



BARGE "EMS 531"

ULLAGE TRIM TABLE

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

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

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

LENGTH BETWEEN DRAFT MARKS: 236'-09"

October 8, 2024

PRECISION MEASUREMENT

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

<http://www.pmacorp.net>



BARGE "EMS 531"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-06"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
1/4	4,581.99	1/4	4,282.45	1/4	3,973.87	1/4	3,668.85	1/4	3,364.85	1/4	3,061.85	1/4	2,758.85	1/4	2,455.85	1/4	2,152.85	1/4	1,849.85
1/2	4,577.20	1/2	4,276.18	1/2	3,967.25	1/2	3,662.23	1/2	3,357.21	1/2	3,053.21	1/2	2,749.21	1/2	2,445.21	1/2	2,141.21	1/2	1,837.21
3/4	4,572.42	3/4	4,269.91	3/4	3,960.63	3/4	3,655.61	3/4	3,350.59	3/4	3,046.59	3/4	2,742.59	3/4	2,438.59	3/4	2,134.59	3/4	1,830.59
1	4,567.65	1	4,263.85	1	3,954.00	1	3,648.98	1	3,343.96	1	3,038.94	1	2,733.92	1	2,428.90	1	2,123.88	1	1,818.86
1 1/4	4,561.55	1 1/4	4,257.35	1 1/4	3,947.36	1 1/4	3,642.34	1 1/4	3,337.32	1 1/4	3,032.30	1 1/4	2,727.28	1 1/4	2,422.26	1 1/4	2,117.24	1 1/4	1,812.22
1 1/2	4,555.46	1 1/2	4,251.05	1 1/2	3,940.71	1 1/2	3,635.69	1 1/2	3,330.67	1 1/2	3,025.65	1 1/2	2,720.63	1 1/2	2,415.61	1 1/2	2,110.59	1 1/2	1,805.57
3/4	4,549.38	3/4	4,244.76	3/4	3,934.06	3/4	3,630.04	3/4	3,325.02	3/4	3,020.00	3/4	2,714.98	3/4	2,409.96	3/4	2,104.94	3/4	1,800.92
2	4,543.30	2	4,238.46	2	3,927.41	2	3,623.39	2	3,318.37	2	3,013.35	2	2,708.33	2	2,403.31	2	2,098.29	2	1,793.27
1/4	4,536.53	1/4	4,232.14	1/4	3,920.73	1/4	3,616.71	1/4	3,311.69	1/4	3,006.67	1/4	2,701.65	1/4	2,396.63	1/4	2,091.61	1/4	1,786.59
1/2	4,529.76	1/2	4,225.82	1/2	3,914.06	1/2	3,587.77	1/2	3,282.75	1/2	2,977.73	1/2	2,672.71	1/2	2,367.69	1/2	2,062.67	1/2	1,757.65
3/4	4,522.98	3/4	4,219.50	3/4	3,907.38	3/4	3,579.87	3/4	3,267.85	3/4	2,962.83	3/4	2,657.81	3/4	2,352.79	3/4	2,047.77	3/4	1,742.75
1	4,516.21	1	4,213.18	1	3,900.71	1	3,572.97	1	3,260.95	1	2,953.93	1	2,648.91	1	2,343.89	1	2,038.87	1	1,733.85
1 1/4	4,509.35	1 1/4	4,206.83	1 1/4	3,894.00	1 1/4	3,566.08	1 1/4	3,254.06	1 1/4	2,947.04	1 1/4	2,642.02	1 1/4	2,336.00	1 1/4	2,030.98	1 1/4	1,725.96
1 1/2	4,502.49	1 1/2	4,200.48	1 1/2	3,887.30	1 1/2	3,558.38	1 1/2	3,246.36	1 1/2	2,939.34	1 1/2	2,634.32	1 1/2	2,328.30	1 1/2	2,023.28	1 1/2	1,718.26
3/4	4,495.64	3/4	4,194.14	3/4	3,880.60	3/4	3,552.28	3/4	3,240.26	3/4	2,933.24	3/4	2,628.22	3/4	2,322.20	3/4	2,017.18	3/4	1,712.16
4	4,488.78	4	4,187.79	4	3,873.90	4	3,545.38	4	3,214.27	4	2,907.25	4	2,602.23	4	2,297.21	4	2,000.19	4	1,695.17
1/4	4,482.11	1/4	4,181.42	1/4	3,867.17	1/4	3,538.48	1/4	3,207.37	1/4	2,899.35	1/4	2,594.33	1/4	2,289.31	1/4	2,000.29	1/4	1,695.27
1/2	4,475.45	1/2	4,175.04	1/2	3,860.44	1/2	3,531.58	1/2	3,200.47	1/2	2,891.44	1/2	2,586.42	1/2	2,281.40	1/2	1,992.38	1/2	1,690.34
3/4	4,468.78	3/4	4,168.67	3/4	3,853.71	3/4	3,524.69	3/4	3,193.57	3/4	2,884.44	3/4	2,579.42	3/4	2,274.40	3/4	1,985.38	3/4	1,685.34
1	4,462.12	1	4,162.29	1	3,846.99	1	3,517.79	1	3,186.67	1	2,877.55	1	2,572.53	1	2,267.51	1	1,978.49	1	1,680.45
1 1/4	4,455.83	1 1/4	4,155.89	1 1/4	3,840.23	1 1/4	3,510.89	1 1/4	3,179.78	1 1/4	2,870.66	1 1/4	2,565.64	1 1/4	2,260.62	1 1/4	1,971.60	1 1/4	1,675.58
1 1/2	4,449.55	1 1/2	4,149.49	1 1/2	3,833.48	1 1/2	3,503.99	1 1/2	3,172.88	1 1/2	2,863.76	1 1/2	2,558.74	1 1/2	2,253.72	1 1/2	1,964.70	1 1/2	1,670.66
3/4	4,443.26	3/4	4,143.09	3/4	3,826.72	3/4	3,497.09	3/4	3,165.88	3/4	2,856.66	3/4	2,551.64	3/4	2,246.62	3/4	1,957.60	3/4	1,665.62
1	4,436.98	1	4,136.69	1	3,819.97	1	3,490.30	1	3,159.08	1	2,849.86	1	2,544.84	1	2,241.82	1	1,946.80	1	1,660.64
1 1/4	4,430.86	1 1/4	4,130.27	1 1/4	3,813.19	1 1/4	3,483.20	1 1/4	3,152.18	1 1/4	2,841.96	1 1/4	2,536.94	1 1/4	2,231.92	1 1/4	1,936.90	1 1/4	1,655.86
1 1/2	4,424.75	1 1/2	4,123.84	1 1/2	3,806.41	1 1/2	3,476.40	1 1/2	3,145.29	1 1/2	2,834.07	1 1/2	2,529.05	1 1/2	2,226.03	1 1/2	1,931.01	1 1/2	1,650.82
3/4	4,418.64	3/4	4,117.42	3/4	3,799.63	3/4	3,469.50	3/4	3,138.39	3/4	2,827.17	3/4	2,522.15	3/4	2,220.13	3/4	1,925.11	3/4	1,645.78
1	4,412.53	1	4,110.99	1	3,792.85	1	3,462.60	1	3,131.49	1	2,820.37	1	2,515.35	1	2,215.33	1	1,920.31	1	1,640.76
1 1/4	4,406.39	1 1/4	4,104.54	1 1/4	3,786.04	1 1/4	3,455.70	1 1/4	3,124.59	1 1/4	2,813.47	1 1/4	2,508.45	1 1/4	2,209.43	1 1/4	1,914.41	1 1/4	1,635.74
1 1/2	4,400.25	1 1/2	4,098.08	1 1/2	3,779.24	1 1/2	3,448.81	1 1/2	3,117.69	1 1/2	2,806.78	1 1/2	2,501.76	1 1/2	2,202.74	1 1/2	1,907.72	1 1/2	1,630.70
3/4	4,394.11	3/4	4,091.63	3/4	3,772.43	3/4	3,441.91	3/4	3,110.79	3/4	2,799.67	3/4	2,494.65	3/4	2,195.63	3/4	1,900.61	3/4	1,625.68
1	4,387.98	1	4,085.18	1	3,765.62	1	3,435.01	1	3,103.90	1	2,792.86	1	2,487.84	1	2,188.82	1	1,893.80	1	1,620.66
1 1/4	4,381.81	1 1/4	4,078.70	1 1/4	3,758.79	1 1/4	3,428.11	1 1/4	3,097.00	1 1/4	2,785.88	1 1/4	2,480.86	1 1/4	2,181.84	1 1/4	1,886.82	1 1/4	1,615.64
1 1/2	4,375.65	1 1/2	4,072.22	1 1/2	3,751.96	1 1/2	3,421.21	1 1/2	3,090.10	1 1/2	2,778.98	1 1/2	2,473.96	1 1/2	2,174.94	1 1/2	1,879.92	1 1/2	1,610.62
3/4	4,369.48	3/4	4,065.74	3/4	3,745.13	3/4	3,414.32	3/4	3,083.20	3/4	2,772.15	3/4	2,467.13	3/4	2,168.11	3/4	1,873.90	3/4	1,605.60
1	4,363.32	1	4,059.27	1	3,738.29	1	3,407.42	1	3,076.30	1	2,765.33	1	2,460.31	1	2,161.29	1	1,868.88	1	1,600.58
1 1/4	4,357.13	1 1/4	4,052.74	1 1/4	3,731.43	1 1/4	3,400.52	1 1/4	3,069.41	1 1/4	2,758.49	1 1/4	2,453.47	1 1/4	2,154.45	1 1/4	1,860.86	1 1/4	1,595.56
1 1/2	4,350.94	1 1/2	4,046.22	1 1/2	3,724.57	1 1/2	3,393.62	1 1/2	3,062.51	1 1/2	2,751.62	1 1/2	2,446.60	1 1/2	2,147.58	1 1/2	1,853.94	1 1/2	1,590.54
3/4	4,344.75	3/4	4,039.69	3/4	3,717.72	3/4	3,386.72	3/4	3,055.61	3/4	2,744.71	3/4	2,439.69	3/4	2,140.67	3/4	1,848.92	3/4	1,585.52
1	4,338.56	1	4,033.17	1	3,710.86	1	3,379.82	1	3,048.71	1	2,737.80	1	2,432.78	1	2,133.76	1	1,842.90	1	1,580.50
1 1/4	4,332.34	1 1/4	4,026.60	1 1/4	3,703.98	1 1/4	3,372.93	1 1/4	3,041.81	1 1/4	2,730.89	1 1/4	2,425.87	1 1/4	2,126.85	1 1/4	1,837.88	1 1/4	1,575.48
1 1/2	4,326.13	1 1/2	4,020.03	1 1/2	3,697.12	1 1/2	3,366.03	1 1/2	3,034.91	1 1/2	2,723.96	1 1/2	2,418.94	1 1/2	2,120.92	1 1/2	1,832.86	1 1/2	1,570.46
3/4	4,319.91	3/4	4,013.46	3/4	3,690.21	3/4	3,359.13	3/4	3,028.02	3/4	2,717.04	3/4	2,412.02	3/4	2,114.90	3/4	1,827.84	3/4	1,565.44
1	4,313.69	1	4,006.88	1	3,683.33	1	3,352.23	1	3,021.12	1	2,710.12	1	2,405.10	1	2,108.98	1	1,822.82	1	1,560.42
1 1/4	4,307.45	1 1/4	4,000.29	1 1/4	3,676.44	1 1/4	3,345.33	1 1/4	3,014.22	1 1/4	2,703.21	1 1/4	2,398.19	1 1/4	2,102.06	1 1/4	1,817.90	1 1/4	1,555.40
1 1/2	4,301.21	1 1/2	3,993.69	1 1/2	3,669.54	1 1/2	3,338.44	1 1/2	3,007.32	1 1/2	2,696.30	1 1/2	2,391.28	1 1/2	2,095.04	1 1/2	1,812.88	1 1/2	1,550.38
3/4	4,294.96	3/4	3,987.09	3/4	3,662.65	3/4	3,331.54	3/4	3,000.42	3/4	2,689.42	3/4	2,388.36	3/4	2,092.06	3/4	1,807.86	3/4	1,545.36

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT

& ANALYSIS, INC.

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<http://www.pma-inc.com>



BARGE "EMS 531"

1 PORT
ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-06"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
1/4	1,668.91	1/4	1,337.67	1/4	1,006.78	1/4	690.73	1/4	397.99	1/4	127.27	1/4		1/4		1/4		1/4	
1/2	1,662.01	1/2	1,330.77	1/2	999.96	1/2	684.42	1/2	392.13	1/2	121.89	1/2		1/2		1/2		1/2	
3/4	1,655.11	3/4	1,323.87	3/4	993.18	3/4	678.11	3/4	386.27	3/4	116.50	3/4		3/4		3/4		3/4	
1	1,648.21	1	1,316.97	1	986.37	1	671.80	1	380.42	1	111.12	1		1		1		1	
1/4	1,641.31	1/4	1,310.07	1/4	979.57	1/4	665.49	1/4	374.56	1/4	105.73	1/4		1/4		1/4		1/4	
1/2	1,634.41	1/2	1,303.16	1/2	972.81	1/2	659.23	1/2	368.74	1/2	100.39	1/2		1/2		1/2		1/2	
3/4	1,627.51	3/4	1,296.26	3/4	966.04	3/4	652.96	3/4	362.92	3/4	95.04	3/4		3/4		3/4		3/4	
1	1,620.61	1	1,289.36	1	959.28	1	646.69	1	357.10	1	89.70	1		1		1		1	
1/4	1,613.70	1/4	1,282.46	1/4	952.52	1/4	640.42	1/4	351.29	1/4	84.35	1/4		1/4		1/4		1/4	
1/2	1,606.80	1/2	1,275.56	1/2	945.79	1/2	634.19	1/2	345.51	1/2	79.05	1/2		1/2		1/2		1/2	
3/4	1,599.90	3/4	1,268.66	3/4	939.07	3/4	627.96	3/4	339.73	3/4	73.74	3/4		3/4		3/4		3/4	
1	1,593.00	1	1,261.76	1	932.35	1	621.73	1	333.95	1	68.43	1		1		1		1	
1/4	1,586.10	1/4	1,254.86	1/4	925.62	1/4	615.50	1/4	328.18	1/4	63.13	1/4		1/4		1/4		1/4	
1/2	1,579.20	1/2	1,247.96	1/2	918.94	1/2	609.31	1/2	322.44	1/2	57.86	1/2		1/2		1/2		1/2	
3/4	1,572.30	3/4	1,241.06	3/4	912.25	3/4	603.12	3/4	316.71	3/4	52.59	3/4		3/4		3/4		3/4	
1	1,565.40	1	1,234.16	1	905.57	1	596.93	1	310.97	1	47.33	1		1		1		1	
1/4	1,558.50	1/4	1,227.25	1/4	898.89	1/4	590.74	1/4	305.24	1/4	42.06	1/4		1/4		1/4		1/4	
1/2	1,551.60	1/2	1,220.35	1/2	892.24	1/2	584.59	1/2	299.54	1/2	37.41	1/2		1/2		1/2		1/2	
3/4	1,544.70	3/4	1,213.45	3/4	885.60	3/4	578.44	3/4	293.85	3/4	32.76	3/4		3/4		3/4		3/4	
1	1,537.79	1	1,206.55	1	878.95	1	572.29	1	288.15	1	28.10	1		1		1		1	
1/4	1,530.89	1/4	1,199.65	1/4	872.31	1/4	566.16	1/4	282.46	1/4	23.45	1/4		1/4		1/4		1/4	
1/2	1,523.99	1/2	1,192.75	1/2	865.70	1/2	560.04	1/2	276.80	1/2	20.13	1/2		1/2		1/2		1/2	
3/4	1,517.09	3/4	1,185.85	3/4	859.09	3/4	553.93	3/4	271.12	3/4	16.80	3/4		3/4		3/4		3/4	
1	1,510.19	1	1,178.95	1	852.49	1	547.82	1	265.48	1	13.47	1		1		1		1	
1/4	1,503.29	1/4	1,172.05	1/4	845.88	1/4	541.71	1/4	259.82	1/4	10.15	1/4		1/4		1/4		1/4	
1/2	1,496.39	1/2	1,165.15	1/2	839.32	1/2	535.64	1/2	254.20	1/2		1/2		1/2		1/2		1/2	
3/4	1,489.49	3/4	1,158.25	3/4	832.75	3/4	529.57	3/4	248.58	3/4		3/4		3/4		3/4		3/4	
1	1,482.59	1	1,151.34	1	826.18	1	523.50	1	242.96	1		1		1		1		1	
1/4	1,475.69	1/4	1,144.44	1/4	819.62	1/4	517.43	1/4	237.34	1/4		1/4		1/4		1/4		1/4	
1/2	1,468.79	1/2	1,137.54	1/2	813.09	1/2	511.39	1/2	231.75	1/2		1/2		1/2		1/2		1/2	
3/4	1,461.89	3/4	1,130.64	3/4	806.56	3/4	505.35	3/4	226.17	3/4		3/4		3/4		3/4		3/4	
1	1,454.98	1	1,123.74	1	800.04	1	499.31	1	220.59	1		1		1		1		1	
1/4	1,448.08	1/4	1,116.84	1/4	793.51	1/4	493.27	1/4	215.01	1/4		1/4		1/4		1/4		1/4	
1/2	1,441.18	1/2	1,109.94	1/2	787.02	1/2	487.26	1/2	209.47	1/2		1/2		1/2		1/2		1/2	
3/4	1,434.28	3/4	1,103.04	3/4	780.54	3/4	481.25	3/4	203.92	3/4		3/4		3/4		3/4		3/4	
1	1,427.38	1	1,096.14	1	774.05	1	475.23	1	198.38	1		1		1		1		1	
1/4	1,420.48	1/4	1,089.24	1/4	767.56	1/4	469.22	1/4	192.84	1/4		1/4		1/4		1/4		1/4	
1/2	1,413.58	1/2	1,082.34	1/2	761.11	1/2	463.25	1/2	187.34	1/2		1/2		1/2		1/2		1/2	
3/4	1,406.68	3/4	1,075.44	3/4	754.67	3/4	457.27	3/4	181.83	3/4		3/4		3/4		3/4		3/4	
1	1,399.78	1	1,068.55	1	748.22	1	451.30	1	176.33	1		1		1		1		1	
1/4	1,392.88	1/4	1,061.65	1/4	741.77	1/4	445.32	1/4	170.83	1/4		1/4		1/4		1/4		1/4	
1/2	1,385.98	1/2	1,054.78	1/2	735.36	1/2	439.38	1/2	165.36	1/2		1/2		1/2		1/2		1/2	
3/4	1,379.07	3/4	1,047.90	3/4	728.96	3/4	433.45	3/4	159.90	3/4		3/4		3/4		3/4		3/4	
1	1,372.17	1	1,041.02	1	722.55	1	427.51	1	154.44	1		1		1		1		1	
1/4	1,365.27	1/4	1,034.15	1/4	716.15	1/4	421.58	1/4	148.97	1/4		1/4		1/4		1/4		1/4	
1/2	1,358.37	1/2	1,027.31	1/2	709.79	1/2	415.68	1/2	143.55	1/2		1/2		1/2		1/2		1/2	
3/4	1,351.47	3/4	1,020.46	3/4	703.44	3/4	409.78	3/4	138.12	3/4		3/4		3/4		3/4		3/4	
1	1,344.57	1	1,013.62	1	697.08	1	403.88	1	132.70	1		1		1		1		1	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/08/2024 JS
CALCULATED: 10/08/2024 CL
PRINTED: 10/08/2024 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2024

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



BARGE "EMS 531"

