT.			18 FT.		
IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	
0	2,971.73	0	2,510.07	0	2,146.23	0	1,786.39	0	1,424.54	0	1,062.69	0	701.37	0	339.68	0	0	0	0	0	0	0	
1/4	2,864.19	1/4	2,402.84	1/4	2,140.70	1/4	1,778.85	1/4	1,417.00	1/4	1,058.16	1/4	693.95	1/4	332.14	1/4	0	0	0	0	0	0	
1/2	2,666.65	1/2	2,205.00	1/2	2,133.16	1/2	1,771.31	1/2	1,408.46	1/2	1,047.61	1/2	686.34	1/2	324.61	1/2	0	0	0	0	0	0	
3/4	2,449.12	3/4	2,087.46	3/4	2,128.62	3/4	1,763.77	3/4	1,401.62	3/4	1,040.07	3/4	678.82	3/4	317.07	3/4	0	0	0	0	0	0	
1	2,247.69	1	1,979.93	1	2,118.00	1	1,756.23	1	1,394.38	1	1,032.64	1	671.39	1	309.55	1	0	0	0	0	0	0	
1 1/4	2,042.05	1 1/4	1,772.39	1 1/4	2,110.54	1 1/4	1,743.69	1 1/4	1,382.85	1 1/4	1,020.00	1 1/4	663.79	1 1/4	301.99	1 1/4	0	0	0	0	0	0	
1 1/2	1,836.52	1 1/2	1,568.86	1 1/2	2,002.82	1 1/2	1,741.16	1 1/2	1,371.31	1 1/2	1,017.46	1 1/2	655.28	1 1/2	294.45	1 1/2	0	0	0	0	0	0	
3/4	1,631.99	3/4	1,364.31	3/4	2,096.46	3/4	1,733.62	3/4	1,371.77	3/4	1,006.92	3/4	648.73	3/4	286.91	3/4	0	0	0	0	0	0	
2	1,431.45	2	1,163.78	2	2,087.93	2	1,728.08	2	1,364.23	2	1,002.38	2	641.20	2	279.38	2	0	0	0	0	0	0	
2 1/4	1,236.92	2 1/4	1,000.36	2 1/4	2,080.36	2 1/4	1,718.64	2 1/4	1,356.69	2 1/4	994.84	2 1/4	633.68	2 1/4	271.84	2 1/4	0	0	0	0	0	0	
2 1/2	1,042.39	2 1/2	807.86	2 1/2	2,072.86	2 1/2	1,711.00	2 1/2	1,348.16	2 1/2	987.30	2 1/2	626.14	2 1/2	264.30	2 1/2	0	0	0	0	0	0	
3/4	798.86	3/4	566.31	3/4	2,068.31	3/4	1,703.46	3/4	1,341.61	3/4	979.77	3/4	618.60	3/4	256.76	3/4	0	0	0	0	0	0	
3	603.31	3	373.77	3	2,057.77	3	1,695.92	3	1,334.08	3	972.23	3	611.06	3	249.22	3	0	0	0	0	0	0	
3 1/4	408.83	3 1/4	189.23	3 1/4	2,050.23	3 1/4	1,688.39	3 1/4	1,326.64	3 1/4	964.69	3 1/4	603.62	3 1/4	241.68	3 1/4	0	0	0	0	0	0	
3 1/2	204.58	3 1/2	2,042.69	3 1/2	1,680.86	3 1/2	1,319.00	3 1/2	957.15	3 1/2	956.88	3 1/2	596.88	3 1/2	234.18	3 1/2	0	0	0	0	0	0	
3/4	178.71	3/4	2,037.01	3/4	1,673.31	3/4	1,311.46	3/4	949.61	3/4	949.61	3/4	588.46	3/4	226.61	3/4	0	0	0	0	0	0	