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-06"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	4,573.88	0	4,276.60	0	3,969.18	0	3,645.27	0	3,315.00	0	2,984.74	0	2,654.47	0	2,324.20	0	1,993.91
1/4	1/4	1/4	4,569.10	1/4	4,270.35	1/4	3,962.57	1/4	3,638.39	1/4	3,308.12	1/4	2,977.86	1/4	2,647.59	1/4	2,317.32	1/4	1,987.03
1/2	1/2	1/2	4,564.33	1/2	4,264.09	1/2	3,955.97	1/2	3,631.51	1/2	3,301.24	1/2	2,970.98	1/2	2,640.71	1/2	2,310.44	1/2	1,980.14
3/4	3/4	3/4	4,559.55	3/4	4,257.84	3/4	3,949.36	3/4	3,624.63	3/4	3,294.36	3/4	2,964.10	3/4	2,633.82	3/4	2,303.56	3/4	1,973.26
1	1	1	4,554.78	1	4,251.59	1	3,942.76	1	3,617.75	1	3,287.48	1	2,957.22	1	2,626.94	1	2,296.68	1	1,966.38
1 1/4	1 1/4	1 1/4	4,548.71	1 1/4	4,245.31	1 1/4	3,936.12	1 1/4	3,610.86	1 1/4	3,280.60	1 1/4	2,950.34	1 1/4	2,620.06	1 1/4	2,289.79	1 1/4	1,959.49
1 1/2	1 1/2	1 1/2	4,542.64	1 1/2	4,239.03	1 1/2	3,929.49	1 1/2	3,603.98	1 1/2	3,273.72	1 1/2	2,943.57	1 1/2	2,613.18	1 1/2	2,282.61	1 1/2	1,952.61
3/4	3/4	3/4	4,536.88	3/4	4,232.75	3/4	3,922.86	3/4	3,597.22	3/4	3,266.84	3/4	2,936.84	3/4	2,606.30	3/4	2,276.03	3/4	1,945.73
2	2	2	4,530.51	2	4,226.47	2	3,916.23	2	3,590.57	2	3,259.96	2	2,929.59	2	2,599.42	2	2,269.15	2	1,938.85
1 3/4	1 3/4	1 3/4	4,523.76	1 3/4	4,220.17	1 3/4	3,909.57	1 3/4	3,583.34	1 3/4	3,253.08	1 3/4	2,922.81	1 3/4	2,592.54	1 3/4	2,262.27	1 3/4	1,931.96
1 1/2	1 1/2	1 1/2	4,517.00	1 1/2	4,213.86	1 1/2	3,902.91	1 1/2	3,576.46	1 1/2	3,246.20	1 1/2	2,915.93	1 1/2	2,585.66	1 1/2	2,255.39	1 1/2	1,925.08
3/4	3/4	3/4	4,510.35	3/4	4,207.56	3/4	3,896.25	3/4	3,569.58	3/4	3,239.32	3/4	2,909.05	3/4	2,578.78	3/4	2,248.51	3/4	1,918.20
3	3	3	4,503.49	3	4,201.26	3	3,889.59	3	3,562.70	3	3,232.44	3	2,902.17	3	2,571.90	3	2,241.63	3	1,911.31
1 1/4	1 1/4	1 1/4	4,496.65	1 1/4	4,194.92	1 1/4	3,882.91	1 1/4	3,555.82	1 1/4	3,225.56	1 1/4	2,895.29	1 1/4	2,565.02	1 1/4	2,234.75	1 1/4	1,904.43
1 1/2	1 1/2	1 1/2	4,489.81	1 1/2	4,188.59	1 1/2	3,876.22	1 1/2	3,548.94	1 1/2	3,218.68	1 1/2	2,888.41	1 1/2	2,558.14	1 1/2	2,227.87	1 1/2	1,897.55
3/4	3/4	3/4	4,482.97	3/4	4,182.26	3/4	3,869.54	3/4	3,542.06	3/4	3,211.80	3/4	2,881.53	3/4	2,551.26	3/4	2,220.99	3/4	1,890.66
4	4	4	4,476.13	4	4,175.93	4	3,862.86	4	3,535.18	4	3,204.92	4	2,874.65	4	2,544.38	4	2,214.11	4	1,883.78
1 3/4	1 3/4	1 3/4	4,469.48	1 3/4	4,169.57	1 3/4	3,856.15	1 3/4	3,528.30	1 3/4	3,198.03	1 3/4	2,867.77	1 3/4	2,537.50	1 3/4	2,207.23	1 3/4	1,876.90
1 1/2	1 1/2	1 1/2	4,462.83	1 1/2	4,163.22	1 1/2	3,849.44	1 1/2	3,521.42	1 1/2	3,191.15	1 1/2	2,860.88	1 1/2	2,530.62	1 1/2	2,200.35	1 1/2	1,870.01
3/4	3/4	3/4	4,456.19	3/4	4,156.86	3/4	3,842.72	3/4	3,514.54	3/4	3,184.27	3/4	2,854.00	3/4	2,523.74	3/4	2,193.47	3/4	1,863.13
5	5	5	4,449.54	5	4,150.50	5	3,836.01	5	3,507.66	5	3,177.39	5	2,847.12	5	2,516.85	5	2,186.59	5	1,856.25
1 1/4	1 1/4	1 1/4	4,443.27	1 1/4	4,144.12	1 1/4	3,829.28	1 1/4	3,500.78	1 1/4	3,170.51	1 1/4	2,840.24	1 1/4	2,509.97	1 1/4	2,179.71	1 1/4	1,849.36
1 1/2	1 1/2	1 1/2	4,437.00	1 1/2	4,137.74	1 1/2	3,822.54	1 1/2	3,493.90	1 1/2	3,163.63	1 1/2	2,833.36	1 1/2	2,503.09	1 1/2	2,172.82	1 1/2	1,842.48
3/4	3/4	3/4	4,430.73	3/4	4,131.35	3/4	3,815.80	3/4	3,487.02	3/4	3,156.75	3/4	2,826.48	3/4	2,496.21	3/4	2,165.94	3/4	1,835.56
6	6	6	4,424.46	6	4,124.97	6	3,809.07	6	3,480.14	6	3,149.87	6	2,819.60	6	2,489.33	6	2,159.06	6	1,828.71
1 3/4	1 3/4	1 3/4	4,418.37	1 3/4	4,118.56	1 3/4	3,802.30	1 3/4	3,473.25	1 3/4	3,142.99	1 3/4	2,812.72	1 3/4	2,482.45	1 3/4	2,152.18	1 3/4	1,821.83
1 1/2	1 1/2	1 1/2	4,412.27	1 1/2	4,112.15	1 1/2	3,796.54	1 1/2	3,466.37	1 1/2	3,136.11	1 1/2	2,805.84	1 1/2	2,475.57	1 1/2	2,145.30	1 1/2	1,814.95
3/4	3/4	3/4	4,406.18	3/4	4,105.74	3/4	3,788.78	3/4	3,459.49	3/4	3,129.23	3/4	2,798.96	3/4	2,468.69	3/4	2,138.42	3/4	1,808.06
7	7	7	4,400.08	7	4,099.33	7	3,782.02	7	3,452.31	7	3,122.35	7	2,792.08	7	2,461.81	7	2,131.54	7	1,801.18
1 1/4	1 1/4	1 1/4	4,393.96	1 1/4	4,092.90	1 1/4	3,775.23	1 1/4	3,445.73	1 1/4	3,115.47	1 1/4	2,785.20	1 1/4	2,454.93	1 1/4	2,124.66	1 1/4	1,794.30
1 1/2	1 1/2	1 1/2	4,387.84	1 1/2	4,086.46	1 1/2	3,768.44	1 1/2	3,438.85	1 1/2	3,108.59	1 1/2	2,778.32	1 1/2	2,448.05	1 1/2	2,117.78	1 1/2	1,787.41
3/4	3/4	3/4	4,381.71	3/4	4,080.03	3/4	3,761.65	3/4	3,431.97	3/4	3,101.71	3/4	2,771.44	3/4	2,441.17	3/4	2,110.90	3/4	1,780.53
8	8	8	4,375.59	8	4,073.59	8	3,754.86	8	3,425.09	8	3,094.83	8	2,764.56	8	2,434.29	8	2,104.02	8	1,773.65
1 3/4	1 3/4	1 3/4	4,369.45	1 3/4	4,067.13	1 3/4	3,748.04	1 3/4	3,418.21	1 3/4	3,087.95	1 3/4	2,757.68	1 3/4	2,427.41	1 3/4	2,097.14	1 3/4	1,766.77
1 1/2	1 1/2	1 1/2	4,363.30	1 1/2	4,060.67	1 1/2	3,741.23	1 1/2	3,411.33	1 1/2	3,081.07	1 1/2	2,750.80	1 1/2	2,420.53	1 1/2	2,090.26	1 1/2	1,759.88
3/4	3/4	3/4	4,357.15	3/4	4,054.21	3/4	3,734.41	3/4	3,404.45	3/4	3,074.19	3/4	2,743.91	3/4	2,413.65	3/4	2,083.38	3/4	1,753.00
9	9	9	4,351.00	9	4,047.74	9	3,727.60	9	3,397.57	9	3,067.31	9	2,737.03	9	2,406.77	9	2,076.50	9	1,746.12
1 1/4	1 1/4	1 1/4	4,344.83	1 1/4	4,041.24	1 1/4	3,720.76	1 1/4	3,390.69	1 1/4	3,060.42	1 1/4	2,730.15	1 1/4	2,399.88	1 1/4	2,069.62	1 1/4	1,739.23
1 1/2	1 1/2	1 1/2	4,338.65	1 1/2	4,034.73	1 1/2	3,713.92	1 1/2	3,383.81	1 1/2	3,053.54	1 1/2	2,723.27	1 1/2	2,393.00	1 1/2	2,062.74	1 1/2	1,732.35
3/4	3/4	3/4	4,332.48	3/4	4,028.22	3/4	3,707.08	3/4	3,376.93	3/4	3,046.66	3/4	2,716.39	3/4	2,386.12	3/4	2,055.85	3/4	1,725.47
10	10	10	4,326.31	10	4,021.71	10	3,700.23	10	3,370.05	10	3,039.78	10	2,709.51	10	2,379.24	10	2,049.09	10	1,718.58
1 1/4	1 1/4	1 1/4	4,320.11	1 1/4	4,015.16	1 1/4	3,693.37	1 1/4	3,363.17	1 1/4	3,032.90	1 1/4	2,702.63	1 1/4	2,372.36	1 1/4	2,042.97	1 1/4	1,711.70
1 1/2	1 1/2	1 1/2	4,313.90	1 1/2	4,008.61	1 1/2	3,686.51	1 1/2	3,356.29	1 1/2	3,026.02	1 1/2	2,695.75	1 1/2	2,365.48	1 1/2	2,035.21	1 1/2	1,704.82
3/4	3/4	3/4	4,307.70	3/4	4,002.05	3/4	3,679.64	3/4	3,349.41	3/4	3,019.14	3/4	2,688.87	3/4	2,358.60	3/4	2,028.33	3/4	1,697.93
11	11	11	4,301.58	11	3,995.50	11	3,672.78	11	3,342.53	11	3,012.26	11	2,681.99	11	2,351.72	11	2,021.44	11	1,691.05
1 1/4	1 1/4	1 1/4	4,295.20	1 1/4	3,988.92	1 1/4	3,665.90	1 1/4	3,335.64	1 1/4	3,005.38	1 1/4	2,675.11	1 1/4	2,344.84	1 1/4	2,014.56	1 1/4	1,684.17
1 1/2	1 1/2	1 1/2	4,289.05	1 1/2	3,982.34	1 1/2	3,659.02	1 1/2	3,328.76	1 1/2	2,998.50	1 1/2	2,668.23	1 1/2	2,337.96	1 1/2	2,007.68	1 1/2	1,677.28
3/4	3/4	3/4	4,282.83	3/4	3,975.76	3/4	3,652.14	3/4	3,321.88	3/4	2,991.62	3/4	2,661.35	3/4	2,331.08	3/4	2,000.79	3/4	1,670.40

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MEMS CHAPTER 2.7.
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP OF 2" DIAMETER "HERMETIC" VALVE.
GAUGE POINT: (HERMETIC) LOCATED 10'-09" OFF CENTERLINE AND 44'-06" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT

& ANALYSIS, INC.

P.O. Box 2092

Pasadena, Texas 77588

<http://www.pma-inc.com>



BARGE "EMS 531"

1 STBD
ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-06"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
1/4	1,663.52	1/4	1,333.12	1/4	1,003.13	1/4	688.87	1/4	396.91	1/4	126.93	1/4		1/4		1/4		1/4	
1/2	1,656.63	1/2	1,326.24	1/2	996.36	1/2	682.58	1/2	391.07	1/2	121.56	1/2		1/2		1/2		1/2	
3/4	1,649.75	3/4	1,319.36	3/4	989.60	3/4	676.29	3/4	385.23	3/4	116.19	3/4		3/4		3/4		3/4	
1	1,642.87	1	1,312.47	1	982.84	1	670.00	1	379.38	1	110.82	1		1		1		1	
1/4	1,635.98	1/4	1,305.59	1/4	976.07	1/4	663.71	1/4	373.54	1/4	105.45	1/4		1/4		1/4		1/4	
1/2	1,629.10	1/2	1,298.71	1/2	969.35	1/2	657.45	1/2	367.74	1/2	100.12	1/2		1/2		1/2		1/2	
3/4	1,622.22	3/4	1,291.82	3/4	962.62	3/4	651.20	3/4	361.94	3/4	94.79	3/4		3/4		3/4		3/4	
1	1,615.33	1	1,284.94	1	955.90	1	644.95	1	356.13	1	89.46	1		1		1		1	
1/4	1,608.45	1/4	1,278.06	1/4	949.17	1/4	638.70	1/4	350.33	1/4	84.12	1/4		1/4		1/4		1/4	
1/2	1,601.57	1/2	1,271.17	1/2	942.49	1/2	632.48	1/2	344.57	1/2	78.83	1/2		1/2		1/2		1/2	
3/4	1,594.69	3/4	1,264.29	3/4	935.80	3/4	626.27	3/4	338.81	3/4	73.54	3/4		3/4		3/4		3/4	
1	1,587.80	1	1,257.41	1	929.12	1	620.06	1	333.05	1	68.25	1		1		1		1	
1/4	1,580.92	1/4	1,250.53	1/4	922.43	1/4	613.85	1/4	327.29	1/4	62.96	1/4		1/4		1/4		1/4	
1/2	1,574.04	1/2	1,243.64	1/2	915.79	1/2	607.67	1/2	321.57	1/2	57.71	1/2		1/2		1/2		1/2	
3/4	1,567.15	3/4	1,236.76	3/4	909.14	3/4	601.50	3/4	315.85	3/4	52.45	3/4		3/4		3/4		3/4	
1	1,560.27	1	1,229.88	1	902.50	1	595.32	1	310.13	1	47.20	1		1		1		1	
1/4	1,553.39	1/4	1,222.99	1/4	895.85	1/4	589.15	1/4	304.41	1/4	41.95	1/4		1/4		1/4		1/4	
1/2	1,546.50	1/2	1,216.11	1/2	889.24	1/2	583.02	1/2	298.73	1/2	37.31	1/2		1/2		1/2		1/2	
3/4	1,539.62	3/4	1,209.23	3/4	882.64	3/4	576.88	3/4	293.05	3/4	32.67	3/4		3/4		3/4		3/4	
1	1,532.74	1	1,202.34	1	876.03	1	570.75	1	287.37	1	28.03	1		1		1		1	
1/4	1,525.85	1/4	1,195.46	1/4	869.42	1/4	564.62	1/4	281.69	1/4	23.39	1/4		1/4		1/4		1/4	
1/2	1,518.97	1/2	1,188.58	1/2	862.86	1/2	558.53	1/2	276.04	1/2	20.08	1/2		1/2		1/2		1/2	
3/4	1,512.09	3/4	1,181.69	3/4	856.29	3/4	552.43	3/4	270.40	3/4	16.76	3/4		3/4		3/4		3/4	
1	1,505.20	1	1,174.81	1	849.72	1	546.34	1	264.76	1	13.44	1		1		1		1	
1/4	1,498.32	1/4	1,167.93	1/4	843.16	1/4	540.25	1/4	259.11	1/4	10.13	1/4		1/4		1/4		1/4	
1/2	1,491.44	1/2	1,161.04	1/2	836.63	1/2	534.20	1/2	253.51	1/2		1/2		1/2		1/2		1/2	
3/4	1,484.55	3/4	1,154.16	3/4	830.10	3/4	528.14	3/4	247.90	3/4		3/4		3/4		3/4		3/4	
1	1,477.67	1	1,147.28	1	823.57	1	522.09	1	242.30	1		1		1		1		1	
1/4	1,470.79	1/4	1,140.39	1/4	817.04	1/4	516.03	1/4	236.69	1/4	7	1/4		1/4		1/4		1/4	
1/2	1,463.90	1/2	1,133.51	1/2	810.56	1/2	510.01	1/2	231.12	1/2		1/2		1/2		1/2		1/2	
3/4	1,457.02	3/4	1,126.63	3/4	804.07	3/4	503.98	3/4	225.56	3/4		3/4		3/4		3/4		3/4	
1	1,450.14	1	1,119.74	1	797.58	1	497.96	1	219.99	1		1		1		1		1	
1/4	1,443.25	1/4	1,112.86	1/4	791.09	1/4	491.94	1/4	214.42	1/4	8	1/4		1/4		1/4		1/4	
1/2	1,436.37	1/2	1,105.98	1/2	784.64	1/2	485.94	1/2	208.90	1/2		1/2		1/2		1/2		1/2	
3/4	1,429.49	3/4	1,099.09	3/4	778.19	3/4	479.94	3/4	203.37	3/4		3/4		3/4		3/4		3/4	
1	1,422.61	1	1,092.21	1	771.74	1	473.95	1	197.84	1		1		1		1		1	
1/4	1,415.72	1/4	1,085.33	1/4	765.29	1/4	467.95	1/4	192.31	1/4	9	1/4		1/4		1/4		1/4	
1/2	1,408.84	1/2	1,078.45	1/2	758.88	1/2	461.99	1/2	186.83	1/2		1/2		1/2		1/2		1/2	
3/4	1,401.96	3/4	1,071.57	3/4	752.47	3/4	456.03	3/4	181.34	3/4		3/4		3/4		3/4		3/4	
1	1,395.07	1	1,064.69	1	746.06	1	450.07	1	175.85	1		1		1		1		1	
1/4	1,388.19	1/4	1,057.82	1/4	739.65	1/4	444.11	1/4	170.36	1/4	10	1/4		1/4		1/4		1/4	
1/2	1,381.31	1/2	1,050.96	1/2	733.29	1/2	438.19	1/2	164.91	1/2		1/2		1/2		1/2		1/2	
3/4	1,374.42	3/4	1,044.10	3/4	726.92	3/4	432.27	3/4	159.46	3/4		3/4		3/4		3/4		3/4	
1	1,367.54	1	1,037.24	1	720.55	1	426.35	1	154.02	1		1		1		1		1	
1/4	1,360.66	1/4	1,030.38	1/4	714.18	1/4	420.43	1/4	148.57	1/4	11	1/4		1/4		1/4		1/4	
1/2	1,353.77	1/2	1,023.57	1/2	707.86	1/2	414.55	1/2	143.16	1/2		1/2		1/2		1/2		1/2	
3/4	1,346.89	3/4	1,016.75	3/4	701.53	3/4	408.67	3/4	137.75	3/4		3/4		3/4		3/4		3/4	
1	1,340.01	1	1,009.94	1	695.20	1	402.79	1	132.34	1		1		1		1		1	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/08/2024 JS
CALCULATED: 10/08/2024 CL
PRINTED: 10/09/2024 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2024

PRECISION MEASUREMENT
& ANALYSIS, INC.

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



BARGE "EMS 531"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
0																			
1/4	5,566.61	1/4	5,216.55	1/4	5,223.88	1/4	4,862.30	1/4	4,481.21	1/4	4,092.30	1/4	3,703.39	1/4	3,314.46	1/4	2,925.54	1/4	2,536.60
1/2	5,560.99	1/2	5,209.18	1/2	4,866.77	1/2	4,475.08	1/2	4,085.11	1/2	3,696.20	1/2	3,307.29	1/2	2,918.36	1/2	2,529.44	1/2	2,140.50
3/4	5,555.36	3/4	5,201.82	3/4	4,858.99	3/4	4,468.91	3/4	4,076.10	3/4	3,687.18	3/4	3,298.26	3/4	2,909.34	3/4	2,520.42	3/4	2,131.58
1	5,549.74	1	5,194.46	1	4,853.21	1	4,463.43	1	4,070.70	1	3,681.98	1	3,293.06	1	2,904.14	1	2,515.22	1	2,126.30
1/4	5,544.12	1/4	5,187.10	1/4	4,848.37	1/4	4,458.40	1/4	4,065.77	1/4	3,676.85	1/4	3,287.93	1/4	2,899.01	1/4	2,510.09	1/4	2,117.38
1/2	5,538.97	1/2	5,179.70	1/2	4,843.62	1/2	4,453.65	1/2	4,061.28	1/2	3,674.36	1/2	3,285.44	1/2	2,896.52	1/2	2,505.17	1/2	2,112.46
3/4	5,528.83	3/4	5,172.31	3/4	4,807.81	3/4	4,448.81	3/4	4,059.89	3/4	3,670.98	3/4	3,281.06	3/4	2,892.14	3/4	2,500.25	3/4	2,107.55
2	5,522.68	2	5,164.92	2	4,800.00	2	4,441.50	2	4,051.79	2	3,662.87	2	3,273.95	2	2,885.03	2	2,496.11	2	2,102.64
1/4	5,515.54	1/4	5,157.52	1/4	4,792.19	1/4	4,436.43	1/4	4,046.29	1/4	3,653.46	1/4	3,264.54	1/4	2,875.62	1/4	2,486.70	1/4	2,097.78
1/2	5,507.59	1/2	5,150.10	1/2	4,784.35	1/2	4,431.51	1/2	4,041.19	1/2	3,648.57	1/2	3,260.60	1/2	2,871.68	1/2	2,481.78	1/2	2,092.88
3/4	5,499.63	3/4	5,142.68	3/4	4,776.51	3/4	4,426.54	3/4	4,036.29	3/4	3,643.60	3/4	3,255.66	3/4	2,866.74	3/4	2,476.86	3/4	2,087.96
3	5,491.68	3	5,135.25	3	4,768.67	3	4,421.58	3	4,031.58	3	3,638.66	3	3,250.74	3	2,861.82	3	2,471.92	3	2,083.02
1/4	5,483.72	1/4	5,127.83	1/4	4,760.83	1/4	4,416.66	1/4	4,026.66	1/4	3,633.74	1/4	3,245.82	1/4	2,856.90	1/4	2,467.00	1/4	2,078.10
1/2	5,475.67	1/2	5,120.37	1/2	4,752.96	1/2	4,411.74	1/2	4,021.74	1/2	3,628.82	1/2	3,240.89	1/2	2,852.00	1/2	2,462.10	1/2	2,073.20
3/4	5,467.61	3/4	5,112.92	3/4	4,745.08	3/4	4,406.82	3/4	4,016.82	3/4	3,623.90	3/4	3,235.96	3/4	2,847.08	3/4	2,457.20	3/4	2,068.30
4	5,459.56	4	5,105.46	4	4,737.21	4	4,397.21	4	4,011.82	4	3,618.96	4	3,231.04	4	2,842.16	4	2,452.30	4	2,063.40
1/4	5,451.50	1/4	5,098.01	1/4	4,729.34	1/4	4,392.34	1/4	4,006.82	1/4	3,613.96	1/4	3,226.10	1/4	2,837.24	1/4	2,447.40	1/4	2,058.50
1/2	5,443.67	1/2	5,090.52	1/2	4,721.44	1/2	4,387.44	1/2	4,001.82	1/2	3,608.96	1/2	3,221.16	1/2	2,832.30	1/2	2,442.50	1/2	2,053.60
3/4	5,435.84	3/4	5,083.04	3/4	4,713.54	3/4	4,382.54	3/4	4,001.82	3/4	3,603.96	3/4	3,216.20	3/4	2,827.36	3/4	2,437.60	3/4	2,048.70
5	5,428.02	5	5,075.55	5	4,705.63	5	4,377.73	5	4,319.17	5	3,930.25	5	3,541.33	5	3,152.41	5	2,763.49	5	2,374.57
1/4	5,420.19	1/4	5,068.06	1/4	4,697.73	1/4	4,372.83	1/4	4,314.27	1/4	3,925.33	1/4	3,536.41	1/4	3,147.49	1/4	2,758.57	1/4	2,369.65
1/2	5,412.81	1/2	5,060.55	1/2	4,689.80	1/2	4,367.90	1/2	4,309.26	1/2	3,920.41	1/2	3,531.49	1/2	3,142.57	1/2	2,753.65	1/2	2,364.73
3/4	5,405.42	3/4	5,053.03	3/4	4,681.87	3/4	4,362.96	3/4	4,304.36	3/4	3,915.46	3/4	3,526.54	3/4	3,137.62	3/4	2,748.73	3/4	2,359.81
6	5,398.04	6	5,045.52	6	4,673.93	6	4,357.93	6	4,299.37	6	3,906.50	6	3,521.62	6	3,132.70	6	2,743.81	6	2,354.89
1/4	5,390.66	1/4	5,038.00	1/4	4,666.00	1/4	4,352.93	1/4	4,294.37	1/4	3,899.54	1/4	3,516.70	1/4	3,127.78	1/4	2,738.89	1/4	2,349.97
1/2	5,383.48	1/2	5,030.45	1/2	4,658.04	1/2	4,347.93	1/2	4,289.37	1/2	3,894.60	1/2	3,511.78	1/2	3,122.86	1/2	2,733.97	1/2	2,345.05
3/4	5,376.31	3/4	5,022.90	3/4	4,650.07	3/4	4,342.93	3/4	4,284.37	3/4	3,889.66	3/4	3,506.86	3/4	3,117.94	3/4	2,729.05	3/4	2,340.13
7	5,369.13	7	5,015.36	7	4,642.11	7	4,337.93	7	4,279.37	7	3,884.74	7	3,501.94	7	3,112.94	7	2,724.13	7	2,335.21
1/4	5,361.95	1/4	5,007.81	1/4	4,634.14	1/4	4,332.93	1/4	4,274.37	1/4	3,879.82	1/4	3,500.02	1/4	3,107.94	1/4	2,719.21	1/4	2,330.29
1/2	5,354.74	1/2	5,000.23	1/2	4,626.15	1/2	4,327.93	1/2	4,269.41	1/2	3,874.90	1/2	3,495.10	1/2	3,102.94	1/2	2,714.29	1/2	2,325.37
3/4	5,347.53	3/4	4,992.65	3/4	4,618.15	3/4	4,322.93	3/4	4,264.41	3/4	3,869.98	3/4	3,490.18	3/4	3,097.94	3/4	2,709.37	3/4	2,320.45
8	5,340.32	8	4,985.08	8	4,610.16	8	4,317.93	8	4,259.41	8	3,864.98	8	3,485.18	8	3,092.94	8	2,704.45	8	2,315.53
1/4	5,333.12	1/4	4,977.50	1/4	4,602.17	1/4	4,312.93	1/4	4,254.41	1/4	3,860.06	1/4	3,480.26	1/4	3,087.94	1/4	2,699.53	1/4	2,310.61
1/2	5,325.88	1/2	4,969.89	1/2	4,594.14	1/2	4,307.93	1/2	4,249.41	1/2	3,855.14	1/2	3,475.36	1/2	3,082.94	1/2	2,694.61	1/2	2,305.69
3/4	5,318.64	3/4	4,962.28	3/4	4,586.11	3/4	4,302.93	3/4	4,244.41	3/4	3,850.22	3/4	3,470.46	3/4	3,077.94	3/4	2,689.69	3/4	2,300.77
9	5,311.40	9	4,954.67	9	4,578.09	9	4,297.93	9	4,239.41	9	3,845.30	9	3,465.56	9	3,072.94	9	2,684.77	9	2,295.85
1/4	5,304.16	1/4	4,947.06	1/4	4,570.06	1/4	4,292.93	1/4	4,234.41	1/4	3,840.38	1/4	3,460.64	1/4	3,067.94	1/4	2,679.85	1/4	2,290.93
1/2	5,296.89	1/2	4,939.40	1/2	4,562.01	1/2	4,287.93	1/2	4,229.41	1/2	3,835.46	1/2	3,455.70	1/2	3,062.94	1/2	2,674.93	1/2	2,286.01
3/4	5,289.62	3/4	4,931.74	3/4	4,553.95	3/4	4,282.93	3/4	4,224.41	3/4	3,830.54	3/4	3,450.78	3/4	3,057.94	3/4	2,670.01	3/4	2,281.09
10	5,282.35	10	4,924.07	10	4,545.90	10	4,277.93	10	4,219.41	10	3,825.62	10	3,445.86	10	3,052.94	10	2,665.09	10	2,276.17
1/4	5,275.08	1/4	4,916.41	1/4	4,537.84	1/4	4,272.93	1/4	4,214.41	1/4	3,820.70	1/4	3,440.94	1/4	3,047.94	1/4	2,660.17	1/4	2,271.25
1/2	5,267.78	1/2	4,908.69	1/2	4,529.76	1/2	4,267.93	1/2	4,209.41	1/2	3,815.78	1/2	3,436.02	1/2	3,042.94	1/2	2,655.25	1/2	2,266.33
3/4	5,260.48	3/4	4,900.98	3/4	4,521.67	3/4	4,262.93	3/4	4,204.41	3/4	3,810.86	3/4	3,431.10	3/4	3,037.94	3/4	2,650.33	3/4	2,261.41
11	5,253.17	11	4,893.26	11	4,513.59	11	4,257.93	11	4,199.41	11	3,805.94	11	3,426.18	11	3,032.94	11	2,645.41	11	2,256.49
1/4	5,245.87	1/4	4,885.54	1/4	4,505.51	1/4	4,252.93	1/4	4,194.41	1/4	3,801.02	1/4	3,421.26	1/4	3,027.94	1/4	2,640.49	1/4	2,251.57
1/2	5,238.54	1/2	4,877.79	1/2	4,497.41	1/2	4,247.93	1/2	4,189.41	1/2	3,796.10	1/2	3,416.34	1/2	3,022.94	1/2	2,635.57	1/2	2,246.65
3/4	5,231.21	3/4	4,870.04	3/4	4,489.31	3/4	4,242.93	3/4	4,184.41	3/4	3,791.18	3/4	3,411.42	3/4	3,017.94	3/4	2,630.65	3/4	2,241.73

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH IMPMS 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 TO TOP LIP OF 2" DIAMETER "HERMETIC" VALVE.
GAUGE POINT: (HERMETIC) LOCATED 10'-08" OFF CENTERLINE AND 51'-03" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT

& ANALYSIS, INC.

P.O. Box 2092

Peartland, Texas 77586

<http://www.pma-inc.net>



BARGE "EMS 531"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-06 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,147.53	0	1,758.46	0	1,369.39	0	980.38	0	592.03	0	203.01	0		0					
1/4	2,139.43	1/4	1,750.36	1/4	1,361.29	1/4	972.29	1/4	583.93	1/4	194.90	1/4		1/4				1/4	
1/2	2,131.32	1/2	1,742.25	1/2	1,356.18	1/2	964.21	1/2	575.82	1/2	186.80	1/2		1/2				1/2	
3/4	2,123.21	3/4	1,734.15	3/4	1,350.08	3/4	956.12	3/4	567.71	3/4	178.69	3/4		3/4				3/4	
1	2,115.11	1	1,726.04	1	1,336.97	1	948.04	1	559.61	1	170.59	1		1				1	
1/4	2,107.00	1/4	1,717.93	1/4	1,328.87	1/4	939.95	1/4	551.50	1/4	162.48	1/4		1/4				1/4	
1/2	2,098.90	1/2	1,709.83	1/2	1,320.76	1/2	931.87	1/2	543.40	1/2	154.38	1/2		1/2				1/2	
3/4	2,090.79	3/4	1,701.72	3/4	1,312.65	3/4	923.79	3/4	535.29	3/4	146.27	3/4		3/4				3/4	
2	2,082.69	2	1,693.62	2	1,304.55	2	915.70	2	527.19	2	138.16	2		2				2	
1/4	2,074.58	1/4	1,685.51	1/4	1,296.44	1/4	907.62	1/4	519.08	1/4	130.06	1/4		1/4				1/4	
1/2	2,066.48	1/2	1,677.41	1/2	1,288.34	1/2	899.54	1/2	510.98	1/2	121.95	1/2		1/2				1/2	
3/4	2,058.37	3/4	1,669.30	3/4	1,280.23	3/4	891.45	3/4	502.87	3/4	113.85	3/4		3/4				3/4	
3	2,050.26	3	1,661.20	3	1,272.13	3	883.37	3	494.77	3	105.74	3		3				3	
1/4	2,042.16	1/4	1,653.09	1/4	1,264.02	1/4	875.29	1/4	486.66	1/4	97.64	1/4		1/4				1/4	
1/2	2,034.05	1/2	1,644.98	1/2	1,255.92	1/2	867.20	1/2	478.56	1/2	89.53	1/2		1/2				1/2	
3/4	2,025.95	3/4	1,636.88	3/4	1,247.81	3/4	859.12	3/4	470.46	3/4	81.42	3/4		3/4				3/4	
4	2,017.84	4	1,628.77	4	1,239.70	4	851.03	4	462.36	4	73.32	4		4				4	
1/4	2,009.74	1/4	1,620.67	1/4	1,231.60	1/4	842.95	1/4	454.26	1/4	65.21	1/4		1/4				1/4	
1/2	2,001.63	1/2	1,612.56	1/2	1,223.49	1/2	834.87	1/2	446.16	1/2	57.78	1/2		1/2				1/2	
3/4	1,993.53	3/4	1,604.46	3/4	1,215.39	3/4	826.79	3/4	438.06	3/4	50.35	3/4		3/4				3/4	
5	1,985.42	5	1,596.35	5	1,207.28	5	818.70	5	429.96	5	42.92	5		5				5	
1/4	1,977.31	1/4	1,588.25	1/4	1,199.18	1/4	810.62	1/4	421.86	1/4	35.49	1/4		1/4				1/4	
1/2	1,969.21	1/2	1,580.14	1/2	1,191.07	1/2	802.54	1/2	413.75	1/2	30.09	1/2		1/2				1/2	
3/4	1,961.10	3/4	1,572.03	3/4	1,182.97	3/4	794.46	3/4	405.65	3/4	24.69	3/4		3/4				3/4	
6	1,953.00	6	1,563.93	6	1,174.86	6	786.38	6	397.54	6	19.28	6		6				6	
1/4	1,944.89	1/4	1,555.82	1/4	1,166.75	1/4	778.30	1/4	389.44	1/4	13.88	1/4		1/4				1/4	
1/2	1,936.79	1/2	1,547.72	1/2	1,158.65	1/2	770.21	1/2	381.33	1/2		1/2		1/2				1/2	
3/4	1,928.68	3/4	1,539.61	3/4	1,150.54	3/4	762.13	3/4	373.23	3/4		3/4		3/4				3/4	
7	1,920.57	7	1,531.51	7	1,142.44	7	754.05	7	365.12	7		7		7				7	
1/4	1,912.47	1/4	1,523.40	1/4	1,134.33	1/4	745.97	1/4	357.02	1/4		1/4		1/4				1/4	
1/2	1,904.36	1/2	1,515.29	1/2	1,126.23	1/2	737.88	1/2	348.91	1/2		1/2		1/2				1/2	
3/4	1,896.26	3/4	1,507.19	3/4	1,118.12	3/4	729.78	3/4	340.80	3/4		3/4		3/4				3/4	
8	1,888.15	8	1,499.08	8	1,110.01	8	721.69	8	332.70	8		8		8				8	
1/4	1,880.05	1/4	1,490.98	1/4	1,101.91	1/4	713.60	1/4	324.59	1/4		1/4		1/4				1/4	
1/2	1,871.94	1/2	1,482.87	1/2	1,093.80	1/2	705.50	1/2	316.49	1/2		1/2		1/2				1/2	
3/4	1,863.84	3/4	1,474.77	3/4	1,085.70	3/4	697.40	3/4	308.38	3/4		3/4		3/4				3/4	
9	1,855.73	9	1,466.66	9	1,077.59	9	689.29	9	300.28	9		9		9				9	
1/4	1,847.62	1/4	1,458.56	1/4	1,069.49	1/4	681.19	1/4	292.17	1/4		1/4		1/4				1/4	
1/2	1,839.52	1/2	1,450.45	1/2	1,061.38	1/2	673.09	1/2	284.06	1/2		1/2		1/2				1/2	
3/4	1,831.41	3/4	1,442.34	3/4	1,053.28	3/4	664.98	3/4	275.96	3/4		3/4		3/4				3/4	
10	1,823.31	10	1,434.24	10	1,045.17	10	656.88	10	267.85	10		10		10				10	
1/4	1,815.20	1/4	1,426.13	1/4	1,037.06	1/4	648.77	1/4	259.75	1/4		1/4		1/4				1/4	
1/2	1,807.10	1/2	1,418.03	1/2	1,028.96	1/2	640.66	1/2	251.64	1/2		1/2		1/2				1/2	
3/4	1,798.99	3/4	1,409.92	3/4	1,020.86	3/4	632.56	3/4	243.54	3/4		3/4		3/4				3/4	
11	1,790.89	11	1,401.82	11	1,012.76	11	624.45	11	235.43	11		11		11				11	
1/4	1,782.78	1/4	1,393.71	1/4	1,004.65	1/4	616.35	1/4	227.33	1/4		1/4		1/4				1/4	
1/2	1,774.67	1/2	1,385.61	1/2	996.56	1/2	608.24	1/2	219.22	1/2		1/2		1/2				1/2	
3/4	1,766.57	3/4	1,377.50	3/4	988.47	3/4	600.14	3/4	211.11	3/4		3/4		3/4				3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/08/2024 JS
CALCULATED: 10/08/2024 CL
PRINTED: 10/09/2024 SW
CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2024

PRECISION MEASUREMENT
& ANALYSIS, INC.

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



BARGE "EMS 531"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS																		GAUGE HEIGHT 15'-06"									
0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.									
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0								
1/4	5,526.17	1/4	5,520.56	1/4	5,177.02	1/4	4,815.96	1/4	4,435.53	1/4	4,047.65	1/4	3,659.17	1/4	3,271.88	1/4	2,883.99	1/4	2,496.08								
1/2	5,514.95	1/2	5,162.33	1/2	4,800.44	1/2	4,419.37	1/2	4,031.49	1/2	3,643.60	1/2	3,255.72	1/2	2,867.83	1/2	2,479.91	1/2	2,092.00								
3/4	5,509.34	3/4	5,154.99	3/4	4,792.68	3/4	4,411.29	3/4	4,023.41	3/4	3,635.52	3/4	3,247.64	3/4	2,859.75	3/4	2,471.83	3/4	2,083.92								
1	5,503.74	1	5,147.65	1	4,784.92	1	4,403.21	1	4,015.33	1	3,627.44	1	3,239.55	1	2,851.67	1	2,463.74	1	2,075.83								
1 1/4	5,496.61	1 1/4	5,140.27	1 1/4	4,777.13	1 1/4	4,395.13	1 1/4	4,007.24	1 1/4	3,619.36	1 1/4	3,231.47	1 1/4	2,843.59	1 1/4	2,455.66	1 1/4	2,067.91								
1 1/2	5,489.49	1 1/2	5,132.90	1 1/2	4,769.34	1 1/2	4,387.05	1 1/2	3,999.16	1 1/2	3,611.28	1 1/2	3,223.39	1 1/2	2,835.50	1 1/2	2,447.58	1 1/2	2,060.00								
3/4	5,482.36	3/4	5,125.52	3/4	4,761.55	3/4	4,378.97	3/4	3,991.08	3/4	3,603.20	3/4	3,215.31	3/4	2,827.42	3/4	2,439.49	3/4	2,052.07								
2	5,475.24	2	5,118.15	2	4,753.77	2	4,370.89	2	3,983.00	2	3,595.12	2	3,207.23	2	2,819.34	2	2,431.41	2	2,044.14								
1 1/4	5,467.31	1 1/4	5,110.74	1 1/4	4,745.94	1 1/4	4,362.80	1 1/4	3,974.92	1 1/4	3,587.04	1 1/4	3,199.15	1 1/4	2,811.26	1 1/4	2,423.32	1 1/4	2,036.21								
1 1/2	5,459.37	1 1/2	5,103.34	1 1/2	4,738.12	1 1/2	4,354.72	1 1/2	3,966.84	1 1/2	3,578.96	1 1/2	3,191.07	1 1/2	2,803.18	1 1/2	2,415.24	1 1/2	2,028.28								
3/4	5,451.44	3/4	5,095.93	3/4	4,730.30	3/4	4,346.64	3/4	3,958.76	3/4	3,570.88	3/4	3,182.99	3/4	2,795.10	3/4	2,407.16	3/4	2,020.35								
3	5,443.51	3	5,088.53	3	4,722.48	3	4,338.56	3	3,950.68	3	3,562.79	3	3,174.91	3	2,787.02	3	2,399.07	3	2,012.42								
1 1/4	5,435.47	1 1/4	5,081.09	1 1/4	4,714.63	1 1/4	4,330.48	1 1/4	3,942.60	1 1/4	3,554.71	1 1/4	3,166.83	1 1/4	2,778.94	1 1/4	2,390.99	1 1/4	2,004.49								
1 1/2	5,427.44	1 1/2	5,073.66	1 1/2	4,706.78	1 1/2	4,322.40	1 1/2	3,934.52	1 1/2	3,546.63	1 1/2	3,158.74	1 1/2	2,770.86	1 1/2	2,382.90	1 1/2	2,000.58								
3/4	5,419.41	3/4	5,066.22	3/4	4,698.93	3/4	4,314.32	3/4	3,926.44	3/4	3,538.55	3/4	3,150.66	3/4	2,762.78	3/4	2,374.82	3/4	1,992.66								
4	5,411.37	4	5,058.79	4	4,691.08	4	4,306.24	4	3,918.35	4	3,530.47	4	3,142.58	4	2,754.69	4	2,366.74	4	1,984.75								
1 1/4	5,403.57	1 1/4	5,051.32	1 1/4	4,683.20	1 1/4	4,298.16	1 1/4	3,910.27	1 1/4	3,522.39	1 1/4	3,134.50	1 1/4	2,746.61	1 1/4	2,358.65	1 1/4	1,976.82								
1 1/2	5,395.76	1 1/2	5,043.85	1 1/2	4,675.32	1 1/2	4,290.08	1 1/2	3,902.19	1 1/2	3,514.31	1 1/2	3,126.42	1 1/2	2,738.53	1 1/2	2,350.57	1 1/2	1,968.90								
3/4	5,387.95	3/4	5,036.39	3/4	4,667.44	3/4	4,282.00	3/4	3,894.11	3/4	3,506.23	3/4	3,118.34	3/4	2,730.45	3/4	2,342.48	3/4	1,961.00								
5	5,380.14	5	5,028.92	5	4,659.56	5	4,273.91	5	3,886.03	5	3,498.15	5	3,110.26	5	2,722.37	5	2,334.40	5	1,953.07								
1 1/4	5,372.78	1 1/4	5,021.42	1 1/4	4,651.64	1 1/4	4,265.83	1 1/4	3,877.95	1 1/4	3,490.07	1 1/4	3,102.18	1 1/4	2,714.29	1 1/4	2,326.32	1 1/4	1,945.14								
1 1/2	5,365.42	1 1/2	5,013.93	1 1/2	4,643.73	1 1/2	4,257.75	1 1/2	3,869.87	1 1/2	3,481.98	1 1/2	3,094.10	1 1/2	2,706.21	1 1/2	2,318.23	1 1/2	1,937.21								
3/4	5,358.05	3/4	5,006.43	3/4	4,635.82	3/4	4,249.67	3/4	3,861.79	3/4	3,473.90	3/4	3,086.02	3/4	2,698.13	3/4	2,310.15	3/4	1,929.28								
6	5,350.69	6	4,998.93	6	4,627.91	6	4,241.59	6	3,853.71	6	3,465.82	6	3,077.93	6	2,690.05	6	2,302.06	6	1,921.35								
1 1/4	5,343.53	1 1/4	4,991.41	1 1/4	4,619.96	1 1/4	4,233.51	1 1/4	3,845.63	1 1/4	3,457.74	1 1/4	3,069.85	1 1/4	2,681.97	1 1/4	2,293.98	1 1/4	1,913.42								
1 1/2	5,336.47	1 1/2	4,983.88	1 1/2	4,612.02	1 1/2	4,225.43	1 1/2	3,837.55	1 1/2	3,449.66	1 1/2	3,061.77	1 1/2	2,673.88	1 1/2	2,285.89	1 1/2	1,905.49								
3/4	5,329.21	3/4	4,976.35	3/4	4,604.08	3/4	4,217.35	3/4	3,829.46	3/4	3,441.58	3/4	3,053.69	3/4	2,665.80	3/4	2,277.81	3/4	1,897.50								
7	5,322.05	7	4,968.82	7	4,596.14	7	4,209.27	7	3,821.38	7	3,433.50	7	3,045.61	7	2,657.72	7	2,269.73	7	1,889.59								
1 1/4	5,314.86	1 1/4	4,961.26	1 1/4	4,588.16	1 1/4	4,201.19	1 1/4	3,813.30	1 1/4	3,425.42	1 1/4	3,037.53	1 1/4	2,649.64	1 1/4	2,261.64	1 1/4	1,881.68								
1 1/2	5,307.67	1 1/2	4,953.71	1 1/2	4,580.19	1 1/2	4,193.11	1 1/2	3,805.22	1 1/2	3,417.34	1 1/2	3,029.45	1 1/2	2,641.56	1 1/2	2,253.56	1 1/2	1,873.77								
3/4	5,300.48	3/4	4,946.15	3/4	4,572.21	3/4	4,185.02	3/4	3,797.14	3/4	3,409.26	3/4	3,021.37	3/4	2,633.48	3/4	2,245.47	3/4	1,865.86								
8	5,293.29	8	4,938.59	8	4,564.24	8	4,176.94	8	3,789.06	8	3,401.17	8	3,013.29	8	2,625.40	8	2,237.39	8	1,857.95								
1 1/4	5,286.07	1 1/4	4,931.00	1 1/4	4,556.24	1 1/4	4,168.86	1 1/4	3,780.98	1 1/4	3,393.09	1 1/4	3,005.21	1 1/4	2,617.32	1 1/4	2,229.31	1 1/4	1,849.04								
1 1/2	5,278.85	1 1/2	4,923.41	1 1/2	4,548.23	1 1/2	4,160.78	1 1/2	3,772.90	1 1/2	3,385.01	1 1/2	2,997.12	1 1/2	2,609.24	1 1/2	2,221.22	1 1/2	1,841.13								
3/4	5,271.63	3/4	4,915.82	3/4	4,540.23	3/4	4,152.70	3/4	3,764.82	3/4	3,376.93	3/4	2,989.04	3/4	2,601.16	3/4	2,213.14	3/4	1,833.22								
9	5,264.41	9	4,908.23	9	4,532.22	9	4,144.62	9	3,756.74	9	3,368.85	9	2,980.96	9	2,593.07	9	2,205.05	9	1,825.31								
1 1/4	5,257.16	1 1/4	4,900.59	1 1/4	4,524.19	1 1/4	4,136.54	1 1/4	3,748.66	1 1/4	3,360.77	1 1/4	2,972.88	1 1/4	2,584.99	1 1/4	2,196.97	1 1/4	1,817.40								
1 1/2	5,249.91	1 1/2	4,892.95	1 1/2	4,516.15	1 1/2	4,128.46	1 1/2	3,740.57	1 1/2	3,352.69	1 1/2	2,964.80	1 1/2	2,576.91	1 1/2	2,188.89	1 1/2	1,809.50								
3/4	5,242.65	3/4	4,885.30	3/4	4,508.12	3/4	4,120.38	3/4	3,732.49	3/4	3,344.61	3/4	2,956.72	3/4	2,568.83	3/4	2,180.80	3/4	1,801.59								
10	5,235.40	10	4,877.66	10	4,500.09	10	4,112.22	10	3,724.41	10	3,336.53	10	2,948.64	10	2,560.75	10	2,172.72	10	1,793.60								
1 1/4	5,228.12	1 1/4	4,869.96	1 1/4	4,492.02	1 1/4	4,104.22	1 1/4	3,716.33	1 1/4	3,328.45	1 1/4	2,940.56	1 1/4	2,552.67	1 1/4	2,164.63	1 1/4	1,785.69								
1 1/2	5,220.84	1 1/2	4,862.27	1 1/2	4,483.96	1 1/2	4,096.13	1 1/2	3,708.25	1 1/2	3,320.56	1 1/2	2,932.48	1 1/2	2,544.58	1 1/2	2,156.55	1 1/2	1,777.70								
3/4	5,213.55	3/4	4,854.57	3/4	4,475.90	3/4	4,088.05	3/4	3,700.17	3/4	3,312.28	3/4	2,924.40	3/4	2,536.50	3/4	2,148.46	3/4	1,769.79								
11	5,206.27	11	4,846.87	11	4,467.84	11	4,079.97	11	3,692.09	11	3,304.20	11	2,916.31	11	2,528.42	11	2,140.38	11	1,761.88								
1 1/4	5,198.96	1 1/4	4,839.14	1 1/4	4,459.76	1 1/4	4,071.89	1 1/4	3,684.01	1 1/4	3,296.12	1 1/4	2,908.23	1 1/4	2,520.33	1 1/4	2,132.30	1 1/4	1,753.97								
1 1/2	5,191.65	1 1/2	4,831.41	1 1/2	4,451.69	1 1/2	4,063.81	1 1/2	3,675.93	1 1/2	3,288.04	1 1/2	2,900.15	1 1/2	2,512.25	1 1/2	2,124.21	1 1/2	1,746.06								
3/4	5,184.33	3/4	4,823.69	3/4	4,443.61	3/4	4,055.73	3/4	3,667.85	3/4	3,279.96	3/4	2,892.07	3/4	2,504.17	3/4	2,116.13	3/4	1,738.15								

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.1.
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP OF 2" DIAMETER "HERMETIC" VALVE.
GAUGE POINT: (HERMETIC) LOCATED 10'-09" OFF CENTERLINE AND 51'-03" FORWARD OF AFT BULKHEAD.