4	2,027.82	4	1,666.77	4	2,027.82	4	1,666.77	4	1,303.92	4	942.07	4	580.81	4	210.07	4	0	0	0	0	0	0	
4 1/4	2,281.93	4 1/4	2,020.08	4 1/4	2,020.08	4 1/4	1,666.38	4 1/4	1,296.38	4 1/4	934.64	4 1/4	573.37	4 1/4	211.53	4 1/4	0	0	0	0	0	0	
4 1/2	2,374.39	4 1/2	2,012.54	4 1/2	1,660.89	4 1/2	1,288.84	4 1/2	1,288.84	4 1/2	927.00	4 1/2	565.83	4 1/2	203.99	4 1/2	0	0	0	0	0	0	
3/4	2,366.86	3/4	2,005.00	3/4	1,643.16	3/4	1,281.31	3/4	1,281.31	3/4	919.46	3/4	558.28	3/4	198.48	3/4	0	0	0	0	0	0	
5	2,269.31	5	1,997.46	5	1,638.62	5	1,273.77	5	1,273.77	5	911.92	5	550.76	5	189.92	5	0	0	0	0	0	0	
5 1/4	2,131.77	5 1/4	1,888.93	5 1/4	1,626.08	5 1/4	1,266.23	5 1/4	1,266.23	5 1/4	904.38	5 1/4	543.22	5 1/4	181.38	5 1/4	0	0	0	0	0	0	
5 1/2	2,059.97	5 1/2	1,882.39	5 1/2	1,620.54	5 1/2	1,258.69	5 1/2	1,258.69	5 1/2	896.86	5 1/2	536.68	5 1/2	173.64	5 1/2	0	0	0	0	0	0	
3/4	2,338.70	3/4	1,974.36	3/4	1,613.00	3/4	1,251.16	3/4	1,251.16	3/4	889.33	3/4	528.14	3/4	165.30	3/4	0	0	0	0	0	0	
6	2,229.16	6	1,867.31	6	1,605.46	6	1,243.61	6	1,243.61	6	891.80	6	520.60	6	159.76	6	0	0	0	0	0	0	
6 1/4	2,321.92	6 1/4	1,859.77	6 1/4	1,597.92	6 1/4	1,236.08	6 1/4	1,236.08	6 1/4	874.27	6 1/4	513.06	6 1/4	151.22	6 1/4	0	0	0	0	0	0	
6 1/2	2,314.08	6 1/2	1,852.23	6 1/2	1,590.36	6 1/2	1,228.94	6 1/2	1,228.94	6 1/2	866.76	6 1/2	506.52	6 1/2	143.69	6 1/2	0	0	0	0	0	0	
3/4	2,308.64	3/4	1,844.66	3/4	1,582.86	3/4	1,221.00	3/4	1,221.00	3/4	859.24	3/4	497.69	3/4	136.16	3/4	0	0	0	0	0	0	
7	2,299.00	7	1,837.16	7	1,575.31	7	1,213.45	7	1,213.45	7	851.72	7	490.46	7	126.61	7	0	0	0	0	0	0	
7 1/4	2,253.23	7 1/4	1,828.62	7 1/4	1,567.77	7 1/4	1,206.92	7 1/4	1,206.92	7 1/4	844.20	7 1/4	482.91	7 1/4	121.07	7 1/4	0	0	0	0	0	0	
7 1/2	2,245.98	7 1/2	1,822.08	7 1/2	1,560.23	7 1/2	1,199.38	7 1/2	1,199.38	7 1/2	836.88	7 1/2	476.37	7 1/2	113.63	7 1/2	0	0	0	0	0	0	
3/4	2,236.16	3/4	1,814.54	3/4	1,552.69	3/4	1,190.84	3/4	1,190.84	3/4	829.17	3/4	467.83	3/4	105.99	3/4	0	0	0	0	0	0	