BARGE "EMS 531"

2 STBD
ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-06"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,108.04	0	1,720.01	0	1,331.97	0	958.08	0	582.37	0	194.38	0		0		0		0	
1/4	2,089.96	1/4	1,711.92	1/4	1,324.04	1/4	950.32	1/4	574.29	1/4	186.30	1/4		1/4		1/4		1/4	
1/2	2,091.88	1/2	1,703.84	1/2	1,316.11	1/2	942.57	1/2	566.20	1/2	178.21	1/2		1/2		1/2		1/2	
3/4	2,083.79	3/4	1,695.76	3/4	1,308.18	3/4	934.81	3/4	558.12	3/4	170.13	3/4		3/4		3/4		3/4	
1	2,075.71	1	1,687.67	1	1,300.25	1	927.05	1	550.04	1	162.05	1		1		1		1	
1/4	2,067.62	1/4	1,679.59	1/4	1,292.47	1/4	919.30	1/4	541.95	1/4	153.96	1/4		1/4		1/4		1/4	
1/2	2,059.54	1/2	1,671.50	1/2	1,284.69	1/2	911.54	1/2	533.87	1/2	145.88	1/2		1/2		1/2		1/2	
3/4	2,051.46	3/4	1,663.42	3/4	1,276.91	3/4	903.78	3/4	525.78	3/4	137.79	3/4		3/4		3/4		3/4	
2	2,043.37	2	1,655.33	2	1,269.14	2	896.03	2	517.70	2	129.71	2		2		2		2	
1/4	2,035.29	1/4	1,647.25	1/4	1,261.36	1/4	888.27	1/4	509.62	1/4	121.63	1/4		1/4		1/4		1/4	
1/2	2,027.20	1/2	1,639.17	1/2	1,253.58	1/2	880.51	1/2	501.53	1/2	113.54	1/2		1/2		1/2		1/2	
3/4	2,019.12	3/4	1,631.08	3/4	1,245.80	3/4	872.76	3/4	493.45	3/4	105.46	3/4		3/4		3/4		3/4	
3	2,011.04	3	1,623.00	3	1,238.02	3	865.00	3	485.37	3	97.37	3		3		3		3	
1/4	2,002.95	1/4	1,614.91	1/4	1,230.24	1/4	857.25	1/4	477.29	1/4	89.29	1/4		1/4		1/4		1/4	
1/2	1,994.87	1/2	1,606.83	1/2	1,222.47	1/2	849.49	1/2	469.21	1/2	81.20	1/2		1/2		1/2		1/2	
3/4	1,986.78	3/4	1,598.75	3/4	1,214.69	3/4	841.73	3/4	461.13	3/4	73.12	3/4		3/4		3/4		3/4	
4	1,978.70	4	1,590.66	4	1,206.91	4	833.98	4	453.05	4	65.04	4		4		4		4	
1/4	1,970.61	1/4	1,582.58	1/4	1,199.13	1/4	826.22	1/4	444.97	1/4	57.63	1/4		1/4		1/4		1/4	
1/2	1,962.53	1/2	1,574.49	1/2	1,191.35	1/2	818.47	1/2	436.89	1/2	50.22	1/2		1/2		1/2		1/2	
3/4	1,954.45	3/4	1,566.41	3/4	1,183.57	3/4	810.71	3/4	428.81	3/4	42.81	3/4		3/4		3/4		3/4	
5	1,946.36	5	1,558.33	5	1,175.80	5	802.96	5	420.73	5	35.40	5		5		5		5	
1/4	1,938.28	1/4	1,550.24	1/4	1,168.02	1/4	795.20	1/4	412.65	1/4	30.01	1/4		1/4		1/4		1/4	
1/2	1,930.19	1/2	1,542.16	1/2	1,160.24	1/2	787.45	1/2	404.57	1/2	24.62	1/2		1/2		1/2		1/2	
3/4	1,922.11	3/4	1,534.07	3/4	1,152.46	3/4	779.70	3/4	396.48	3/4	19.23	3/4		3/4		3/4		3/4	
6	1,914.03	6	1,525.99	6	1,144.68	6	771.94	6	388.40	6	13.84	6		6		6		6	
1/4	1,905.94	1/4	1,517.91	1/4	1,136.91	1/4	764.19	1/4	380.32	1/4		1/4		1/4		1/4		1/4	
1/2	1,897.86	1/2	1,509.82	1/2	1,129.13	1/2	756.43	1/2	372.23	1/2		1/2		1/2		1/2		1/2	
3/4	1,889.77	3/4	1,501.74	3/4	1,121.35	3/4	748.68	3/4	364.15	3/4		3/4		3/4		3/4		3/4	
7	1,881.69	7	1,493.65	7	1,113.57	7	740.92	7	356.06	7		7		7		7		7	
1/4	1,873.61	1/4	1,485.57	1/4	1,105.79	1/4	733.16	1/4	347.98	1/4		1/4		1/4		1/4		1/4	
1/2	1,865.52	1/2	1,477.48	1/2	1,098.01	1/2	725.40	1/2	339.90	1/2		1/2		1/2		1/2		1/2	
3/4	1,857.44	3/4	1,469.40	3/4	1,090.24	3/4	717.63	3/4	331.81	3/4		3/4		3/4		3/4		3/4	
8	1,849.35	8	1,461.32	8	1,082.46	8	709.87	8	323.73	8		8		8		8		8	
1/4	1,841.27	1/4	1,453.23	1/4	1,074.68	1/4	702.09	1/4	315.64	1/4		1/4		1/4		1/4		1/4	
1/2	1,833.18	1/2	1,445.15	1/2	1,066.90	1/2	694.32	1/2	307.56	1/2		1/2		1/2		1/2		1/2	
3/4	1,825.10	3/4	1,437.06	3/4	1,059.12	3/4	686.54	3/4	299.48	3/4		3/4		3/4		3/4		3/4	
9	1,817.02	9	1,428.98	9	1,051.35	9	678.77	9	291.39	9		9		9		9		9	
1/4	1,808.93	1/4	1,420.90	1/4	1,043.57	1/4	670.84	1/4	283.31	1/4		1/4		1/4		1/4		1/4	
1/2	1,800.85	1/2	1,412.81	1/2	1,035.79	1/2	662.91	1/2	275.22	1/2		1/2		1/2		1/2		1/2	
3/4	1,792.76	3/4	1,404.73	3/4	1,028.01	3/4	654.98	3/4	267.14	3/4		3/4		3/4		3/4		3/4	
10	1,784.68	10	1,396.64	10	1,020.23	10	647.04	10	259.06	10		10		10		10		10	
1/4	1,776.60	1/4	1,388.56	1/4	1,012.46	1/4	638.96	1/4	250.97	1/4		1/4		1/4		1/4		1/4	
1/2	1,768.51	1/2	1,380.48	1/2	1,004.68	1/2	630.88	1/2	242.89	1/2		1/2		1/2		1/2		1/2	
3/4	1,760.43	3/4	1,372.39	3/4	996.91	3/4	622.79	3/4	234.80	3/4		3/4		3/4		3/4		3/4	
11	1,752.34	11	1,364.31	11	989.13	11	614.71	11	226.72	11		11		11		11		11	
1/4	1,744.26	1/4	1,356.22	1/4	981.37	1/4	606.62	1/4	218.63	1/4		1/4		1/4		1/4		1/4	
1/2	1,736.18	1/2	1,348.14	1/2	973.61	1/2	598.54	1/2	210.55	1/2		1/2		1/2		1/2		1/2	
3/4	1,728.09	3/4	1,340.05	3/4	965.84	3/4	590.46	3/4	202.47	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/08/2024 JS
CALCULATED: 10/08/2024 CL
PRINTED: 10/09/2024 SW
CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2024

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
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<http://www.pmaacorp.net>



BARGE "EMS 531"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
0																			
1/4	4,729.62	1/4	4,500.22	1/4	4,262.86	1/4	4,002.96	1/4	3,735.79	1/4	3,425.66	1/4	3,085.20	1/4	2,704.99	1/4	2,344.17	1/4	2,036.10
1/2	4,726.41	1/2	4,495.33	1/2	4,252.36	1/2	3,991.84	1/2	3,724.66	1/2	3,410.85	1/2	3,050.68	1/2	2,669.96	1/2	2,329.12	1/2	2,021.08
3/4	4,723.20	3/4	4,490.44	3/4	4,247.09	3/4	3,986.27	3/4	3,719.09	3/4	3,403.17	3/4	3,043.17	3/4	2,662.45	3/4	2,321.60	3/4	2,013.57
1	4,719.99	1	4,485.55	1	4,241.83	1	3,980.70	1	3,713.53	1	3,396.05	1	3,036.55	1	2,657.42	1	2,314.07	1	2,006.07
1/4	4,716.78	1/4	4,480.66	1/4	4,236.56	1/4	3,975.14	1/4	3,707.96	1/4	3,388.64	1/4	3,028.14	1/4	2,657.42	1/4	2,306.55	1/4	2,006.07
1/2	4,712.16	1/2	4,475.75	1/2	4,231.27	1/2	3,969.57	1/2	3,702.39	1/2	3,381.72	1/2	3,020.62	1/2	2,652.39	1/2	2,299.02	1/2	2,006.07
3/4	4,707.54	3/4	4,470.83	3/4	4,225.97	3/4	3,964.00	3/4	3,696.83	3/4	3,373.72	3/4	3,013.11	3/4	2,648.87	3/4	2,291.50	3/4	2,006.07
2	4,702.91	2	4,465.91	2	4,220.68	2	3,958.44	2	3,691.26	2	3,366.26	2	3,005.59	2	2,644.87	2	2,283.98	2	2,006.07
1/4	4,698.29	1/4	4,460.99	1/4	4,215.38	1/4	3,952.87	1/4	3,685.69	1/4	3,358.80	1/4	2,998.08	1/4	2,637.36	1/4	2,276.45	1/4	2,006.07
1/2	4,692.92	1/2	4,456.04	1/2	4,210.06	1/2	3,947.31	1/2	3,680.13	1/2	3,351.28	1/2	2,990.56	1/2	2,629.84	1/2	2,268.93	1/2	2,006.07
3/4	4,687.55	3/4	4,451.10	3/4	4,204.74	3/4	3,941.74	3/4	3,674.56	3/4	3,343.77	3/4	2,983.05	3/4	2,622.33	3/4	2,261.40	3/4	2,006.07
3	4,682.17	3	4,446.15	3	4,199.41	3	3,936.17	3	3,669.00	3	3,336.25	3	2,975.53	3	2,614.81	3	2,253.88	3	2,006.07
1/4	4,676.80	1/4	4,441.20	1/4	4,194.09	1/4	3,930.61	1/4	3,663.43	1/4	3,328.74	1/4	2,968.02	1/4	2,607.30	1/4	2,246.35	1/4	2,006.07
1/2	4,671.33	1/2	4,436.22	1/2	4,188.74	1/2	3,925.04	1/2	3,657.86	1/2	3,321.22	1/2	2,960.50	1/2	2,599.78	1/2	2,238.84	1/2	2,006.07
3/4	4,665.86	3/4	4,431.25	3/4	4,183.39	3/4	3,919.47	3/4	3,652.30	3/4	3,313.71	3/4	2,952.99	3/4	2,592.27	3/4	2,231.32	3/4	2,006.07
4	4,660.39	4	4,426.27	4	4,178.04	4	3,913.91	4	3,646.73	4	3,306.19	4	2,945.47	4	2,584.75	4	2,223.80	4	2,006.07
1/4	4,654.93	1/4	4,421.30	1/4	4,172.68	1/4	3,908.34	1/4	3,641.16	1/4	3,298.68	1/4	2,937.96	1/4	2,577.24	1/4	2,216.29	1/4	2,006.07
1/2	4,649.57	1/2	4,416.29	1/2	4,167.30	1/2	3,902.78	1/2	3,635.60	1/2	3,291.16	1/2	2,930.44	1/2	2,569.72	1/2	2,208.78	1/2	2,006.07
3/4	4,644.11	3/4	4,411.29	3/4	4,161.92	3/4	3,897.21	3/4	3,630.03	3/4	3,283.65	3/4	2,922.93	3/4	2,562.21	3/4	2,201.27	3/4	2,006.07
5	4,639.15	5	4,406.28	5	4,156.54	5	3,891.64	5	3,624.47	5	3,276.13	5	2,915.41	5	2,554.69	5	2,193.76	5	2,006.07
1/4	4,633.90	1/4	4,401.28	1/4	4,151.16	1/4	3,886.08	1/4	3,618.90	1/4	3,268.62	1/4	2,907.90	1/4	2,547.18	1/4	2,186.26	1/4	2,006.07
1/2	4,628.06	1/2	4,396.25	1/2	4,145.75	1/2	3,880.51	1/2	3,612.44	1/2	3,261.10	1/2	2,900.38	1/2	2,539.66	1/2	2,178.75	1/2	2,006.07
3/4	4,624.21	3/4	4,391.21	3/4	4,140.35	3/4	3,874.95	3/4	3,606.73	3/4	3,253.59	3/4	2,892.87	3/4	2,532.15	3/4	2,171.24	3/4	2,006.07
6	4,619.37	6	4,386.18	6	4,134.54	6	3,869.38	6	3,600.79	6	3,246.07	6	2,885.35	6	2,524.63	6	2,163.73	6	2,006.07
1/4	4,614.53	1/4	4,381.15	1/4	4,129.53	1/4	3,863.81	1/4	3,594.68	1/4	3,238.56	1/4	2,877.84	1/4	2,517.12	1/4	2,156.22	1/4	2,006.07
1/2	4,609.88	1/2	4,376.09	1/2	4,124.09	1/2	3,858.25	1/2	3,587.65	1/2	3,231.04	1/2	2,870.32	1/2	2,509.60	1/2	2,148.72	1/2	2,006.07
3/4	4,605.22	3/4	4,371.02	3/4	4,118.65	3/4	3,852.68	3/4	3,582.02	3/4	3,223.53	3/4	2,862.81	3/4	2,502.09	3/4	2,141.21	3/4	2,006.07
7	4,600.57	7	4,365.96	7	4,113.22	7	3,847.11	7	3,573.59	7	3,216.01	7	2,855.29	7	2,494.57	7	2,133.70	7	2,006.07
1/4	4,595.92	1/4	4,360.90	1/4	4,107.78	1/4	3,841.55	1/4	3,566.56	1/4	3,208.50	1/4	2,847.78	1/4	2,487.06	1/4	2,126.19	1/4	2,006.07
1/2	4,591.24	1/2	4,355.81	1/2	4,102.31	1/2	3,835.98	1/2	3,559.10	1/2	3,200.98	1/2	2,840.26	1/2	2,479.54	1/2	2,118.69	1/2	2,006.07
3/4	4,586.55	3/4	4,350.72	3/4	4,096.85	3/4	3,830.41	3/4	3,554.03	3/4	3,193.47	3/4	2,832.75	3/4	2,472.03	3/4	2,111.18	3/4	2,006.07
8	4,581.87	8	4,345.63	8	4,091.38	8	3,824.85	8	3,544.19	8	3,185.95	8	2,825.23	8	2,464.51	8	2,103.67	8	2,006.07
1/4	4,577.19	1/4	4,340.54	1/4	4,085.91	1/4	3,819.28	1/4	3,536.73	1/4	3,178.44	1/4	2,817.72	1/4	2,457.00	1/4	2,096.16	1/4	2,006.07
1/2	4,572.45	1/2	4,335.42	1/2	4,080.42	1/2	3,813.72	1/2	3,529.32	1/2	3,170.92	1/2	2,810.20	1/2	2,449.48	1/2	2,088.65	1/2	2,006.07
3/4	4,567.71	3/4	4,330.30	3/4	4,074.92	3/4	3,808.15	3/4	3,524.22	3/4	3,163.41	3/4	2,802.69	3/4	2,441.96	3/4	2,081.15	3/4	2,006.07
9	4,562.96	9	4,325.18	9	4,069.43	9	3,802.58	9	3,514.51	9	3,155.89	9	2,795.17	9	2,434.44	9	2,073.64	9	2,006.07
1/4	4,558.22	1/4	4,320.06	1/4	4,063.93	1/4	3,797.02	1/4	3,507.11	1/4	3,146.38	1/4	2,787.66	1/4	2,426.92	1/4	2,066.13	1/4	2,006.07
1/2	4,553.42	1/2	4,314.90	1/2	4,058.41	1/2	3,791.45	1/2	3,499.71	1/2	3,140.86	1/2	2,780.14	1/2	2,419.40	1/2	2,058.62	1/2	2,006.07
3/4	4,548.61	3/4	4,309.74	3/4	4,052.89	3/4	3,785.89	3/4	3,492.30	3/4	3,133.35	3/4	2,772.63	3/4	2,411.88	3/4	2,051.11	3/4	2,006.07
10	4,543.81	10	4,304.57	10	4,047.36	10	3,780.32	10	3,484.90	10	3,128.83	10	2,765.11	10	2,404.36	10	2,043.61	10	2,006.07
1/4	4,539.00	1/4	4,299.41	1/4	4,041.84	1/4	3,774.75	1/4	3,477.49	1/4	3,118.32	1/4	2,757.60	1/4	2,396.84	1/4	2,036.10	1/4	2,006.07
1/2	4,534.17	1/2	4,294.20	1/2	4,036.29	1/2	3,769.19	1/2	3,470.09	1/2	3,110.80	1/2	2,750.08	1/2	2,389.31	1/2	2,028.59	1/2	2,006.07
3/4	4,529.34	3/4	4,288.99	3/4	4,030.75	3/4	3,763.62	3/4	3,462.69	3/4	3,103.29	3/4	2,742.57	3/4	2,381.79	3/4	2,021.08	3/4	2,006.07
11	4,524.50	11	4,283.78	11	4,025.20	11	3,758.05	11	3,455.28	11	3,095.77	11	2,735.05	11	2,374.27	11	2,013.57	11	2,006.07
1/4	4,519.67	1/4	4,278.57	1/4	4,019.65	1/4	3,752.49	1/4	3,440.47	1/4	3,088.26	1/4	2,727.54	1/4	2,366.74	1/4	2,006.07	1/4	2,006.07
1/2	4,514.81	1/2	4,273.34	1/2	4,014.09	1/2	3,746.92	1/2	3,440.47	1/2	3,080.74	1/2	2,720.02	1/2	2,359.22	1/2	1,998.56	1/2	2,006.07
3/4	4,509.95	3/4	4,268.10	3/4	4,008.53	3/4	3,741.36	3/4	3,433.07	3/4	3,073.23	3/4	2,712.51	3/4	2,351.69	3/4	1,991.05	3/4	2,006.07

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH IAPACS 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 TO TOP LIP OF 2" DIAMETER "HERMETIC" VALVE.
GAUGE POINT: (HERMETIC) LOCATED 10'-09" OFF CENTERLINE AND 45'-03" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

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



BARGE "EMS 531"

3 PORT
ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-06 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	1,983.54	0	1,622.73	0	1,261.72	0	902.47	0	549.63	0	188.48	0		0		0		0	
1/4	1,976.04	1/4	1,615.21	1/4	1,254.19	1/4	895.15	1/4	542.10	1/4	180.96	1/4		1/4		1/4		1/4	
1/2	1,968.53	1/2	1,607.67	1/2	1,246.67	1/2	887.85	1/2	534.58	1/2	173.43	1/2		1/2		1/2		1/2	
3/4	1,961.02	3/4	1,600.17	3/4	1,239.15	3/4	880.54	3/4	527.05	3/4	165.91	3/4		3/4		3/4		3/4	
1	1,953.51	1	1,592.65	1	1,231.63	1	873.23	1	519.53	1	158.38	1		1		1		1	
1/4	1,946.00	1/4	1,585.12	1/4	1,224.11	1/4	865.92	1/4	512.00	1/4	150.86	1/4		1/4		1/4		1/4	
1/2	1,938.50	1/2	1,577.60	1/2	1,216.59	1/2	858.62	1/2	504.48	1/2	143.33	1/2		1/2		1/2		1/2	
3/4	1,930.99	3/4	1,570.08	3/4	1,209.06	3/4	851.31	3/4	496.95	3/4	135.81	3/4		3/4		3/4		3/4	
2	1,923.48	2	1,562.56	2	1,201.54	2	844.00	2	489.43	2	128.28	2		2		2		2	
1/4	1,915.97	1/4	1,555.04	1/4	1,194.02	1/4	836.69	1/4	481.90	1/4	120.76	1/4		1/4		1/4		1/4	
1/2	1,908.46	1/2	1,547.52	1/2	1,186.50	1/2	829.39	1/2	474.38	1/2	113.23	1/2		1/2		1/2		1/2	
3/4	1,900.96	3/4	1,540.00	3/4	1,178.98	3/4	822.08	3/4	466.86	3/4	105.71	3/4		3/4		3/4		3/4	
3	1,893.45	3	1,532.48	3	1,171.46	3	814.77	3	459.33	3	98.18	3		3		3		3	
1/4	1,885.94	1/4	1,524.96	1/4	1,163.93	1/4	807.47	1/4	451.81	1/4	90.66	1/4		1/4		1/4		1/4	
1/2	1,878.43	1/2	1,517.43	1/2	1,156.41	1/2	800.16	1/2	444.29	1/2	83.13	1/2		1/2		1/2		1/2	
3/4	1,870.91	3/4	1,509.91	3/4	1,148.89	3/4	792.85	3/4	436.77	3/4	75.61	3/4		3/4		3/4		3/4	
4	1,863.40	4	1,502.39	4	1,141.37	4	785.54	4	429.25	4	68.08	4		4		4		4	
1/4	1,855.88	1/4	1,494.87	1/4	1,133.85	1/4	778.24	1/4	421.73	1/4	60.56	1/4		1/4		1/4		1/4	
1/2	1,848.36	1/2	1,487.35	1/2	1,126.33	1/2	770.93	1/2	414.21	1/2	53.66	1/2		1/2		1/2		1/2	
3/4	1,840.84	3/4	1,479.83	3/4	1,118.80	3/4	763.63	3/4	406.69	3/4	46.76	3/4		3/4		3/4		3/4	
5	1,833.32	5	1,472.31	5	1,111.28	5	756.32	5	399.17	5	39.87	5		5		5		5	
1/4	1,825.80	1/4	1,464.79	1/4	1,103.76	1/4	749.01	1/4	391.65	1/4	32.97	1/4		1/4		1/4		1/4	
1/2	1,818.28	1/2	1,457.27	1/2	1,096.24	1/2	741.71	1/2	384.13	1/2	27.95	1/2		1/2		1/2		1/2	
3/4	1,810.76	3/4	1,449.74	3/4	1,088.72	3/4	734.41	3/4	376.60	3/4	22.94	3/4		3/4		3/4		3/4	
6	1,803.24	6	1,442.22	6	1,081.20	6	727.10	6	369.08	6	17.92	6		6		6		6	
1/4	1,795.72	1/4	1,434.70	1/4	1,073.68	1/4	719.80	1/4	361.56	1/4	12.91	1/4		1/4		1/4		1/4	
1/2	1,788.19	1/2	1,427.18	1/2	1,066.15	1/2	712.49	1/2	354.03	1/2		1/2		1/2		1/2		1/2	
3/4	1,780.67	3/4	1,419.66	3/4	1,058.63	3/4	705.18	3/4	346.51	3/4		3/4		3/4		3/4		3/4	
7	1,773.15	7	1,412.14	7	1,051.11	7	697.88	7	338.98	7		7		7		7		7	
1/4	1,765.63	1/4	1,404.62	1/4	1,043.59	1/4	690.57	1/4	331.46	1/4		1/4		1/4		1/4		1/4	
1/2	1,758.11	1/2	1,397.10	1/2	1,036.07	1/2	683.26	1/2	323.93	1/2		1/2		1/2		1/2		1/2	
3/4	1,750.59	3/4	1,389.58	3/4	1,028.55	3/4	675.94	3/4	316.41	3/4		3/4		3/4		3/4		3/4	
8	1,743.07	8	1,382.05	8	1,021.02	8	668.63	8	308.88	8		8		8		8		8	
1/4	1,735.55	1/4	1,374.53	1/4	1,013.50	1/4	661.31	1/4	301.36	1/4		1/4		1/4		1/4		1/4	
1/2	1,728.03	1/2	1,367.01	1/2	1,005.98	1/2	653.99	1/2	293.83	1/2		1/2		1/2		1/2		1/2	
3/4	1,720.50	3/4	1,359.49	3/4	998.46	3/4	646.66	3/4	286.31	3/4		3/4		3/4		3/4		3/4	
9	1,712.98	9	1,351.97	9	990.94	9	639.34	9	278.78	9		9		9		9		9	
1/4	1,705.46	1/4	1,344.45	1/4	983.42	1/4	632.01	1/4	271.26	1/4		1/4		1/4		1/4		1/4	
1/2	1,697.94	1/2	1,336.93	1/2	975.99	1/2	624.58	1/2	263.73	1/2		1/2		1/2		1/2		1/2	
3/4	1,690.42	3/4	1,329.41	3/4	968.57	3/4	617.16	3/4	256.21	3/4		3/4		3/4		3/4		3/4	
10	1,682.90	10	1,321.89	10	961.14	10	609.73	10	248.68	10		10		10		10		10	
1/4	1,675.38	1/4	1,314.36	1/4	953.71	1/4	602.30	1/4	241.16	1/4		1/4		1/4		1/4		1/4	
1/2	1,667.86	1/2	1,306.84	1/2	946.39	1/2	594.78	1/2	233.63	1/2		1/2		1/2		1/2		1/2	
3/4	1,660.34	3/4	1,299.32	3/4	939.06	3/4	587.25	3/4	226.11	3/4		3/4		3/4		3/4		3/4	
11	1,652.81	11	1,291.80	11	931.74	11	579.73	11	218.58	11		11		11		11		11	
1/4	1,645.29	1/4	1,284.28	1/4	924.41	1/4	572.20	1/4	211.06	1/4		1/4		1/4		1/4		1/4	
1/2	1,637.77	1/2	1,276.76	1/2	917.10	1/2	564.68	1/2	203.53	1/2		1/2		1/2		1/2		1/2	
3/4	1,630.25	3/4	1,269.24	3/4	909.78	3/4	557.15	3/4	196.01	3/4		3/4		3/4		3/4		3/4	

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CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2024



BARGE "EMS 531"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS												GAUGE HEIGHT 15'-06"																	
0 FT.			1 FT.			2 FT.			3 FT.			4 FT.			5 FT.			6 FT.			7 FT.			8 FT.			9 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	
14	4,727.12	1/4	4,496.32	1/4	4,252.26	1/4	3,990.56	1/4	3,721.90	1/4	3,408.54	1/4	3,047.61	1/4	2,686.01	1/4	2,324.45	1/4	1,962.84	1/4	1,601.28	1/4	1,239.72	1/4	878.06	1/4	516.50	1/4	
12	4,723.89	1/2	4,491.40	1/2	4,246.97	1/2	3,984.97	1/2	3,716.31	1/2	3,401.12	1/2	3,040.08	1/2	2,678.48	1/2	2,316.91	1/2	1,956.91	1/2	1,595.35	1/2	1,232.29	1/2	874.60	1/2	512.06	1/2	
3/4	4,720.66	3/4	4,486.48	3/4	4,241.67	3/4	3,979.37	3/4	3,710.71	3/4	3,393.70	3/4	3,032.55	3/4	2,670.94	3/4	2,309.36	3/4	1,947.78	3/4	1,586.20	3/4	1,224.62	3/4	870.14	3/4	507.52	3/4	
1	4,717.43	1	4,481.56	1	4,236.37	1	3,973.77	1	3,705.11	1	3,388.28	1	3,025.01	1	2,663.41	1	2,301.82	1	1,939.24	1	1,577.66	1	1,216.08	1	865.60	1	502.94	1	
1/4	4,714.19	1/4	4,476.64	1/4	4,231.08	1/4	3,968.18	1/4	3,699.52	1/4	3,378.85	1/4	3,017.48	1/4	2,655.88	1/4	2,294.28	1/4	1,932.70	1/4	1,571.12	1/4	1,208.56	1/4	861.16	1/4	500.00	1/4	
1/2	4,709.55	1/2	4,471.69	1/2	4,225.75	1/2	3,962.58	1/2	3,693.92	1/2	3,371.38	1/2	3,009.95	1/2	2,648.35	1/2	2,286.73	1/2	1,925.15	1/2	1,563.57	1/2	1,200.01	1/2	857.00	1/2	497.50	1/2	
3/4	4,704.90	3/4	4,466.74	3/4	4,220.43	3/4	3,956.98	3/4	3,688.32	3/4	3,365.90	3/4	3,004.41	3/4	2,643.78	3/4	2,282.16	3/4	1,920.58	3/4	1,560.00	3/4	1,197.42	3/4	853.00	3/4	495.00	3/4	
2	4,700.25	2	4,461.79	2	4,215.10	2	3,951.38	2	3,682.72	2	3,360.84	2	2,998.88	2	2,640.64	2	2,279.02	2	1,918.44	2	1,556.86	2	1,194.86	2	848.82	2	492.50	2	
1/4	4,695.60	1/4	4,456.85	1/4	4,209.78	1/4	3,945.79	1/4	3,677.13	1/4	3,348.95	1/4	2,987.35	1/4	2,635.75	1/4	2,274.10	1/4	1,912.50	1/4	1,550.92	1/4	1,191.28	1/4	844.30	1/4	490.00	1/4	
1/2	4,690.20	1/2	4,451.87	1/2	4,204.42	1/2	3,940.19	1/2	3,671.53	1/2	3,341.42	1/2	2,981.81	1/2	2,631.10	1/2	2,270.48	1/2	1,909.88	1/2	1,548.30	1/2	1,188.86	1/2	840.30	1/2	487.50	1/2	
3/4	4,684.79	3/4	4,446.89	3/4	4,199.07	3/4	3,934.59	3/4	3,665.93	3/4	3,336.88	3/4	2,975.28	3/4	2,625.56	3/4	2,264.94	3/4	1,903.36	3/4	1,545.78	3/4	1,186.42	3/4	836.30	3/4	485.00	3/4	
1	4,679.39	1	4,441.91	1	4,193.72	1	3,929.00	1	3,660.34	1	3,332.35	1	2,969.88	1	2,620.16	1	2,260.54	1	1,900.96	1	1,543.38	1	1,184.00	1	832.80	1	482.50	1	
1/4	4,673.98	1/4	4,436.94	1/4	4,188.36	1/4	3,923.40	1/4	3,654.74	1/4	3,326.82	1/4	2,964.75	1/4	2,615.50	1/4	2,255.92	1/4	1,896.34	1/4	1,539.76	1/4	1,181.54	1/4	829.30	1/4	480.00	1/4	
1/2	4,668.48	1/2	4,431.93	1/2	4,182.98	1/2	3,917.80	1/2	3,649.14	1/2	3,319.28	1/2	2,958.68	1/2	2,610.06	1/2	2,250.44	1/2	1,891.86	1/2	1,537.38	1/2	1,179.10	1/2	825.80	1/2	477.50	1/2	
3/4	4,662.99	3/4	4,426.92	3/4	4,177.60	3/4	3,912.21	3/4	3,643.54	3/4	3,303.75	3/4	2,942.15	3/4	2,603.50	3/4	2,242.88	3/4	1,889.30	3/4	1,534.80	3/4	1,176.72	3/4	821.80	3/4	475.00	3/4	
1	4,657.49	1	4,421.92	1	4,172.22	1	3,906.61	1	3,637.95	1	3,296.22	1	2,934.61	1	2,595.06	1	2,234.44	1	1,884.90	1	1,531.42	1	1,174.34	1	817.80	1	472.50	1	
1/4	4,651.99	1/4	4,416.91	1/4	4,166.83	1/4	3,901.01	1/4	3,632.35	1/4	3,288.68	1/4	2,927.08	1/4	2,587.53	1/4	2,227.86	1/4	1,880.42	1/4	1,528.94	1/4	1,171.96	1/4	813.80	1/4	470.00	1/4	
1/2	4,646.70	1/2	4,411.88	1/2	4,161.42	1/2	3,895.41	1/2	3,626.75	1/2	3,281.15	1/2	2,919.55	1/2	2,582.90	1/2	2,223.28	1/2	1,877.84	1/2	1,526.46	1/2	1,169.50	1/2	809.80	1/2	467.50	1/2	
3/4	4,641.41	3/4	4,406.84	3/4	4,156.01	3/4	3,889.82	3/4	3,621.16	3/4	3,273.62	3/4	2,912.01	3/4	2,578.40	3/4	2,218.70	3/4	1,875.40	3/4	1,523.98	3/4	1,167.06	3/4	805.80	3/4	465.00	3/4	
1	4,636.13	1	4,401.81	1	4,150.60	1	3,884.22	1	3,615.56	1	3,266.08	1	2,904.48	1	2,573.90	1	2,214.22	1	1,872.98	1	1,521.50	1	1,164.62	1	801.80	1	462.50	1	
1/4	4,630.94	1/4	4,396.77	1/4	4,145.19	1/4	3,878.62	1/4	3,609.96	1/4	3,258.55	1/4	2,896.95	1/4	2,569.36	1/4	2,210.64	1/4	1,869.06	1/4	1,518.58	1/4	1,162.18	1/4	800.00	1/4	460.00	1/4	
1/2	4,625.97	1/2	4,391.71	1/2	4,139.75	1/2	3,873.03	1/2	3,603.88	1/2	3,251.02	1/2	2,889.41	1/2	2,566.90	1/2	2,208.38	1/2	1,866.88	1/2	1,516.16	1/2	1,159.74	1/2	798.00	1/2	457.50	1/2	
3/4	4,621.09	3/4	4,386.64	3/4	4,134.31	3/4	3,867.43	3/4	3,597.79	3/4	3,243.48	3/4	2,881.88	3/4	2,562.36	3/4	2,206.16	3/4	1,864.46	3/4	1,513.74	3/4	1,157.30	3/4	794.00	3/4	455.00	3/4	
1	4,616.22	1	4,381.58	1	4,128.87	1	3,861.83	1	3,591.74	1	3,238.95	1	2,874.35	1	2,559.84	1	2,203.94	1	1,862.04	1	1,511.30	1	1,154.86	1	790.00	1	452.50	1	
1/4	4,611.35	1/4	4,376.52	1/4	4,123.43	1/4	3,856.23	1/4	3,585.62	1/4	3,228.42	1/4	2,868.81	1/4	2,555.31	1/4	2,200.42	1/4	1,859.58	1/4	1,508.86	1/4	1,152.42	1/4	786.00	1/4	450.00	1/4	
1/2	4,606.66	1/2	4,371.43	1/2	4,117.96	1/2	3,850.64	1/2	3,578.56	1/2	3,220.88	1/2	2,863.28	1/2	2,550.80	1/2	2,198.32	1/2	1,857.18	1/2	1,506.44	1/2	1,150.00	1/2	782.00	1/2	447.50	1/2	
3/4	4,601.98	3/4	4,366.33	3/4	4,112.50	3/4	3,845.04	3/4	3,571.50	3/4	3,213.35	3/4	2,857.75	3/4	2,547.25	3/4	2,194.86	3/4	1,854.78	3/4	1,504.00	3/4	1,147.56	3/4	778.00	3/4	445.00	3/4	
1	4,597.30	1	4,361.24	1	4,107.03	1	3,839.44	1	3,564.43	1	3,205.82	1	2,844.21	1	2,542.72	1	2,192.42	1	1,852.38	1	1,501.58	1	1,145.12	1	774.00	1	442.50	1	
1/4	4,592.62	1/4	4,356.15	1/4	4,101.56	1/4	3,833.85	1/4	3,557.37	1/4	3,198.28	1/4	2,836.68	1/4	2,475.19	1/4	2,113.45	1/4	1,849.95	1/4	1,500.00	1/4	1,142.68	1/4	770.00	1/4	440.00	1/4	
1/2	4,587.90	1/2	4,351.03	1/2	4,096.06	1/2	3,828.25	1/2	3,549.89	1/2	3,190.75	1/2	2,829.15	1/2	2,467.67	1/2	2,105.96	1/2	1,847.56	1/2	1,496.58	1/2	1,140.24	1/2	766.00	1/2	437.50	1/2	
3/4	4,583.19	3/4	4,345.91	3/4	4,090.56	3/4	3,822.65	3/4	3,542.40	3/4	3,183.21	3/4	2,821.61	3/4	2,462.14	3/4	2,103.48	3/4	1,845.14	3/4	1,494.10	3/4	1,137.80	3/4	762.00	3/4	435.00	3/4	
1	4,578.48	1	4,340.79	1	4,085.07	1	3,817.05	1	3,534.91	1	3,175.68	1	2,814.08	1	2,452.61	1	2,099.48	1	1,842.70	1	1,491.66	1	1,135.36	1	758.00	1	432.50	1	
1/4	4,573.77	1/4	4,335.67	1/4	4,079.57	1/4	3,811.46	1/4	3,527.42	1/4	3,168.15	1/4	2,806.54	1/4	2,445.08	1/4	2,093.52	1/4	1,840.26	1/4	1,489.02	1/4	1,132.92	1/4	754.00	1/4	430.00	1/4	
1/2	4,568.00	1/2	4,330.52	1/2	4,074.05	1/2	3,805.86	1/2	3,519.98	1/2	3,160.61	1/2	2,799.01	1/2	2,437.55	1/2	2,091.06	1/2	1,837.74	1/2	1,486.58	1/2	1,130.48	1/2	750.00	1/2	427.50	1/2	
3/4	4,563.22	3/4	4,325.37	3/4	4,068.52	3/4	3,800.26	3/4	3,512.55	3/4	3,153.08	3/4	2,791.48	3/4	2,430.02	3/4	2,088.66	3/4	1,835.30	3/4	1,484.14	3/4	1,128.04	3/4	746.00	3/4	425.00	3/4	
1	4,558.45	1	4,320.22	1	4,062.99	1	3,794.67	1	3,505.12	1	3,145.55	1	2,74																



BARGE "EMS 531"

3 STBD
ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-06"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
1/4	1,964.58	1/4	1,595.15	1/4	1,236.34	1/4	879.94	1/4	536.30	1/4	174.13	1/4		1/4		1/4		1/4	
1/2	1,949.71	1/2	1,590.61	1/2	1,228.80	1/2	872.91	1/2	528.76	1/2	166.59	1/2	159.04	1/2		1/2		1/2	
3/4	1,942.28	3/4	1,583.07	3/4	1,221.26	3/4	865.87	3/4	521.21	3/4	159.04	3/4		3/4		3/4		3/4	
1	1,934.85	1	1,575.53	1	1,213.72	1	858.84	1	513.66	1	151.50	1		1		1		1	
1/4	1,927.41	1/4	1,567.99	1/4	1,206.18	1/4	851.80	1/4	506.12	1/4	143.94	1/4		1/4		1/4		1/4	
1/2	1,919.98	1/2	1,560.46	1/2	1,198.65	1/2	844.77	1/2	498.57	1/2	136.39	1/2		1/2		1/2		1/2	
3/4	1,912.55	3/4	1,552.92	3/4	1,191.11	3/4	837.73	3/4	491.03	3/4	128.84	3/4		3/4		3/4		3/4	
2	1,905.11	2	1,545.38	2	1,183.57	2	830.69	2	483.48	2	121.29	2		2		2		2	
1/4	1,897.68	1/4	1,537.84	1/4	1,176.03	1/4	823.65	1/4	475.93	1/4	113.73	1/4		1/4		1/4		1/4	
1/2	1,890.24	1/2	1,530.31	1/2	1,168.49	1/2	816.62	1/2	468.39	1/2	106.17	1/2		1/2		1/2		1/2	
3/4	1,882.81	3/4	1,522.77	3/4	1,160.95	3/4	809.58	3/4	460.85	3/4	98.61	3/4		3/4		3/4		3/4	
3	1,875.38	3	1,515.23	3	1,153.41	3	802.54	3	453.30	3	91.06	3		3		3		3	
1/4	1,867.94	1/4	1,507.69	1/4	1,145.87	1/4	795.50	1/4	445.76	1/4	83.50	1/4		1/4		1/4		1/4	
1/2	1,860.50	1/2	1,500.16	1/2	1,138.33	1/2	788.47	1/2	438.22	1/2	75.94	1/2		1/2		1/2		1/2	
3/4	1,853.05	3/4	1,492.62	3/4	1,130.79	3/4	781.43	3/4	430.68	3/4	68.38	3/4		3/4		3/4		3/4	
4	1,845.61	4	1,485.08	4	1,123.25	4	774.39	4	423.13	4	60.82	4		4		4		4	
1/4	1,838.17	1/4	1,477.54	1/4	1,115.71	1/4	767.35	1/4	415.59	1/4	53.90	1/4		1/4		1/4		1/4	
1/2	1,830.72	1/2	1,470.01	1/2	1,108.17	1/2	760.32	1/2	408.05	1/2	46.97	1/2		1/2		1/2		1/2	
3/4	1,823.27	3/4	1,462.47	3/4	1,100.64	3/4	753.28	3/4	400.51	3/4	40.04	3/4		3/4		3/4		3/4	
5	1,815.83	5	1,454.93	5	1,093.10	5	746.25	5	392.97	5	33.11	5		5		5		5	
1/4	1,808.38	1/4	1,447.39	1/4	1,085.57	1/4	739.21	1/4	385.42	1/4	28.07	1/4		1/4		1/4		1/4	
1/2	1,800.93	1/2	1,439.86	1/2	1,078.03	1/2	732.18	1/2	377.88	1/2	23.04	1/2		1/2		1/2		1/2	
3/4	1,793.49	3/4	1,432.32	3/4	1,070.50	3/4	725.14	3/4	370.33	3/4	18.00	3/4		3/4		3/4		3/4	
6	1,786.04	6	1,424.78	6	1,062.97	6	718.11	6	362.79	6	12.96	6		6		6		6	
1/4	1,778.59	1/4	1,417.24	1/4	1,055.44	1/4	711.07	1/4	355.24	1/4		1/4		1/4		1/4		1/4	
1/2	1,771.15	1/2	1,409.70	1/2	1,047.90	1/2	704.03	1/2	347.70	1/2		1/2		1/2		1/2		1/2	
3/4	1,763.70	3/4	1,402.17	3/4	1,040.37	3/4	697.00	3/4	340.15	3/4		3/4		3/4		3/4		3/4	
7	1,756.25	7	1,394.63	7	1,032.84	7	689.96	7	332.60	7		7		7		7		7	
1/4	1,748.76	1/4	1,387.09	1/4	1,025.31	1/4	682.91	1/4	325.06	1/4		1/4		1/4		1/4		1/4	
1/2	1,741.27	1/2	1,379.55	1/2	1,017.77	1/2	675.86	1/2	317.51	1/2		1/2		1/2		1/2		1/2	
3/4	1,733.78	3/4	1,372.02	3/4	1,010.24	3/4	668.80	3/4	309.97	3/4		3/4		3/4		3/4		3/4	
8	1,726.28	8	1,364.48	8	1,002.71	8	661.75	8	302.42	8		8		8		8		8	
1/4	1,718.75	1/4	1,356.94	1/4	995.18	1/4	654.68	1/4	294.87	1/4		1/4		1/4		1/4		1/4	
1/2	1,711.21	1/2	1,349.40	1/2	987.65	1/2	647.60	1/2	287.33	1/2		1/2		1/2		1/2		1/2	
3/4	1,703.67	3/4	1,341.87	3/4	980.11	3/4	640.53	3/4	279.78	3/4		3/4		3/4		3/4		3/4	
9	1,696.13	9	1,334.33	9	972.58	9	633.46	9	272.23	9		9		9		9		9	
1/4	1,688.60	1/4	1,326.79	1/4	965.28	1/4	626.15	1/4	264.69	1/4		1/4		1/4		1/4		1/4	
1/2	1,681.06	1/2	1,319.25	1/2	957.98	1/2	618.84	1/2	257.14	1/2		1/2		1/2		1/2		1/2	
3/4	1,673.52	3/4	1,311.72	3/4	950.68	3/4	611.53	3/4	249.60	3/4		3/4		3/4		3/4		3/4	
10	1,665.98	10	1,304.18	10	943.39	10	604.22	10	242.05	10		10		10		10		10	
1/4	1,658.45	1/4	1,296.64	1/4	936.32	1/4	596.67	1/4	234.50	1/4		1/4		1/4		1/4		1/4	
1/2	1,650.91	1/2	1,289.10	1/2	929.26	1/2	589.13	1/2	226.96	1/2		1/2		1/2		1/2		1/2	
3/4	1,643.37	3/4	1,281.57	3/4	922.20	3/4	581.58	3/4	219.41	3/4		3/4		3/4		3/4		3/4	
11	1,635.83	11	1,274.03	11	915.14	11	574.03	11	211.86	11		11		11		11		11	
1/4	1,628.30	1/4	1,266.49	1/4	908.10	1/4	566.49	1/4	204.32	1/4		1/4		1/4		1/4		1/4	
1/2	1,620.76	1/2	1,258.95	1/2	901.06	1/2	558.94	1/2	196.77	1/2		1/2		1/2		1/2		1/2	
3/4	1,613.22	3/4	1,251.41	3/4	894.01	3/4	551.39	3/4	189.23	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/08/2024 JS
CALCULATED: 10/08/2024 CL
PRINTED: 10/09/2024 SW
CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2024

PRECISION MEASUREMENT
& ANALYSIS, INC.

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



BARGE "EMS 531"

INNAGE TRIM TABLE

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

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

$$\begin{array}{rcl} \text{FWD. DRAFT} & = & 2'-00" \\ \text{AFT DRAFT} & = & \underline{4'-00"} \\ \text{DIFF.} & = & 2'-00" \quad (\text{DOWN BY STERN}) \end{array}$$

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

LENGTH BETWEEN DRAFT MARKS: 236'-09"

October 8, 2024

PRECISION MEASUREMENT

& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "EMS 531"