8	2,230.62	8	1,807.00	8	1,545.16	8	1,183.31	8	1,183.31	8	821.66	8	460.29	8	98.46	8	0	0	0	0	0	0	
8 1/4	2,261.31	8 1/4	1,809.46	8 1/4	1,537.82	8 1/4	1,176.77	8 1/4	1,176.77	8 1/4	814.13	8 1/4	452.76	8 1/4	90.92	8 1/4	0	0	0	0	0	0	
8 1/2	2,263.77	8 1/2	1,807.92	8 1/2	1,530.00	8 1/2	1,168.23	8 1/2	1,168.23	8 1/2	806.82	8 1/2	446.22	8 1/2	83.36	8 1/2	0	0	0	0	0	0	
3/4	2,248.02	3/4	1,804.39	3/4	1,522.64	3/4	1,160.66	3/4	1,160.66	3/4	798.10	3/4	437.66	3/4	76.84	3/4	0	0	0	0	0	0	
9	2,238.70	9	1,797.66	9	1,515.00	9	1,153.16	9	1,153.16	9	791.66	9	430.14	9	68.30	9	0	0	0	0	0	0	
9 1/4	2,231.16	9 1/4	1,809.31	9 1/4	1,507.46	9 1/4	1,146.61	9 1/4	1,146.61	9 1/4	784.06	9 1/4	422.60	9 1/4	60.76	9 1/4	0	0	0	0	0	0	
9 1/2	2,226.42	9 1/2	1,804.77	9 1/2	1,499.92	9 1/2	1,138.07	9 1/2	1,138.07	9 1/2	776.65	9 1/2	416.06	9 1/2	53.86	9 1/2	0	0	0	0	0	0	
3/4	2,217.88	3/4	1,804.23	3/4	1,492.38	3/4	1,130.64	3/4	1,130.64	3/4	769.03	3/4	407.83	3/4	46.94	3/4	0	0	0	0	0	0	
10	2,208.64	10	1,804.69	10	1,484.86	10	1,123.00	10	1,123.00	10	761.81	10	399.96	10	40.03	10	0	0	0	0	0	0	
10 1/4	2,201.00	10 1/4	1,809.16	10 1/4	1,477.51	10 1/4	1,116.48	10 1/4	1,116.48	10 1/4	753.99	10 1/4	392.46	10 1/4	33.12	10 1/4	0	0	0	0	0	0	
10 1/2	2,206.26	10 1/2	1,803.92	10 1/2	1,469.77	10 1/2	1,107.92	10 1/2	1,107.92	10 1/2	746.48	10 1/2	384.91	10 1/2	26.10	10 1/2	0	0	0	0	0	0	
3/4	2,187.74	3/4	1,824.08	3/4	1,462.23	3/4	1,100.36	3/4	1,100.36	3/4	738.98	3/4	377.37	3/4	23.07	3/4	0	0	0	0	0	0	
11	2,176.99	11	1,816.84	11	1,454.69	11	1,092.84	11	1,092.84	11	731.44	11	369.83	11	18.06	11	0	0	0	0	0	0	
11 1/4	2,163.31	11 1/4	1,809.00	11 1/4	1,447.16	11 1/4	1,086.31	11 1/4	1,086.31	11 1/4	723.93	11 1/4	362.30	11 1/4	13.02	11 1/4	0	0	0	0	0	0	
11 1/2	2,152.67	11 1/2	1,801.46	11 1/2	1,439.61	11 1/2	1,077.77	11 1/2	1,077.77	11 1/2	716.41	11 1/2	354.76	11 1/2	0	11 1/2	0	0	0	0	0	0	
3/4	2,141.61	3/4	1,793.92	3/4	1,432.06	3/4	1,070.23	3/4	1,070.23	3/4	708.69	3/4	347.22	3/4	0	11 3/4	0	0	0	0	0	0	