1 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS												GAUGE HEIGHT 15'-06"									
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	10.15	0	259.83	0	541.72	0	845.89	0	1,172.05	0	1,503.30	0	1,834.54	0	2,165.73	0	2,496.85	0	2,827.97		
1/4	13.48	1/4	265.48	1/4	547.82	1/4	852.49	1/4	1,178.95	1/4	1,510.20	1/4	1,841.44	1/4	2,172.63	1/4	2,503.75	1/4	2,834.87		
1/2	16.80	1/2	271.14	1/2	553.93	1/2	859.10	1/2	1,185.85	1/2	1,517.10	1/2	1,848.34	1/2	2,179.53	1/2	2,510.65	1/2	2,841.77		
3/4	20.13	3/4	276.80	3/4	560.04	3/4	865.70	3/4	1,192.75	3/4	1,524.00	3/4	1,855.24	3/4	2,186.43	3/4	2,517.55	3/4	2,848.67		
1	23.46	1	282.46	1	566.15	1	872.31	1	1,199.66	1	1,530.90	1	1,862.14	1	2,193.33	1	2,524.45	1	2,855.56		
1/4	28.11	1/4	288.16	1/4	572.30	1/4	878.96	1/4	1,206.56	1/4	1,537.80	1/4	1,869.04	1/4	2,200.23	1/4	2,531.34	1/4	2,862.46		
1/2	32.76	1/2	293.85	1/2	578.45	1/2	885.60	1/2	1,213.46	1/2	1,544.70	1/2	1,875.94	1/2	2,207.12	1/2	2,538.24	1/2	2,869.36		
3/4	37.41	3/4	299.55	3/4	584.60	3/4	892.25	3/4	1,220.36	3/4	1,551.60	3/4	1,882.84	3/4	2,214.02	3/4	2,545.14	3/4	2,876.26		
1	42.07	2	305.24	2	590.75	2	898.89	2	1,227.26	2	1,558.50	2	1,889.75	2	2,220.92	2	2,552.04	2	2,883.16		
1/4	47.33	1/4	310.98	1/4	596.94	1/4	905.57	1/4	1,234.16	1/4	1,565.40	1/4	1,896.65	1/4	2,227.82	1/4	2,558.94	1/4	2,890.06		
1/2	52.60	1/2	316.71	1/2	603.13	1/2	912.26	1/2	1,241.06	1/2	1,572.30	1/2	1,903.55	1/2	2,234.72	1/2	2,565.84	1/2	2,896.95		
3/4	57.87	3/4	322.45	3/4	609.32	3/4	918.94	3/4	1,247.96	3/4	1,579.21	3/4	1,910.45	3/4	2,241.62	3/4	2,572.73	3/4	2,903.85		
1	63.13	3	328.18	3	615.51	3	925.63	3	1,254.86	3	1,586.11	3	1,917.35	3	2,248.51	3	2,579.63	3	2,910.75		
1/4	68.44	1/4	333.96	1/4	621.74	1/4	932.35	1/4	1,261.76	1/4	1,593.01	1/4	1,924.25	1/4	2,255.41	1/4	2,586.53	1/4	2,917.65		
1/2	73.75	1/2	339.74	1/2	627.97	1/2	939.08	1/2	1,268.66	1/2	1,599.91	1/2	1,931.15	1/2	2,262.31	1/2	2,593.43	1/2	2,924.55		
3/4	79.05	3/4	345.51	3/4	634.19	3/4	945.80	3/4	1,275.57	3/4	1,606.81	3/4	1,938.05	3/4	2,269.21	3/4	2,600.33	3/4	2,931.45		
1	84.36	4	351.29	4	640.42	4	952.52	4	1,282.47	4	1,613.71	4	1,944.95	4	2,276.11	4	2,607.23	4	2,938.34		
1/4	89.70	1/4	357.11	1/4	646.69	1/4	959.29	1/4	1,289.37	1/4	1,620.61	1/4	1,951.85	1/4	2,283.01	1/4	2,614.12	1/4	2,945.24		
1/2	95.05	1/2	362.93	1/2	652.96	1/2	966.05	1/2	1,296.27	1/2	1,627.51	1/2	1,958.75	1/2	2,289.90	1/2	2,621.02	1/2	2,952.14		
3/4	100.39	3/4	368.74	3/4	659.23	3/4	972.81	3/4	1,303.17	3/4	1,634.41	3/4	1,965.66	3/4	2,296.80	3/4	2,627.92	3/4	2,959.04		
1	105.74	5	374.56	5	665.50	5	979.58	5	1,310.07	5	1,641.31	5	1,972.56	5	2,303.70	5	2,634.82	5	2,965.94		
1/4	111.12	1/4	380.42	1/4	671.81	1/4	986.38	1/4	1,316.97	1/4	1,648.21	1/4	1,979.46	1/4	2,310.60	1/4	2,641.72	1/4	2,972.84		
1/2	116.51	1/2	386.28	1/2	678.12	1/2	993.18	1/2	1,323.87	1/2	1,655.11	1/2	1,986.36	1/2	2,317.50	1/2	2,648.61	1/2	2,979.73		
3/4	121.89	3/4	392.14	3/4	684.42	3/4	999.98	3/4	1,330.77	3/4	1,662.02	3/4	1,993.26	3/4	2,324.39	3/4	2,655.51	3/4	2,986.63		
1	127.28	6	397.99	6	690.73	6	1,006.78	6	1,337.67	6	1,668.92	6	2,000.16	6	2,331.29	6	2,662.41	6	2,993.53		
1/4	132.70	1/4	403.89	1/4	697.09	1/4	1,013.63	1/4	1,344.57	1/4	1,675.82	1/4	2,007.06	1/4	2,338.19	1/4	2,669.31	1/4	3,000.43		
1/2	138.13	1/2	409.79	1/2	703.44	1/2	1,020.47	1/2	1,351.48	1/2	1,682.72	1/2	2,013.96	1/2	2,345.09	1/2	2,676.21	1/2	3,007.33		
3/4	143.55	3/4	415.68	3/4	709.80	3/4	1,027.31	3/4	1,358.38	3/4	1,689.62	3/4	2,020.86	3/4	2,351.99	3/4	2,683.11	3/4	3,014.22		
1	148.98	7	421.58	7	716.15	7	1,034.15	7	1,365.28	7	1,696.52	7	2,027.76	7	2,358.89	7	2,690.00	7	3,021.12		
1/4	154.44	1/4	427.52	1/4	722.56	1/4	1,041.03	1/4	1,372.18	1/4	1,703.42	1/4	2,034.66	1/4	2,365.78	1/4	2,696.90	1/4	3,028.02		
1/2	159.90	1/2	433.45	1/2	728.96	1/2	1,047.90	1/2	1,379.08	1/2	1,710.32	1/2	2,041.56	1/2	2,372.68	1/2	2,703.80	1/2	3,034.92		
3/4	165.37	3/4	439.39	3/4	735.37	3/4	1,054.78	3/4	1,385.98	3/4	1,717.22	3/4	2,048.46	3/4	2,379.58	3/4	2,710.70	3/4	3,041.82		
1	170.83	8	445.32	8	741.77	8	1,061.66	8	1,392.88	8	1,724.12	8	2,055.36	8	2,386.48	8	2,717.60	8	3,048.72		
1/4	176.33	1/4	451.30	1/4	748.22	1/4	1,068.55	1/4	1,399.78	1/4	1,731.02	1/4	2,062.26	1/4	2,393.38	1/4	2,724.50	1/4	3,055.61		
1/2	181.84	1/2	457.28	1/2	754.67	1/2	1,075.45	1/2	1,406.68	1/2	1,737.93	1/2	2,069.16	1/2	2,400.28	1/2	2,731.39	1/2	3,062.51		
3/4	187.34	3/4	463.25	3/4	761.12	3/4	1,082.35	3/4	1,413.58	3/4	1,744.83	3/4	2,076.06	3/4	2,407.17	3/4	2,738.29	3/4	3,069.41		
1	192.84	9	469.23	9	767.57	9	1,089.24	9	1,420.48	9	1,751.73	9	2,082.95	9	2,414.07	9	2,745.19	9	3,076.31		
1/4	198.39	1/4	475.24	1/4	774.05	1/4	1,096.14	1/4	1,427.39	1/4	1,758.63	1/4	2,089.85	1/4	2,420.97	1/4	2,752.09	1/4	3,083.21		
1/2	203.93	1/2	481.25	1/2	780.54	1/2	1,103.04	1/2	1,434.29	1/2	1,765.53	1/2	2,096.75	1/2	2,427.87	1/2	2,758.99	1/2	3,090.10		
3/4	209.47	3/4	487.26	3/4	787.03	3/4	1,109.94	3/4	1,441.19	3/4	1,772.43	3/4	2,103.65	3/4	2,434.77	3/4	2,765.89	3/4	3,097.00		
1	215.01	10	493.27	10	793.52	10	1,116.84	10	1,448.09	10	1,779.33	10	2,110.55	10	2,441.67	10	2,772.78	10	3,103.90		
1/4	220.59	1/4	499.31	1/4	800.04	1/4	1,123.75	1/4	1,454.99	1/4	1,786.23	1/4	2,117.45	1/4	2,448.56	1/4	2,779.68	1/4	3,110.80		
1/2	226.18	1/2	505.35	1/2	806.57	1/2	1,130.65	1/2	1,461.89	1/2	1,793.13	1/2	2,124.34	1/2	2,455.46	1/2	2,786.58	1/2	3,117.70		
3/4	231.76	3/4	511.39	3/4	813.10	3/4	1,137.55	3/4	1,468.79	3/4	1,800.03	3/4	2,131.24	3/4	2,462.36	3/4	2,793.48	3/4	3,124.60		
1	237.34	11	517.43	11	819.62	11	1,144.45	11	1,475.69	11	1,806.93	11	2,138.14	11	2,469.26	11	2,800.38	11	3,131.49		
1/4	242.96	1/4	523.50	1/4	826.19	1/4	1,151.35	1/4	1,482.59	1/4	1,813.84	1/4	2,145.04	1/4	2,476.16	1/4	2,807.28	1/4	3,138.39		
1/2	248.58	1/2	529.57	1/2	832.76	1/2	1,158.25	1/2	1,489.49	1/2	1,820.74	1/2	2,151.94	1/2	2,483.06	1/2	2,814.17	1/2	3,145.29		
3/4	254.20	3/4	535.65	3/4	839.32	3/4	1,165.15	3/4	1,496.39	3/4	1,827.64	3/4	2,158.84	3/4	2,489.95	3/4	2,821.07	3/4	3,152.19		

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP LIP OF 2" DIAMETER "HERMETIC" VALVE.
GAUGE POINT: (HERMETIC) LOCATED 10'-09" OFF CENTERLINE AND 44'-06" FORWARD OF AFT BULKHEAD.

P.O. Box 2092
Pasland, Texas 77566
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PRECISION MEASUREMENT

& ANALYSIS, INC.

P.O. Box 2092

Pasland, Texas 77566

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CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

BARGE "EMS 531"

1 PORT
INNAGE TABLE

GAUGE HEIGHT 15'-06"

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	3,159.09	0	3,490.20	0	3,819.98	0	4,136.70	0	4,446.98	0		0		0		0		0	
1/4	3,165.98	1/4	3,497.10	1/4	3,826.73	1/4	4,143.10	1/4	4,443.27	1/4		1/4		1/4		1/4		1/4	
1/2	3,172.88	1/2	3,504.00	1/2	3,833.48	1/2	4,149.50	1/2	4,449.55	1/2		1/2		1/2		1/2		1/2	
3/4	3,179.78	3/4	3,510.89	3/4	3,840.24	3/4	4,155.90	3/4	4,455.84	3/4		3/4		3/4		3/4		3/4	
1	3,186.68	1	3,517.79	1	3,846.99	1	4,162.30	1	4,462.12	1		1		1		1		1	
1/4	3,193.58	1/4	3,524.69	1/4	3,853.72	1/4	4,168.67	1/4	4,468.79	1/4		1/4		1/4		1/4		1/4	
1/2	3,200.48	1/2	3,531.59	1/2	3,860.45	1/2	4,175.05	1/2	4,475.45	1/2		1/2		1/2		1/2		1/2	
3/4	3,207.37	3/4	3,538.49	3/4	3,867.18	3/4	4,181.42	3/4	4,482.12	3/4		3/4		3/4		3/4		3/4	
2	3,214.27	2	3,545.39	2	3,873.90	2	4,187.79	2	4,488.78	2		2		2		2		2	
1/4	3,221.17	1/4	3,552.28	1/4	3,880.60	1/4	4,194.14	1/4	4,495.64	1/4		1/4		1/4		1/4		1/4	
1/2	3,228.07	1/2	3,559.18	1/2	3,887.31	1/2	4,200.49	1/2	4,502.50	1/2		1/2		1/2		1/2		1/2	
3/4	3,234.97	3/4	3,566.08	3/4	3,894.01	3/4	4,206.84	3/4	4,509.36	3/4		3/4		3/4		3/4		3/4	
3	3,241.87	3	3,572.98	3	3,900.71	3	4,213.18	3	4,516.22	3		3		3		3		3	
1/4	3,248.76	1/4	3,579.88	1/4	3,907.39	1/4	4,219.51	1/4	4,522.99	1/4		1/4		1/4		1/4		1/4	
1/2	3,255.66	1/2	3,586.78	1/2	3,914.06	1/2	4,225.83	1/2	4,529.76	1/2		1/2		1/2		1/2		1/2	
3/4	3,262.56	3/4	3,593.67	3/4	3,920.74	3/4	4,232.15	3/4	4,536.53	3/4		3/4		3/4		3/4		3/4	
4	3,269.46	4	3,600.57	4	3,927.41	4	4,238.47	4	4,543.30	4		4		4		4		4	
1/4	3,276.36	1/4	3,607.47	1/4	3,934.06	1/4	4,244.76	1/4	4,549.39	1/4		1/4		1/4		1/4		1/4	
1/2	3,283.25	1/2	3,614.37	1/2	3,940.71	1/2	4,251.06	1/2	4,555.47	1/2		1/2		1/2		1/2		1/2	
3/4	3,290.15	3/4	3,621.27	3/4	3,947.36	3/4	4,257.35	3/4	4,561.55	3/4		3/4		3/4		3/4		3/4	
5	3,297.05	5	3,628.16	5	3,954.01	5	4,263.65	5	4,567.63	5		5		5		5		5	
1/4	3,303.95	1/4	3,635.06	1/4	3,960.63	1/4	4,269.92	1/4	4,572.42	1/4		1/4		1/4		1/4		1/4	
1/2	3,310.85	1/2	3,641.96	1/2	3,967.26	1/2	4,276.19	1/2	4,577.21	1/2		1/2		1/2		1/2		1/2	
3/4	3,317.75	3/4	3,648.86	3/4	3,973.88	3/4	4,282.46	3/4	4,582.00	3/4		3/4		3/4		3/4		3/4	
6	3,324.64	6	3,655.76	6	3,980.50	6	4,288.73	6	4,586.78	6		6		6		6		6	
1/4	3,331.54	1/4	3,662.65	1/4	3,987.10	1/4	4,294.97	1/4	4,592.97	1/4		1/4		1/4		1/4		1/4	
1/2	3,338.44	1/2	3,669.55	1/2	3,993.70	1/2	4,301.21	1/2	4,599.21	1/2		1/2		1/2		1/2		1/2	
3/4	3,345.34	3/4	3,676.44	3/4	4,000.29	3/4	4,307.45	3/4	4,605.45	3/4		3/4		3/4		3/4		3/4	
7	3,352.24	7	3,683.33	7	4,006.89	7	4,313.70	7	4,611.70	7		7		7		7		7	
1/4	3,359.13	1/4	3,690.22	1/4	4,013.46	1/4	4,319.91	1/4	4,617.91	1/4		1/4		1/4		1/4		1/4	
1/2	3,366.03	1/2	3,697.10	1/2	4,020.03	1/2	4,326.13	1/2	4,624.13	1/2		1/2		1/2		1/2		1/2	
3/4	3,372.93	3/4	3,703.98	3/4	4,026.60	3/4	4,332.35	3/4	4,630.35	3/4		3/4		3/4		3/4		3/4	
8	3,379.83	8	3,710.86	8	4,033.17	8	4,338.56	8	4,636.56	8		8		8		8		8	
1/4	3,386.73	1/4	3,717.72	1/4	4,039.70	1/4	4,344.75	1/4	4,642.75	1/4		1/4		1/4		1/4		1/4	
1/2	3,393.63	1/2	3,724.58	1/2	4,046.22	1/2	4,350.94	1/2	4,648.94	1/2		1/2		1/2		1/2		1/2	
3/4	3,400.52	3/4	3,731.44	3/4	4,052.75	3/4	4,357.13	3/4	4,655.13	3/4		3/4		3/4		3/4		3/4	
9	3,407.42	9	3,738.30	9	4,059.27	9	4,363.32	9	4,661.32	9		9		9		9		9	
1/4	3,414.32	1/4	3,745.13	1/4	4,065.75	1/4	4,369.49	1/4	4,667.49	1/4		1/4		1/4		1/4		1/4	
1/2	3,421.22	1/2	3,751.96	1/2	4,072.23	1/2	4,375.65	1/2	4,673.65	1/2		1/2		1/2		1/2		1/2	
3/4	3,428.12	3/4	3,758.80	3/4	4,078.71	3/4	4,381.82	3/4	4,679.82	3/4		3/4		3/4		3/4		3/4	
10	3,435.01	10	3,765.63	10	4,085.18	10	4,387.98	10	4,685.98	10		10		10		10		10	
1/4	3,441.91	1/4	3,772.43	1/4	4,091.64	1/4	4,394.12	1/4	4,692.12	1/4		1/4		1/4		1/4		1/4	
1/2	3,448.81	1/2	3,779.24	1/2	4,098.09	1/2	4,400.26	1/2	4,698.26	1/2		1/2		1/2		1/2		1/2	
3/4	3,455.71	3/4	3,786.05	3/4	4,104.54	3/4	4,406.40	3/4	4,704.40	3/4		3/4		3/4		3/4		3/4	
11	3,462.61	11	3,792.85	11	4,110.99	11	4,412.53	11	4,710.53	11		11		11		11		11	
1/4	3,469.51	1/4	3,799.63	1/4	4,117.42	1/4	4,418.64	1/4	4,716.64	1/4		1/4		1/4		1/4		1/4	
1/2	3,476.40	1/2	3,806.41	1/2	4,123.85	1/2	4,424.76	1/2	4,722.76	1/2		1/2		1/2		1/2		1/2	
3/4	3,483.30	3/4	3,813.19	3/4	4,130.27	3/4	4,430.87	3/4	4,728.87	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/08/2024 JS
CALCULATED: 10/08/2024 CL
PRINTED: 10/09/2024 SW
CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2024

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "EMS 531"

1 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-06"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
0	10.13	0	259.11	0	540.25	0	843.16	0	1,167.93	0	1,498.32	0	1,826.61	0	2,158.06	0	2,489.33	0	2,819.60
1/4	13.44	1/4	264.76	1/4	546.34	1/4	849.72	1/4	1,174.81	1/4	1,505.20	1/4	1,835.60	1/4	2,165.94	1/4	2,496.21	1/4	2,826.48
1/2	16.76	1/2	270.40	1/2	552.43	1/2	856.29	1/2	1,181.69	1/2	1,512.09	1/2	1,842.48	1/2	2,172.82	1/2	2,503.09	1/2	2,833.36
3/4	20.08	3/4	276.04	3/4	558.53	3/4	862.86	3/4	1,188.58	3/4	1,518.97	3/4	1,849.36	3/4	2,179.71	3/4	2,509.97	3/4	2,840.24
1	23.39	1	281.69	1	564.62	1	869.42	1	1,195.46	1	1,525.85	1	1,856.25	1	2,186.59	1	2,516.85	1	2,847.12
1/4	28.03	1/4	287.37	1/4	570.75	1/4	876.03	1/4	1,202.34	1/4	1,532.74	1/4	1,863.13	1/4	2,193.47	1/4	2,523.74	1/4	2,854.00
1/2	32.67	1/2	293.05	1/2	576.88	1/2	882.64	1/2	1,209.23	1/2	1,539.62	1/2	1,870.01	1/2	2,200.35	1/2	2,529.62	1/2	2,860.88
3/4	37.31	3/4	298.73	3/4	583.02	3/4	889.24	3/4	1,216.11	3/4	1,546.50	3/4	1,876.90	3/4	2,207.23	3/4	2,537.50	3/4	2,867.77
2	41.95	2	304.41	2	589.15	2	895.85	2	1,222.99	2	1,553.39	2	1,883.78	2	2,214.11	2	2,544.38	2	2,874.65
1/4	47.20	1/4	310.13	1/4	595.32	1/4	902.50	1/4	1,229.88	1/4	1,560.27	1/4	1,890.66	1/4	2,220.99	1/4	2,551.26	1/4	2,881.53
1/2	52.45	1/2	315.85	1/2	601.50	1/2	909.14	1/2	1,236.76	1/2	1,567.15	1/2	1,897.55	1/2	2,227.87	1/2	2,558.14	1/2	2,888.41
3/4	57.71	3/4	321.57	3/4	607.67	3/4	915.79	3/4	1,243.64	3/4	1,574.04	3/4	1,904.43	3/4	2,234.75	3/4	2,565.02	3/4	2,895.29
3	62.96	3	327.29	3	613.85	3	922.43	3	1,250.53	3	1,580.92	3	1,911.31	3	2,241.63	3	2,571.90	3	2,902.17
1/4	68.25	1/4	333.05	1/4	620.06	1/4	929.12	1/4	1,257.41	1/4	1,587.80	1/4	1,918.20	1/4	2,248.51	1/4	2,578.78	1/4	2,909.05
1/2	73.54	1/2	338.81	1/2	626.27	1/2	935.80	1/2	1,264.29	1/2	1,594.69	1/2	1,925.08	1/2	2,255.39	1/2	2,585.66	1/2	2,915.93
3/4	78.83	3/4	344.57	3/4	632.48	3/4	942.49	3/4	1,271.17	3/4	1,601.57	3/4	1,931.96	3/4	2,262.27	3/4	2,592.54	3/4	2,922.81
4	84.12	4	350.33	4	638.70	4	949.17	4	1,278.06	4	1,608.45	4	1,938.85	4	2,269.15	4	2,599.42	4	2,929.69
1/4	89.46	1/4	356.13	1/4	644.95	1/4	955.90	1/4	1,284.94	1/4	1,615.33	1/4	1,945.73	1/4	2,276.03	1/4	2,606.30	1/4	2,936.57
1/2	94.79	1/2	361.94	1/2	651.20	1/2	962.62	1/2	1,291.82	1/2	1,622.22	1/2	1,952.61	1/2	2,282.91	1/2	2,613.18	1/2	2,943.45
3/4	100.12	3/4	367.74	3/4	657.45	3/4	969.35	3/4	1,298.71	3/4	1,629.10	3/4	1,959.49	3/4	2,289.79	3/4	2,620.06	3/4	2,950.34
5	105.45	5	373.54	5	663.71	5	976.07	5	1,305.59	5	1,635.98	5	1,966.38	5	2,296.68	5	2,626.94	5	2,957.22
1/4	110.82	1/4	379.38	1/4	670.00	1/4	982.83	1/4	1,312.47	1/4	1,642.87	1/4	1,973.26	1/4	2,303.56	1/4	2,633.82	1/4	2,964.10
1/2	116.19	1/2	385.23	1/2	676.29	1/2	989.60	1/2	1,319.36	1/2	1,649.75	1/2	1,980.14	1/2	2,310.44	1/2	2,640.71	1/2	2,970.98
3/4	121.56	3/4	391.07	3/4	682.58	3/4	996.36	3/4	1,326.24	3/4	1,656.63	3/4	1,987.03	3/4	2,317.32	3/4	2,647.59	3/4	2,977.86
6	126.93	6	396.91	6	688.87	6	1,003.13	6	1,333.12	6	1,663.52	6	1,993.91	6	2,324.20	6	2,654.47	6	2,984.74
1/4	132.34	1/4	402.79	1/4	695.20	1/4	1,009.94	1/4	1,340.01	1/4	1,670.40	1/4	2,000.79	1/4	2,331.08	1/4	2,661.35	1/4	2,991.62
1/2	137.75	1/2	408.67	1/2	701.53	1/2	1,016.75	1/2	1,346.89	1/2	1,677.28	1/2	2,007.68	1/2	2,337.96	1/2	2,668.23	1/2	2,998.50
3/4	143.16	3/4	414.55	3/4	707.86	3/4	1,023.57	3/4	1,353.77	3/4	1,684.17	3/4	2,014.56	3/4	2,344.84	3/4	2,675.11	3/4	3,005.38
7	148.57	7	420.43	7	714.18	7	1,030.38	7	1,360.66	7	1,691.05	7	2,021.44	7	2,351.72	7	2,681.99	7	3,012.26
1/4	154.01	1/4	426.35	1/4	720.55	1/4	1,037.24	1/4	1,367.54	1/4	1,697.93	1/4	2,028.33	1/4	2,358.60	1/4	2,688.87	1/4	3,019.14
1/2	159.46	1/2	432.27	1/2	726.92	1/2	1,044.04	1/2	1,374.41	1/2	1,704.82	1/2	2,035.21	1/2	2,365.48	1/2	2,695.75	1/2	3,026.02
3/4	164.91	3/4	438.19	3/4	733.29	3/4	1,050.96	3/4	1,381.31	3/4	1,711.70	3/4	2,042.09	3/4	2,372.36	3/4	2,702.63	3/4	3,032.90
8	170.36	8	444.11	8	739.65	8	1,057.82	8	1,388.19	8	1,718.58	8	2,048.97	8	2,379.24	8	2,709.51	8	3,039.78
1/4	175.85	1/4	450.07	1/4	746.06	1/4	1,064.69	1/4	1,395.07	1/4	1,725.47	1/4	2,055.85	1/4	2,386.12	1/4	2,716.39	1/4	3,046.66
1/2	181.34	1/2	456.03	1/2	752.47	1/2	1,071.57	1/2	1,401.96	1/2	1,732.35	1/2	2,062.74	1/2	2,393.00	1/2	2,723.27	1/2	3,053.54
3/4	186.83	3/4	461.99	3/4	758.88	3/4	1,078.45	3/4	1,408.84	3/4	1,739.23	3/4	2,069.62	3/4	2,399.88	3/4	2,730.15	3/4	3,060.42
9	192.31	9	467.95	9	765.29	9	1,085.33	9	1,415.72	9	1,746.12	9	2,076.50	9	2,406.77	9	2,737.03	9	3,067.31
1/4	197.84	1/4	473.95	1/4	771.74	1/4	1,092.21	1/4	1,422.61	1/4	1,753.00	1/4	2,083.38	1/4	2,413.65	1/4	2,743.91	1/4	3,074.19
1/2	203.37	1/2	479.94	1/2	778.19	1/2	1,099.09	1/2	1,429.49	1/2	1,759.88	1/2	2,090.26	1/2	2,420.53	1/2	2,750.79	1/2	3,081.07
3/4	208.90	3/4	485.94	3/4	784.64	3/4	1,105.98	3/4	1,436.37	3/4	1,766.77	3/4	2,097.14	3/4	2,427.41	3/4	2,757.68	3/4	3,087.95
10	214.42	10	491.94	10	791.09	10	1,112.86	10	1,443.25	10	1,773.65	10	2,104.02	10	2,434.29	10	2,764.56	10	3,094.83
1/4	219.99	1/4	497.96	1/4	797.58	1/4	1,119.74	1/4	1,450.14	1/4	1,780.53	1/4	2,110.90	1/4	2,441.17	1/4	2,771.44	1/4	3,101.71
1/2	225.56	1/2	503.98	1/2	804.07	1/2	1,126.63	1/2	1,457.02	1/2	1,787.41	1/2	2,117.78	1/2	2,448.05	1/2	2,778.32	1/2	3,108.59
3/4	231.12	3/4	510.01	3/4	810.56	3/4	1,133.51	3/4	1,463.90	3/4	1,794.30	3/4	2,124.66	3/4	2,454.93	3/4	2,785.20	3/4	3,115.47
11	236.69	11	516.03	11	817.04	11	1,140.38	11	1,470.79	11	1,801.18	11	2,131.54	11	2,461.81	11	2,792.02	11	3,122.35
1/4	242.30	1/4	522.09	1/4	823.57	1/4	1,147.28	1/4	1,477.67	1/4	1,808.06	1/4	2,138.42	1/4	2,468.69	1/4	2,798.96	1/4	3,129.23
1/2	247.90	1/2	528.14	1/2	830.10	1/2	1,154.16	1/2	1,484.55	1/2	1,814.95	1/2	2,145.30	1/2	2,475.57	1/2	2,805.84	1/2	3,136.11
3/4	253.51	3/4	534.19	3/4	836.63	3/4	1,161.04	3/4	1,491.44	3/4	1,821.83	3/4	2,152.18	3/4	2,482.45	3/4	2,812.72	3/4	3,142.99

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT

& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pma-inc.net>



BARGE "EMS 531"

1 STBD
INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-06"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,149.87	0	3,480.14	0	3,809.07	0	4,124.97	0	4,424.46	0		0		0		0		0	
1/4	3,156.75	1/4	3,487.02	1/4	3,815.80	1/4	4,131.35	1/4	4,430.73	1/4		1/4		1/4		1/4		1/4	
1/2	3,163.63	1/2	3,493.90	1/2	3,822.58	1/2	4,137.74	1/2	4,437.00	1/2		1/2		1/2		1/2		1/2	
3/4	3,170.51	3/4	3,500.78	3/4	3,829.78	3/4	4,144.12	3/4	4,443.27	3/4		3/4		3/4		3/4		3/4	
1	3,177.39	1	3,507.66	1	3,836.01	1	4,150.50	1	4,449.54	1		1		1		1		1	
1/4	3,184.27	1/4	3,514.54	1/4	3,842.72	1/4	4,156.86	1/4	4,456.19	1/4		1/4		1/4		1/4		1/4	
1/2	3,191.15	1/2	3,521.42	1/2	3,849.43	1/2	4,163.22	1/2	4,463.83	1/2		1/2		1/2		1/2		1/2	
3/4	3,198.03	3/4	3,528.30	3/4	3,856.15	3/4	4,169.57	3/4	4,469.48	3/4		3/4		3/4		3/4		3/4	
2	3,204.92	2	3,535.18	2	3,862.86	2	4,175.93	2	4,476.13	2		2		2		2		2	
1/4	3,211.80	1/4	3,542.06	1/4	3,869.54	1/4	4,182.26	1/4	4,482.97	1/4		1/4		1/4		1/4		1/4	
1/2	3,218.68	1/2	3,548.94	1/2	3,876.22	1/2	4,188.59	1/2	4,489.81	1/2		1/2		1/2		1/2		1/2	
3/4	3,225.56	3/4	3,555.82	3/4	3,882.91	3/4	4,194.92	3/4	4,496.65	3/4		3/4		3/4		3/4		3/4	
3	3,232.44	3	3,562.70	3	3,889.59	3	4,201.26	3	4,503.49	3		3		3		3		3	
1/4	3,239.32	1/4	3,569.58	1/4	3,896.25	1/4	4,207.56	1/4	4,510.25	1/4		1/4		1/4		1/4		1/4	
1/2	3,246.20	1/2	3,576.46	1/2	3,902.91	1/2	4,213.86	1/2	4,517.00	1/2		1/2		1/2		1/2		1/2	
3/4	3,253.08	3/4	3,583.34	3/4	3,909.57	3/4	4,220.17	3/4	4,523.76	3/4		3/4		3/4		3/4		3/4	
4	3,259.96	4	3,590.22	4	3,916.23	4	4,226.47	4	4,530.51	4		4		4		4		4	
1/4	3,266.84	1/4	3,597.10	1/4	3,922.86	1/4	4,232.75	1/4	4,536.58	1/4		1/4		1/4		1/4		1/4	
1/2	3,273.72	1/2	3,603.98	1/2	3,929.49	1/2	4,239.03	1/2	4,542.64	1/2		1/2		1/2		1/2		1/2	
3/4	3,280.60	3/4	3,610.86	3/4	3,936.12	3/4	4,245.31	3/4	4,548.71	3/4		3/4		3/4		3/4		3/4	
5	3,287.48	5	3,617.75	5	3,942.76	5	4,251.59	5	4,554.78	5		5		5		5		5	
1/4	3,294.36	1/4	3,624.63	1/4	3,949.36	1/4	4,257.84	1/4	4,559.55	1/4		1/4		1/4		1/4		1/4	
1/2	3,301.24	1/2	3,631.51	1/2	3,955.97	1/2	4,264.09	1/2	4,564.33	1/2		1/2		1/2		1/2		1/2	
3/4	3,308.12	3/4	3,638.39	3/4	3,962.57	3/4	4,270.35	3/4	4,569.10	3/4		3/4		3/4		3/4		3/4	
6	3,315.00	6	3,645.27	6	3,969.18	6	4,276.60	6	4,573.88	6		6		6		6		6	
1/4	3,321.88	1/4	3,652.14	1/4	3,975.76	1/4	4,282.83	1/4	4,579.88	1/4		1/4		1/4		1/4		1/4	
1/2	3,328.76	1/2	3,659.02	1/2	3,982.34	1/2	4,289.05	1/2	4,586.05	1/2		1/2		1/2		1/2		1/2	
3/4	3,335.64	3/4	3,665.90	3/4	3,988.92	3/4	4,295.28	3/4	4,592.28	3/4		3/4		3/4		3/4		3/4	
7	3,342.53	7	3,672.78	7	3,995.50	7	4,301.50	7	4,598.50	7		7		7		7		7	
1/4	3,349.41	1/4	3,679.64	1/4	4,002.05	1/4	4,307.70	1/4	4,604.05	1/4		1/4		1/4		1/4		1/4	
1/2	3,356.29	1/2	3,686.51	1/2	4,008.61	1/2	4,313.90	1/2	4,610.25	1/2		1/2		1/2		1/2		1/2	
3/4	3,363.17	3/4	3,693.37	3/4	4,015.16	3/4	4,320.10	3/4	4,616.45	3/4		3/4		3/4		3/4		3/4	
8	3,370.05	8	3,700.23	8	4,021.71	8	4,326.31	8	4,622.66	8		8		8		8		8	
1/4	3,376.93	1/4	3,707.08	1/4	4,028.22	1/4	4,332.48	1/4	4,628.83	1/4		1/4		1/4		1/4		1/4	
1/2	3,383.81	1/2	3,713.92	1/2	4,034.73	1/2	4,338.65	1/2	4,635.05	1/2		1/2		1/2		1/2		1/2	
3/4	3,390.69	3/4	3,720.76	3/4	4,041.24	3/4	4,344.83	3/4	4,641.24	3/4		3/4		3/4		3/4		3/4	
9	3,397.57	9	3,727.60	9	4,047.74	9	4,351.00	9	4,647.42	9		9		9		9		9	
1/4	3,404.45	1/4	3,734.41	1/4	4,054.21	1/4	4,357.15	1/4	4,653.57	1/4		1/4		1/4		1/4		1/4	
1/2	3,411.33	1/2	3,741.23	1/2	4,060.67	1/2	4,363.30	1/2	4,659.72	1/2		1/2		1/2		1/2		1/2	
3/4	3,418.21	3/4	3,748.04	3/4	4,067.13	3/4	4,369.45	3/4	4,665.87	3/4		3/4		3/4		3/4		3/4	
10	3,425.09	10	3,754.86	10	4,073.59	10	4,375.59	10	4,672.01	10		10		10		10		10	
1/4	3,431.97	1/4	3,761.65	1/4	4,080.03	1/4	4,381.71	1/4	4,678.16	1/4		1/4		1/4		1/4		1/4	
1/2	3,438.85	1/2	3,768.44	1/2	4,086.46	1/2	4,387.84	1/2	4,684.31	1/2		1/2		1/2		1/2		1/2	
3/4	3,445.73	3/4	3,775.23	3/4	4,092.90	3/4	4,393.96	3/4	4,690.46	3/4		3/4		3/4		3/4		3/4	
11	3,452.61	11	3,782.02	11	4,099.33	11	4,400.08	11	4,696.61	11		11		11		11		11	
1/4	3,459.49	1/4	3,788.78	1/4	4,105.74	1/4	4,406.18	1/4	4,702.76	1/4		1/4		1/4		1/4		1/4	
1/2	3,466.37	1/2	3,795.54	1/2	4,112.15	1/2	4,412.27	1/2	4,708.91	1/2		1/2		1/2		1/2		1/2	
3/4	3,473.25	3/4	3,802.30	3/4	4,118.56	3/4	4,418.37	3/4	4,715.06	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/08/2024 JS
CALCULATED: 10/08/2024 CL
PRINTED: 10/09/2024 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2024

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2082
Pearland, Texas 77588
<http://www.pma.com.net>



BARGE "EMS 531"

2 PORT 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.	
0	13.88	0	389.44	0	778.29	0	1,166.75	0	1,555.82	0	1,944.89	0	2,332.96	0	2,722.98	0	3,111.90	0	3,500.82
1/4	19.28	1/4	397.54	1/4	786.38	1/4	1,174.86	1/4	1,563.93	1/4	1,952.99	1/4	2,342.06	1/4	2,731.08	1/4	3,120.00	1/4	3,508.92
1/2	24.68	1/2	405.64	1/2	794.46	1/2	1,182.96	1/2	1,572.03	1/2	1,961.10	1/2	2,350.17	1/2	2,739.18	1/2	3,128.10	1/2	3,517.02
3/4	30.09	3/4	413.75	3/4	802.54	3/4	1,191.07	3/4	1,580.14	3/4	1,969.21	3/4	2,358.27	3/4	2,747.29	3/4	3,136.21	3/4	3,525.13
1	35.49	1	421.85	1	810.62	1	1,199.17	1	1,588.24	1	1,977.31	1	2,366.38	1	2,755.39	1	3,144.31	1	3,533.23
1 1/4	42.92	1 1/4	429.95	1 1/4	818.70	1 1/4	1,207.28	1 1/4	1,596.35	1 1/4	1,985.42	1 1/4	2,374.49	1 1/4	2,763.49	1 1/4	3,152.41	1 1/4	3,541.33
1 1/2	50.35	1 1/2	438.05	1 1/2	826.78	1 1/2	1,215.39	1 1/2	1,604.45	1 1/2	1,993.52	1 1/2	2,382.82	1 1/2	2,771.59	1 1/2	3,160.51	1 1/2	3,550.43
1 3/4	57.78	1 3/4	446.16	1 3/4	834.87	1 3/4	1,223.49	1 3/4	1,612.56	1 3/4	2,001.63	1 3/4	2,390.70	1 3/4	2,779.70	1 3/4	3,168.62	1 3/4	3,557.54
2	65.21	2	454.26	2	842.95	2	1,231.60	2	1,620.67	2	2,009.73	2	2,398.80	2	2,787.80	2	3,176.72	2	3,565.84
1/4	73.32	1/4	462.36	1/4	851.03	1/4	1,239.70	1/4	1,628.77	1/4	2,017.84	1/4	2,406.91	1/4	2,795.90	1/4	3,184.82	1/4	3,573.74
1/2	81.42	1/2	470.46	1/2	859.12	1/2	1,247.81	1/2	1,636.88	1/2	2,025.95	1/2	2,415.01	1/2	2,804.00	1/2	3,192.92	1/2	3,581.84
3/4	89.53	3/4	478.56	3/4	867.20	3/4	1,255.91	3/4	1,644.98	3/4	2,034.05	3/4	2,423.12	3/4	2,812.11	3/4	3,201.03	3/4	3,589.95
3	97.63	3	486.66	3	875.28	3	1,264.02	3	1,653.09	3	2,042.16	3	2,431.23	3	2,820.21	3	3,209.13	3	3,598.05
1/4	105.74	1/4	494.77	1/4	883.37	1/4	1,272.12	1/4	1,661.19	1/4	2,050.26	1/4	2,439.33	1/4	2,828.31	1/4	3,217.23	1/4	3,606.15
1/2	113.84	1/2	502.87	1/2	891.45	1/2	1,280.23	1/2	1,669.30	1/2	2,058.37	1/2	2,447.44	1/2	2,836.41	1/2	3,225.33	1/2	3,614.25
3/4	121.95	3/4	510.97	3/4	899.53	3/4	1,288.34	3/4	1,677.40	3/4	2,066.47	3/4	2,455.54	3/4	2,844.52	3/4	3,233.44	3/4	3,622.36
4	130.06	4	519.08	4	907.62	4	1,296.44	4	1,685.51	4	2,074.58	4	2,463.65	4	2,852.62	4	3,241.54	4	3,630.46
1 1/4	138.16	1 1/4	527.18	1 1/4	915.70	1 1/4	1,304.55	1 1/4	1,693.62	1 1/4	2,082.68	1 1/4	2,471.75	1 1/4	2,860.72	1 1/4	3,249.64	1 1/4	3,638.56
1 1/2	146.27	1 1/2	535.29	1 1/2	923.78	1 1/2	1,312.65	1 1/2	1,701.72	1 1/2	2,090.79	1 1/2	2,479.86	1 1/2	2,868.82	1 1/2	3,257.74	1 1/2	3,646.67
3/4	154.37	3/4	543.39	3/4	931.87	3/4	1,320.76	3/4	1,709.83	3/4	2,098.90	3/4	2,487.96	3/4	2,876.93	3/4	3,265.85	3/4	3,654.77
5	162.48	5	551.50	5	939.95	5	1,328.86	5	1,717.93	5	2,107.00	5	2,496.07	5	2,885.03	5	3,273.95	5	3,662.87
1/4	170.58	1/4	559.61	1/4	948.04	1/4	1,336.96	1/4	1,726.04	1/4	2,115.11	1/4	2,504.18	1/4	2,893.13	1/4	3,282.05	1/4	3,670.97
1/2	178.69	1/2	567.71	1/2	956.12	1/2	1,345.07	1/2	1,734.14	1/2	2,123.21	1/2	2,512.28	1/2	2,901.23	1/2	3,290.15	1/2	3,679.08
3/4	186.80	3/4	575.82	3/4	964.20	3/4	1,353.18	3/4	1,742.25	3/4	2,131.32	3/4	2,520.39	3/4	2,909.34	3/4	3,298.26	3/4	3,687.18
6	194.90	6	583.92	6	972.28	6	1,361.29	6	1,750.35	6	2,139.42	6	2,528.49	6	2,917.44	6	3,306.36	6	3,695.28
1/4	203.01	1/4	592.03	1/4	980.38	1/4	1,369.39	1/4	1,758.46	1/4	2,147.53	1/4	2,536.60	1/4	2,925.54	1/4	3,314.46	1/4	3,703.38
1 1/2	211.11	1 1/2	600.13	1 1/2	988.47	1 1/2	1,377.50	1 1/2	1,766.57	1 1/2	2,155.63	1 1/2	2,544.70	1 1/2	2,933.64	1 1/2	3,322.56	1 1/2	3,711.48
3/4	219.22	3/4	608.24	3/4	996.56	3/4	1,385.60	3/4	1,774.67	3/4	2,163.74	3/4	2,552.81	3/4	2,941.75	3/4	3,330.67	3/4	3,719.59
7	227.32	7	616.35	7	1,004.65	7	1,393.71	7	1,782.78	7	2,171.85	7	2,560.91	7	2,949.85	7	3,338.77	7	3,727.69
1 1/4	235.43	1 1/4	624.45	1 1/4	1,012.75	1 1/4	1,401.81	1 1/4	1,790.88	1 1/4	2,179.95	1 1/4	2,569.02	1 1/4	2,957.95	1 1/4	3,346.87	1 1/4	3,735.79
1 1/2	243.53	1 1/2	632.56	1 1/2	1,020.86	1 1/2	1,409.92	1 1/2	1,798.99	1 1/2	2,188.06	1 1/2	2,577.13	1 1/2	2,966.05	1 1/2	3,354.97	1 1/2	3,743.90
3/4	251.64	3/4	640.66	3/4	1,028.96	3/4	1,418.03	3/4	1,807.09	3/4	2,196.16	3/4	2,585.23	3/4	2,974.16	3/4	3,363.08	3/4	3,752.00
8	259.75	8	648.77	8	1,037.06	8	1,426.13	8	1,815.20	8	2,204.27	8	2,593.34	8	2,982.26	8	3,371.18	8	3,760.10
1/4	267.85	1/4	656.87	1/4	1,045.17	1/4	1,434.24	1/4	1,823.31	1/4	2,212.37	1/4	2,601.44	1/4	2,990.36	1/4	3,379.28	1/4	3,768.20
1/2	275.96	1/2	664.98	1/2	1,053.27	1/2	1,442.34	1/2	1,831.41	1/2	2,220.48	1/2	2,609.54	1/2	2,998.46	1/2	3,387.38	1/2	3,776.30
3/4	284.06	3/4	673.08	3/4	1,061.38	3/4	1,450.45	3/4	1,839.52	3/4	2,228.59	3/4	2,617.65	3/4	2,996.57	3/4	3,395.49	3/4	3,784.41
9	292.17	9	681.19	9	1,069.48	9	1,458.55	9	1,847.62	9	2,236.69	9	2,625.75	9	3,004.67	9	3,403.59	9	3,792.51
1 1/4	300.27	1 1/4	689.29	1 1/4	1,077.59	1 1/4	1,466.66	1 1/4	1,855.73	1 1/4	2,244.80	1 1/4	2,633.85	1 1/4	3,012.77	1 1/4	3,411.69	1 1/4	3,800.61
1 1/2	308.38	1 1/2	697.39	1 1/2	1,085.70	1 1/2	1,474.76	1 1/2	1,863.83	1 1/2	2,252.90	1 1/2	2,641.95	1 1/2	3,020.87	1 1/2	3,419.79	1 1/2	3,808.71
3/4	316.48	3/4	705.50	3/4	1,093.80	3/4	1,482.87	3/4	1,871.94	3/4	2,261.01	3/4	2,650.06	3/4	3,028.98	3/4	3,427.90	3/4	3,816.82
10	324.59	10	713.60	10	1,101.91	10	1,490.98	10	1,880.04	10	2,269.11	10	2,658.16	10	3,037.08	10	3,436.00	10	3,824.92
1/4	332.70	1/4	721.69	1/4	1,110.01	1/4	1,499.08	1/4	1,888.15	1/4	2,277.22	1/4	2,666.26	1/4	3,045.18	1/4	3,444.10	1/4	3,833.02
1 1/2	340.80	1 1/2	729.78	1 1/2	1,118.12	1 1/2	1,507.19	1 1/2	1,896.26	1 1/2	2,285.32	1 1/2	2,674.36	1 1/2	3,053.28	1 1/2	3,452.20	1 1/2	3,841.12
3/4	348.91	3/4	737.87	3/4	1,126.22	3/4	1,515.29	3/4	1,904.36	3/4	2,293.43	3/4	2,682.47	3/4	3,061.39	3/4	3,460.31	3/4	3,849.23
11	357.01	11	745.97	11	1,134.33	11	1,523.40	11	1,912.47	11	2,301.54	11	2,690.57	11	3,069.49	11	3,468.41	11	3,857.33
1 1/4	365.12	1 1/4	754.05	1 1/4	1,142.43	1 1/4	1,531.50	1 1/4	1,920.54	1 1/4	2,309.64	1 1/4	2,698.67	1 1/4	3,077.59	1 1/4	3,476.51	1 1/4	3,865.43
1 1/2	373.22	1 1/2	762.13	1 1/2	1,150.54	1 1/2	1,539.61	1 1/2	1,928.68	1 1/2	2,317.75	1 1/2	2,706.77	1 1/2	3,085.69	1 1/2	3,484.61	1 1/2	3,873.53
3/4	381.33	3/4	770.21	3/4	1,158.65	3/4	1,547.71	3/4	1,936.78	3/4	2,325.85	3/4	2,714.88	3/4	3,103.80	3/4	3,492.72	3/4	3,881.64

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
CAPACITY TABLE ONLY APPLIES TO EXTREME HEIGHT OF TANK.
CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP UP OF 2" DIAMETER "HERMETIC" VALVE.
GAUGE POINT: (HERMETIC) LOCATED 10'-09" OFF CENTERLINE AND 8'-03" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT

& ANALYSIS, INC.