**3 STBD**  
**ULLAGE TABLE**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

[illegible]

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MARINE CHARTER 87

BARGE STAFFED AND COMPUTED IN ACCORDANCE WITH MPMS CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON GYEN KEEL

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

**CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CI OVER GALLING GROSS!**

GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 41'-00" FORWARD OF LAST BULKHEAD.

### PRECISION MEASUREMENT

ANALYSIS, INC.

P.O. Box 2012

**Parland, Texas 77534**

**John Deere** is a leader in the industry.

1997-1998

QUEST NO. 14 OF 19



# BARGE "EMS 505"

## 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.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0	2,860.35	0	2,489.36	0	2,128.28	0	1,769.47	0	1,408.11	0	1,046.37	0	701.59	0	339.66	0	0
1/4	2,842.83	1/4	2,471.84	1/4	2,120.81	1/4	1,761.94	1/4	1,400.58	1/4	1,048.17	1/4	693.58	1/4	332.12	1/4	1/4
1/2	2,825.30	1/2	2,474.33	1/2	2,113.34	1/2	1,764.41	1/2	1,393.05	1/2	1,038.86	1/2	685.07	1/2	324.58	1/2	1/2
3/4	2,827.77	3/4	2,480.81	3/4	2,105.86	3/4	1,768.89	3/4	1,386.52	3/4	1,031.76	3/4	676.55	3/4	317.06	3/4	3/4
1	2,820.28	1	2,489.26	1	2,098.41	1	1,773.38	1	1,379.99	1	1,024.86	1	671.04	1	309.53	1	1
1 1/4	2,812.72	1 1/4	2,451.76	1 1/4	2,080.94	1 1/4	1,751.83	1 1/4	1,370.47	1 1/4	1,017.34	1 1/4	663.53	1 1/4	301.99	1 1/4	1 1/4
1 1/2	2,805.19	1 1/2	2,444.26	1 1/2	2,083.47	1 1/2	1,724.30	1 1/2	1,362.84	1 1/2	1,010.14	1 1/2	656.01	1 1/2	294.48	1 1/2	1 1/2
3/4	2,797.87	3/4	2,436.73	3/4	2,076.00	3/4	1,716.77	3/4	1,355.41	3/4	1,002.93	3/4	648.49	3/4	286.93	3/4	3/4
2	2,790.14	2	2,429.21	2	2,068.53	2	1,709.24	2	1,347.88	2	995.73	2	640.98	2	279.39	2	2
1 1/4	2,782.62	1 1/4	2,421.69	1 1/4	2,061.06	1 1/4	1,701.72	1 1/4	1,340.35	1 1/4	988.62	1 1/4	633.44	1 1/4	271.86	1 1/4	1 1/4
1 1/2	2,775.09	1 1/2	2,414.16	1 1/2	2,053.59	1 1/2	1,694.19	1 1/2	1,332.82	1 1/2	981.31	1 1/2	625.91	1 1/2	264.33	1 1/2	1 1/2
3/4	2,767.56	3/4	2,406.63	3/4	2,046.12	3/4	1,686.66	3/4	1,325.30	3/4	974.11	3/4	618.37	3/4	256.80	3/4	3/4
3	2,760.04	3	2,399.11	3	2,038.65	3	1,679.13	3	1,317.77	3	966.90	3	610.84	3	249.28	3	3
1 1/4	2,752.51	1 1/4	2,391.58	1 1/4	2,031.18	1 1/4	1,671.60	1 1/4	1,310.24	1 1/4	959.39	1 1/4	603.31	1 1/4	241.73	1 1/4	1 1/4
1 1/2	2,744.98	1 1/2	2,384.06	1 1/2	2,023.71	1 1/2	1,664.07	1 1/2	1,302.71	1 1/2	951.87	1 1/2	595.78	1 1/2	234.20	1 1/2	1 1/2
3/4	2,737.48	3/4	2,376.52	3/4	2,016.26	3/4	1,656.54	3/4	1,295.18	3/4	944.35	3/4	588.24	3/4	226.67	3/4	3/4
4	2,729.93	4	2,368.99	4	2,008.78	4	1,649.02	4	1,287.65	4	936.82	4	580.71	4	219.14	4	4
1 1/4	2,722.41	1 1/4	2,361.48	1 1/4	2,001.31	1 1/4	1,641.49	1 1/4	1,280.12	1 1/4	929.30	1 1/4	573.18	1 1/4	211.61	1 1/4	1 1/4
1 1/2	2,714.88	1 1/2	2,353.92	1 1/2	1,993.84	1 1/2	1,633.96	1 1/2	1,272.60	1 1/2	921.78	1 1/2	565.64	1 1/2	204.07	1 1/2	1 1/2
3/4	2,707.36	3/4	2,346.39	3/4	1,986.37	3/4	1,626.43	3/4	1,265.07	3/4	914.26	3/4	558.11	3/4	196.54	3/4	3/4
5	2,699.83	5	2,338.86	5	1,978.90	5	1,618.90	5	1,257.54	5	906.73	5	550.58	5	189.01	5	5
1 1/4	2,692.30	1 1/4	2,331.33	1 1/4	1,971.43	1 1/4	1,611.37	1 1/4	1,250.01	1 1/4	900.04	1 1/4	543.05	1 1/4	181.48	1 1/4	1 1/4
1 1/2	2,684.78	1 1/2	2,323.80	1 1/2	1,963.96	1 1/2	1,603.86	1 1/2	1,242.48	1 1/2	892.54	1 1/2	535.51	1 1/2	173.94	1 1/2	1 1/2
3/4	2,677.26	3/4	2,316.28	3/4	1,956.48	3/4	1,596.32	3/4	1,234.95	3/4	885.04	3/4	527.98	3/4	166.41	3/4	3/4
6	2,669.73	6	2,308.73	6	1,948.92	6	1,588.79	6	1,227.43	6	877.54	6	520.45	6	158.87	6	6
1 1/4	2,662.21	1 1/4	2,301.20	1 1/4	1,941.45	1 1/4	1,581.26	1 1/4	1,219.90	1 1/4	870.04	1 1/4	512.91	1 1/4	151.34	1 1/4	1 1/4
1 1/2	2,654.69	1 1/2	2,293.67	1 1/2	1,933.88	1 1/2	1,573.73	1 1/2	1,212.37	1 1/2	862.56	1 1/2	505.38	1 1/2	143.80	1 1/2	1 1/2
3/4	2,647.17	3/4	2,286.14	3/4	1,926.31	3/4	1,566.20	3/4	1,204.84	3/4	855.07	3/4	497.85	3/4	136.25	3/4	3/4
7	2,639.66	7	2,278.61	7	1,918.78	7	1,558.68	7	1,197.31	7	847.57	7	490.32	7	128.71	7	7
1 1/4	2,632.14	1 1/4	2,271.07	1 1/4	1,911.25	1 1/4	1,551.15	1 1/4	1,189.78	1 1/4	840.04	1 1/4	482.78	1 1/4	121.17	1 1/4	1 1/4
1 1/2	2,624.62	1 1/2	2,263.54	1 1/2	1,903.72	1 1/2	1,543.62	1 1/2	1,182.25	1 1/2	832.56	1 1/2	475.25	1 1/2	113.63	1 1/2	1 1/2
3/4	2,617.11	3/4	2,256.01	3/4	1,896.19	3/4	1,536.09	3/4	1,174.72	3/4	825.07	3/4	467.72	3/4	106.08	3/4	3/4
8	2,609.59	8	2,248.48	8	1,888.67	8	1,528.56	8	1,167.19	8	817.59	8	460.18	8	98.54	8	8
1 1/4	2,602.08	1 1/4	2,240.95	1 1/4	1,881.14	1 1/4	1,521.03	1 1/4	1,159.66	1 1/4	810.11	1 1/4	452.65	1 1/4	90.99	1 1/4	1 1/4
1 1/2	2,594.56	1 1/2	2,233.42	1 1/2	1,873.61	1 1/2	1,513.51	1 1/2	1,152.13	1 1/2	802.58	1 1/2	445.12	1 1/2	83.45	1 1/2	1 1/2
3/4	2,587.05	3/4	2,225.89	3/4	1,866.08	3/4	1,505.98	3/4	1,144.60	3/4	795.06	3/4	437.59	3/4	75.90	3/4	3/4
9	2,579.53	9	2,218.36	9	1,858.56	9	1,498.46	9	1,137.07	9	787.54	9	430.06	9	68.36	9	9
1 1/4	2,572.02	1 1/4	2,210.83	1 1/4	1,851.03	1 1/4	1,490.92	1 1/4	1,129.54	1 1/4	780.04	1 1/4	422.52	1 1/4	60.81	1 1/4	1 1/4
1 1/2	2,564.50	1 1/2	2,203.30	1 1/2	1,843.50	1 1/2	1,483.39	1 1/2	1,122.01	1 1/2	772.51	1 1/2	414.99	1 1/2	53.26	1 1/2	1 1/2
3/4	2,556.99	3/4	2,195.77	3/4	1,835.97	3/4	1,475.86	3/4	1,114.48	3/4	765.00	3/4	407.46	3/4	45.71	3/4	3/4
10	2,549.48	10	2,188.24	10	1,828.44	10	1,468.33	10	1,106.95	10	757.48	10	399.92	10	38.16	10	10
1 1/4	2,541.96	1 1/4	2,180.71	1 1/4	1,820.91	1 1/4	1,460.81	1 1/4	1,099.42	1 1/4	750.00	1 1/4	392.39	1 1/4	30.61	1 1/4	1 1/4
1 1/2	2,534.45	1 1/2	2,173.18	1 1/2	1,813.38	1 1/2	1,453.28	1 1/2	1,091.89	1 1/2	742.48	1 1/2	384.86	1 1/2	23.06	1 1/2	1 1/2
3/4	2,526.93	3/4	2,165.65	3/4	1,805.85	3/4	1,445.75	3/4	1,084.36	3/4	734.97	3/4	377.32	3/4	15.51	3/4	3/4
11	2,519.42	11	2,158.12	11	1,798.32	11	1,438.22	11	1,076.83	11	727.48	11	369.79	11	8.06	11	11
1 1/4	2,511.90	1 1/4	2,150.59	1 1/4	1,790.79	1 1/4	1,430.69	1 1/4	1,069.30	1 1/4	719.99	1 1/4	362.26	1 1/4	1.51	1 1/4	1 1/4
1 1/2	2,504.39	1 1/2	2,143.06	1 1/2	1,783.26	1 1/2	1,423.16	1 1/2	1,061.77	1 1/2	712.50	1 1/2	354.72	1 1/2	0.00	1 1/2	1 1/2
3/4	2,496.87	3/4	2,135.54	3/4	1,775.73	3/4	1,415.64	3/4	1,054.24	3/4	705.00	3/4	347.19	3/4	0.00	3/4	3/4

STRAPPED: 02/08/2019, SW -J8  
CALCULATED: 02/08/2019 CL  
PRINTED: 02/08/2019 OL

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*[Signature]*