P.O. Box 2092

Portland, Texas 77588

<http://www.pma-inc.com>

Paul J. PMA



BARGE "EMS 531"

2 PORT
INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-06 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,889.74	0	4,278.65	0	4,666.00	0	5,038.00	0	5,390.66	0		0		0		0		0	
1/4	3,897.84	1/4	4,286.76	1/4	4,673.93	1/4	5,045.51	1/4	5,398.04	1/4		1/4		1/4		1/4		1/4	
1/2	3,905.94	1/2	4,294.86	1/2	4,681.86	1/2	5,053.03	1/2	5,405.42	1/2		1/2		1/2		1/2		1/2	
3/4	3,914.05	3/4	4,302.96	3/4	4,689.80	3/4	5,060.55	3/4	5,412.80	3/4		3/4		3/4		3/4		3/4	
1	3,922.15	1	4,311.06	1	4,697.73	1	5,068.06	1	5,420.19	1		1		1		1		1	
1/4	3,930.25	1/4	4,319.17	1/4	4,705.63	1/4	5,075.55	1/4	5,428.01	1/4		1/4		1/4		1/4		1/4	
1/2	3,938.35	1/2	4,327.27	1/2	4,713.53	1/2	5,083.03	1/2	5,435.84	1/2		1/2		1/2		1/2		1/2	
3/4	3,946.46	3/4	4,335.37	3/4	4,721.44	3/4	5,090.52	3/4	5,443.67	3/4		3/4		3/4		3/4		3/4	
2	3,954.56	2	4,343.47	2	4,729.34	2	5,098.01	2	5,451.50	2		2		2		2		2	
1/4	3,962.66	1/4	4,351.58	1/4	4,737.21	1/4	5,105.46	1/4	5,459.55	1/4		1/4		1/4		1/4		1/4	
1/2	3,970.76	1/2	4,359.68	1/2	4,745.08	1/2	5,112.91	1/2	5,467.61	1/2		1/2		1/2		1/2		1/2	
3/4	3,978.86	3/4	4,367.78	3/4	4,752.95	3/4	5,120.37	3/4	5,475.66	3/4		3/4		3/4		3/4		3/4	
3	3,986.97	3	4,375.88	3	4,760.82	3	5,127.82	3	5,483.72	3		3		3		3		3	
1/4	3,995.07	1/4	4,383.98	1/4	4,768.67	1/4	5,135.25	1/4	5,491.67	1/4		1/4		1/4		1/4		1/4	
1/2	4,003.17	1/2	4,392.09	1/2	4,776.51	1/2	5,142.67	1/2	5,499.63	1/2		1/2		1/2		1/2		1/2	
3/4	4,011.27	3/4	4,400.19	3/4	4,784.35	3/4	5,150.10	3/4	5,507.58	3/4		3/4		3/4		3/4		3/4	
4	4,019.38	4	4,408.29	4	4,792.19	4	5,157.52	4	5,515.54	4		4		4		4		4	
1/4	4,027.48	1/4	4,416.39	1/4	4,800.00	1/4	5,164.91	1/4	5,522.68	1/4		1/4		1/4		1/4		1/4	
1/2	4,035.58	1/2	4,424.50	1/2	4,807.81	1/2	5,172.31	1/2	5,529.83	1/2		1/2		1/2		1/2		1/2	
3/4	4,043.68	3/4	4,432.60	3/4	4,815.62	3/4	5,179.70	3/4	5,536.97	3/4		3/4		3/4		3/4		3/4	
5	4,051.79	5	4,440.70	5	4,823.43	5	5,187.09	5	5,544.11	5		5		5		5		5	
1/4	4,059.89	1/4	4,448.80	1/4	4,831.21	1/4	5,194.46	1/4	5,549.74	1/4		1/4		1/4		1/4		1/4	
1/2	4,067.99	1/2	4,456.91	1/2	4,838.99	1/2	5,201.82	1/2	5,555.36	1/2		1/2		1/2		1/2		1/2	
3/4	4,076.09	3/4	4,465.01	3/4	4,846.77	3/4	5,209.18	3/4	5,560.98	3/4		3/4		3/4		3/4		3/4	
6	4,084.20	6	4,473.11	6	4,854.54	6	5,216.54	6	5,566.61	6		6		6		6		6	
1/4	4,092.30	1/4	4,481.21	1/4	4,862.29	1/4	5,223.88	1/4	5,572.88	1/4		1/4		1/4		1/4		1/4	
1/2	4,100.40	1/2	4,489.31	1/2	4,870.04	1/2	5,231.21	1/2	5,579.21	1/2		1/2		1/2		1/2		1/2	
3/4	4,108.50	3/4	4,497.41	3/4	4,877.79	3/4	5,238.54	3/4	5,585.54	3/4		3/4		3/4		3/4		3/4	
7	4,116.61	7	4,505.50	7	4,885.54	7	5,245.87	7	5,591.87	7		7		7		7		7	
1/4	4,124.71	1/4	4,513.59	1/4	4,893.26	1/4	5,253.17	1/4	5,598.20	1/4		1/4		1/4		1/4		1/4	
1/2	4,132.81	1/2	4,521.67	1/2	4,900.97	1/2	5,260.47	1/2	5,604.53	1/2		1/2		1/2		1/2		1/2	
3/4	4,140.91	3/4	4,529.75	3/4	4,908.69	3/4	5,267.77	3/4	5,610.86	3/4		3/4		3/4		3/4		3/4	
8	4,149.02	8	4,537.84	8	4,916.41	8	5,275.07	8	5,617.19	8		8		8		8		8	
1/4	4,157.12	1/4	4,545.89	1/4	4,924.07	1/4	5,282.34	1/4	5,623.52	1/4		1/4		1/4		1/4		1/4	
1/2	4,165.22	1/2	4,553.95	1/2	4,931.73	1/2	5,289.62	1/2	5,630.85	1/2		1/2		1/2		1/2		1/2	
3/4	4,173.32	3/4	4,562.01	3/4	4,939.40	3/4	5,296.89	3/4	5,637.18	3/4		3/4		3/4		3/4		3/4	
9	4,181.42	9	4,570.06	9	4,947.06	9	5,304.16	9	5,643.51	9		9		9		9		9	
1/4	4,189.53	1/4	4,578.09	1/4	4,954.67	1/4	5,311.39	1/4	5,649.84	1/4		1/4		1/4		1/4		1/4	
1/2	4,197.63	1/2	4,586.11	1/2	4,962.28	1/2	5,318.63	1/2	5,656.17	1/2		1/2		1/2		1/2		1/2	
3/4	4,205.73	3/4	4,594.14	3/4	4,969.89	3/4	5,325.87	3/4	5,662.50	3/4		3/4		3/4		3/4		3/4	
10	4,213.83	10	4,602.16	10	4,977.50	10	5,333.11	10	5,668.83	10		10		10		10		10	
1/4	4,221.94	1/4	4,610.16	1/4	4,985.07	1/4	5,340.32	1/4	5,675.16	1/4		1/4		1/4		1/4		1/4	
1/2	4,230.04	1/2	4,618.15	1/2	4,992.65	1/2	5,347.53	1/2	5,681.49	1/2		1/2		1/2		1/2		1/2	
3/4	4,238.14	3/4	4,626.15	3/4	5,000.23	3/4	5,354.74	3/4	5,687.82	3/4		3/4		3/4		3/4		3/4	
11	4,246.24	11	4,634.14	11	5,007.81	11	5,361.95	11	5,694.15	11		11		11		11		11	
1/4	4,254.35	1/4	4,642.11	1/4	5,015.36	1/4	5,369.12	1/4	5,700.48	1/4		1/4		1/4		1/4		1/4	
1/2	4,262.45	1/2	4,650.07	1/2	5,022.90	1/2	5,376.30	1/2	5,706.81	1/2		1/2		1/2		1/2		1/2	
3/4	4,270.55	3/4	4,658.03	3/4	5,030.45	3/4	5,383.48	3/4	5,713.14	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/08/2024 JS
CALCULATED: 10/08/2024 CL
PRINTED: 10/09/2024 SW
CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2024

PRECISION MEASUREMENT
& ANALYSIS, INC.

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<http://www.pma.com.net>



BARGE "EMS 531"

2 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS																		GAUGE HEIGHT 15'-06"									
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	13.84	0	388.40	0	771.94	0	1,144.68	0	1,525.99	0	1,914.03	0	2,302.06	0	2,690.05	0	3,077.94	0	3,465.82								
1/4	19.23	1/4	396.48	1/4	779.70	1/4	1,152.46	1/4	1,534.07	1/4	1,922.11	1/4	2,310.15	1/4	2,698.13	1/4	3,086.02	1/4	3,473.90								
1/2	24.62	1/2	404.57	1/2	787.45	1/2	1,160.24	1/2	1,542.16	1/2	1,930.19	1/2	2,318.23	1/2	2,706.21	1/2	3,094.10	1/2	3,481.99								
3/4	30.01	3/4	412.65	3/4	795.20	3/4	1,168.02	3/4	1,550.24	3/4	1,938.28	3/4	2,326.32	3/4	2,714.29	3/4	3,102.18	3/4	3,490.07								
1	35.40	1	420.73	1	802.96	1	1,175.80	1	1,558.33	1	1,946.36	1	2,334.40	1	2,722.37	1	3,110.26	1	3,498.15								
1 1/4	42.81	1 1/4	428.81	1 1/4	810.71	1 1/4	1,183.58	1 1/4	1,566.41	1 1/4	1,954.45	1 1/4	2,342.48	1 1/4	2,730.45	1 1/4	3,118.34	1 1/4	3,506.23								
1 1/2	50.22	1 1/2	436.89	1 1/2	818.47	1 1/2	1,191.35	1 1/2	1,574.49	1 1/2	1,962.53	1 1/2	2,350.57	1 1/2	2,738.53	1 1/2	3,126.42	1 1/2	3,514.31								
1 3/4	57.63	1 3/4	444.97	1 3/4	826.22	1 3/4	1,199.13	1 3/4	1,582.58	1 3/4	1,970.62	1 3/4	2,358.65	1 3/4	2,746.61	1 3/4	3,134.50	1 3/4	3,522.39								
2	65.04	2	453.05	2	833.98	2	1,206.91	2	1,590.66	2	1,978.70	2	2,366.74	2	2,754.70	2	3,142.58	2	3,530.47								
1/4	73.12	1/4	461.13	1/4	841.73	1/4	1,214.69	1/4	1,598.75	1/4	1,986.78	1/4	2,374.82	1/4	2,762.78	1/4	3,150.66	1/4	3,538.55								
1/2	81.21	1/2	469.21	1/2	849.49	1/2	1,222.47	1/2	1,606.83	1/2	1,994.87	1/2	2,382.90	1/2	2,770.86	1/2	3,158.75	1/2	3,546.63								
3/4	89.29	3/4	477.29	3/4	857.25	3/4	1,230.24	3/4	1,614.91	3/4	2,002.95	3/4	2,390.99	3/4	2,778.94	3/4	3,166.83	3/4	3,554.71								
3	97.37	3	485.37	3	865.00	3	1,238.02	3	1,623.00	3	2,011.04	3	2,399.07	3	2,787.02	3	3,174.91	3	3,562.80								
1/4	105.46	1/4	493.45	1/4	872.76	1/4	1,245.80	1/4	1,631.08	1/4	2,019.12	1/4	2,407.16	1/4	2,795.10	1/4	3,182.99	1/4	3,570.88								
1/2	113.54	1/2	501.53	1/2	880.52	1/2	1,253.58	1/2	1,639.17	1/2	2,027.20	1/2	2,415.24	1/2	2,803.18	1/2	3,191.07	1/2	3,578.96								
3/4	121.63	3/4	509.62	3/4	888.27	3/4	1,261.36	3/4	1,647.25	3/4	2,035.29	3/4	2,423.32	3/4	2,811.26	3/4	3,199.15	3/4	3,587.04								
4	129.71	4	517.70	4	896.03	4	1,269.14	4	1,655.34	4	2,043.37	4	2,431.41	4	2,819.34	4	3,207.23	4	3,595.12								
1/4	137.79	1/4	525.78	1/4	903.78	1/4	1,276.91	1/4	1,663.42	1/4	2,051.46	1/4	2,439.49	1/4	2,827.42	1/4	3,215.31	1/4	3,603.20								
1/2	145.88	1/2	533.87	1/2	911.54	1/2	1,284.69	1/2	1,671.50	1/2	2,059.54	1/2	2,447.58	1/2	2,835.51	1/2	3,223.39	1/2	3,611.28								
3/4	153.96	3/4	541.95	3/4	919.30	3/4	1,292.47	3/4	1,679.59	3/4	2,067.62	3/4	2,455.66	3/4	2,843.59	3/4	3,231.47	3/4	3,619.36								
5	162.05	5	550.04	5	927.05	5	1,300.25	5	1,687.67	5	2,075.71	5	2,463.75	5	2,851.67	5	3,239.56	5	3,627.44								
1/4	170.13	1/4	558.12	1/4	934.81	1/4	1,308.18	1/4	1,695.76	1/4	2,083.79	1/4	2,471.83	1/4	2,859.75	1/4	3,247.64	1/4	3,635.52								
1/2	178.21	1/2	566.20	1/2	942.57	1/2	1,316.11	1/2	1,703.84	1/2	2,091.88	1/2	2,479.91	1/2	2,867.83	1/2	3,255.72	1/2	3,643.60								
3/4	186.30	3/4	574.29	3/4	950.32	3/4	1,324.04	3/4	1,711.92	3/4	2,099.96	3/4	2,488.00	3/4	2,875.91	3/4	3,263.80	3/4	3,651.69								
6	194.38	6	582.37	6	958.08	6	1,331.97	6	1,720.01	6	2,108.05	6	2,496.08	6	2,883.99	6	3,271.88	6	3,659.77								
1/4	202.47	1/4	590.46	1/4	965.84	1/4	1,340.06	1/4	1,728.09	1/4	2,116.13	1/4	2,504.17	1/4	2,892.07	1/4	3,279.96	1/4	3,667.85								
1/2	210.55	1/2	598.54	1/2	973.61	1/2	1,348.14	1/2	1,736.18	1/2	2,124.21	1/2	2,512.25	1/2	2,900.15	1/2	3,288.04	1/2	3,675.93								
3/4	218.64	3/4	606.62	3/4	981.37	3/4	1,356.22	3/4	1,744.26	3/4	2,132.30	3/4	2,520.33	3/4	2,908.23	3/4	3,296.12	3/4	3,684.01								
7	226.72	7	614.71	7	989.13	7	1,364.31	7	1,752.34	7	2,140.38	7	2,528.42	7	2,916.32	7	3,304.20	7	3,692.09								
1/4	234.80	1/4	622.79	1/4	996.91	1/4	1,372.39	1/4	1,760.43	1/4	2,148.47	1/4	2,536.50	1/4	2,924.40	1/4	3,312.28	1/4	3,700.17								
1/2	242.89	1/2	630.88	1/2	1,004.68	1/2	1,380.48	1/2	1,768.51	1/2	2,156.55	1/2	2,544.58	1/2	2,932.48	1/2	3,320.37	1/2	3,708.25								
3/4	250.97	3/4	638.96	3/4	1,012.46	3/4	1,388.56	3/4	1,776.60	3/4	2,164.63	3/4	2,552.67	3/4	2,940.56	3/4	3,328.45	3/4	3,716.33								
8	259.06	8	647.05	8	1,020.23	8	1,396.64	8	1,784.68	8	2,172.72	8	2,560.75	8	2,948.64	8	3,336.53	8	3,724.41								
1/4	267.14	1/4	654.98	1/4	1,028.01	1/4	1,404.73	1/4	1,792.77	1/4	2,180.80	1/4	2,568.83	1/4	2,956.72	1/4	3,344.61	1/4	3,732.49								
1/2	275.22	1/2	662.91	1/2	1,035.79	1/2	1,412.81	1/2	1,800.85	1/2	2,188.89	1/2	2,576.91	1/2	2,964.80	1/2	3,352.69	1/2	3,740.58								
3/4	283.31	3/4	670.84	3/4	1,043.57	3/4	1,420.90	3/4	1,808.93	3/4	2,196.97	3/4	2,584.99	3/4	2,972.88	3/4	3,360.77	3/4	3,748.66								
9	291.39	9	678.77	9	1,051.35	9	1,428.98	9	1,817.02	9	2,205.05	9	2,593.08	9	2,980.96	9	3,368.85	9	3,756.74								
1/4	299.48	1/4	686.54	1/4	1,059.12	1/4	1,437.06	1/4	1,825.10	1/4	2,213.14	1/4	2,601.16	1/4	2,989.04	1/4	3,376.93	1/4	3,764.82								
1/2	307.56	1/2	694.32	1/2	1,066.90	1/2	1,445.15	1/2	1,833.19	1/2	2,221.22	1/2	2,609.24	1/2	2,997.13	1/2	3,385.01	1/2	3,772.90								
3/4	315.64	3/4	702.09	3/4	1,074.68	3/4	1,453.23	3/4	1,841.27	3/4	2,229.31	3/4	2,617.32	3/4	3,005.21	3/4	3,393.09	3/4	3,780.98								
10	323.73	10	709.87	10	1,082.46	10	1,461.32	10	1,849.35	10	2,237.39	10	2,625.40	10	3,013.29	10	3,401.18	10	3,789.06								
1/4	331.81	1/4	717.63	1/4	1,090.24	1/4	1,469.40	1/4	1,857.44	1/4	2,245.47	1/4	2,633.48	1/4	3,021.37	1/4	3,409.26	1/4	3,797.14								
1/2	339.90	1/2	725.40	1/2	1,098.02	1/2	1,477.49	1/2	1,865.52	1/2	2,253.56	1/2	2,641.56	1/2	3,029.45	1/2	3,417.34	1/2	3,805.22								
3/4	347.98	3/4	733.16	3/4	1,105.79	3/4	1,485.57	3/4	1,873.61	3/4	2,261.64	3/4	2,649.64	3/4	3,037.53	3/4	3,425.42	3/4	3,813.30								
11	356.07	11	740.92	11	1,113.57	11	1,493.65	11	1,881.69	11	2,269.73	11	2,657.72	11	3,045.61	11	3,433.50	11	3,821.38								
1/4	364.15	1/4	748.68	1/4	1,121.35	1/4	1,501.74	1/4	1,889.77	1/4	2,277.81	1/4	2,665.80	1/4	3,053.69	1/4	3,441.58	1/4	3,829.47								
1/2	372.23	1/2	756.43	1/2	1,129.13	1/2	1,509.82	1/2	1,897.86	1/2	2,285.90	1/2	2,673.89	1/2	3,061.77	1/2	3,449.66	1/2	3,837.55								
3/4	380.32	3/4	764.19	3/4	1,136.91	3/4	1,517.91	3/4	1,905.94	3/4	2,293.98	3/4	2,681.97	3/4	3,069.85	3/4	3,457.74	3/4	3,845.63								

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP LIP OF 2" DIAMETER "HERMETIC" VALVE.
GAUGE POINT: (HERMETIC) LOCATED 10'-09" OFF CENTERLINE AND 51'-03" FORWARD OF AFT BULKHEAD.

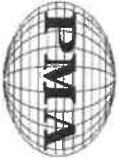
PRECISION MEASUREMENT

& ANALYSIS, INC.

P.O. Box 2092

Portland, Texas 77586

<http://www.pmaconline.net>



BARGE "EMS 531"

2 STBD
INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS																	
IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.
0	3,853.71	0	4,241.59	0	4,627.91	0	4,998.93	0	5,350.69	0							
1/4	3,861.79	1/4	4,249.67	1/4	4,635.82	1/4	5,006.43	1/4	5,358.05	1/4							
1/2	3,869.87	1/2	4,257.75	1/2	4,643.73	1/2	5,013.93	1/2	5,365.42	1/2							
3/4	3,877.95	3/4	4,265.83	3/4	4,651.64	3/4	5,021.42	3/4	5,372.78	3/4							
1	3,886.03	1	4,273.92	1	4,659.56	1	5,028.92	1	5,380.14	1							
1/4	3,894.11	1/4	4,282.00	1/4	4,667.44	1/4	5,036.39	1/4	5,387.95	1/4							
1/2	3,902.19	1/2	4,290.08	1/2	4,675.32	1/2	5,043.85	1/2	5,395.76	1/2							
3/4	3,910.27	3/4	4,298.16	3/4	4,683.20	3/4	5,051.32	3/4	5,403.57	3/4							
2	3,918.36	2	4,306.24	2	4,691.08	2	5,058.79	2	5,411.37	2							
1/4	3,926.44	1/4	4,314.32	1/4	4,698.93	1/4	5,066.22	1/4	5,419.41	1/4							
1/2	3,934.52	1/2	4,322.40	1/2	4,706.78	1/2	5,073.66	1/2	5,427.44	1/2							
3/4	3,942.60	3/4	4,330.48	3/4	4,714.63	3/4	5,081.09	3/4	5,435.47	3/4							
3	3,950.68	3	4,338.56	3	4,722.49	3	5,088.53	3	5,443.51	3							
1/4	3,958.76	1/4	4,346.64	1/4	4,730.31	1/4	5,095.94	1/4	5,451.44	1/4							
1/2	3,966.84	1/2	4,354.72	1/2	4,738.13	1/2	5,103.34	1/2	5,459.37	1/2							
3/4	3,974.92	3/4	4,362.80	3/4	4,745.95	3/4	5,110.74	3/4	5,467.31	3/4							
4	3,983.00	4	4,370.89	4	4,753.77	4	5,118.15	4	5,475.24	4							
1/4	3,991.08	1/4	4,378.97	1/4	4,761.56	1/4	5,125.52	1/4	5,482.36	1/4							
1/2	3,999.16	1/2	4,387.05	1/2	4,769.34	1/2	5,132.90	1/2	5,489.49	1/2							
3/4	4,007.25	3/4	4,395.13	3/4	4,777.13	3/4	5,140.27	3/4	5,496.61	3/4							
5	4,015.33	5	4,403.21	5	4,784.92	5	5,147.65	5	5,503.74	5							
1/4	4,023.41	1/4	4,411.29	1/4	4,792.68	1/4	5,154.99	1/4	5,509.35	1/4							
1/2	4,031.49	1/2	4,419.37	1/2	4,800.44	1/2	5,162.33	1/2	5,514.95	1/2							
3/4	4,039.57	3/4	4,427.45	3/4	4,808.20	3/4	5,169.68	3/4	5,520.56	3/4							
6	4,047.65	6	4,435.53	6	4,815.96	6	5,177.02	6	5,526.17	6							
1/4	4,055.73	1/4	4,443.61	1/4	4,823.69	1/4	5,184.33	1/4	5,532.28	1/4							
1/2	4,063.81	1/2	4,451.69	1/2	4,831.42	1/2	5,191.65	1/2	5,538.39	1/2							
3/4	4,071.89	3/4	4,459.76	3/4	4,839.14	3/4	5,198.96	3/4	5,544.50	3/4							
7	4,079.97	7	4,467.84	7	4,846.87	7	5,206.27	7	5,550.61	7							
1/4	4,088.05	1/4	4,475.90	1/4	4,854.57	1/4	5,213.56	1/4	5,556.72	1/4							
1/2	4,096.14	1/2	4,483.96	1/2	4,862.27	1/2	5,220.84	1/2	5,562.83	1/2							
3/4	4,104.22	3/4	4,492.02	3/4	4,869.96	3/4	5,228.12	3/4	5,568.94	3/4							
8	4,112.30	8	4,500.09	8	4,877.66	8	5,235.40	8	5,575.05	8							
1/4	4,120.38	1/4	4,508.12	1/4	4,885.30	1/4	5,242.65	1/4	5,581.16	1/4							
1/2	4,128.46	1/2	4,516.16	1/2	4,892.95	1/2	5,249.91	1/2	5,587.27	1/2							
3/4	4,136.54	3/4	4,524.19	3/4	4,900.59	3/4	5,257.16	3/4	5,593.38	3/4							
9	4,144.62	9	4,532.23	9	4,908.23	9	5,264.41	9	5,599.49	9							
1/4	4,152.70	1/4	4,540.23	1/4	4,915.82	1/4	5,271.63	1/4	5,605.60	1/4							
1/2	4,160.78	1/2	4,548.23	1/2	4,923.41	1/2	5,278.85	1/2	5,611.71	1/2							
3/4	4,168.86	3/4	4,556.24	3/4	4,931.00	3/4	5,286.07	3/4	5,617.82	3/4							
10	4,176.94	10	4,564.24	10	4,938.59	10	5,293.29	10	5,623.93	10							
1/4	4,185.03	1/4	4,572.22	1/4	4,946.15	1/4	5,300.48	1/4	5,630.04	1/4							
1/2	4,193.11	1/2	4,580.19	1/2	4,953.71	1/2	5,307.67	1/2	5,636.15	1/2							
3/4	4,201.19	3/4	4,588.16	3/4	4,961.27	3/4	5,314.86	3/4	5,642.26	3/4							
11	4,209.27	11	4,596.14	11	4,968.82	11	5,322.05	11	5,648.37	11							
1/4	4,217.35	1/4	4,604.08	1/4	4,976.35	1/4	5,329.21	1/4	5,654.48	1/4							
1/2	4,225.43	1/2	4,612.02	1/2	4,983.88	1/2	5,336.37	1/2	5,660.59	1/2							
3/4	4,233.51	3/4	4,619.96	3/4	4,991.41	3/4	5,343.53	3/4	5,666.70	3/4							

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/08/2024 JS
CALCULATED: 10/08/2024 CL
PRINTED: 10/09/2024 SNV

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2024

PRECISION MEASUREMENT
& ANALYSIS, INC.

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



BARGE "EMS 531"

3 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-06 1/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
0	12.91	0	361.58	0	719.80	0	1,073.68	0	1,434.71	0	1,795.72	0	2,156.33	0	2,517.12	0	2,878.84	0	3,238.56
1/4	17.92	1/4	369.08	1/4	727.10	1/4	1,081.20	1/4	1,442.23	1/4	1,803.24	1/4	2,163.74	1/4	2,524.64	1/4	2,885.36	1/4	3,246.08
1/2	22.94	1/2	376.61	1/2	734.41	1/2	1,088.72	1/2	1,449.75	1/2	1,810.76	1/2	2,171.24	1/2	2,532.15	1/2	2,892.87	1/2	3,253.59
3/4	27.96	3/4	384.13	3/4	741.71	3/4	1,096.24	3/4	1,457.27	3/4	1,818.28	3/4	2,178.75	3/4	2,539.67	3/4	2,900.39	3/4	3,261.11
1	32.97	1	391.65	1	749.02	1	1,103.77	1	1,464.79	1	1,825.80	1	2,186.26	1	2,547.18	1	2,907.90	1	3,268.62
1/4	39.87	1/4	399.17	1/4	756.32	1/4	1,111.29	1/4	1,472.31	1/4	1,833.32	1/4	2,193.77	1/4	2,554.70	1/4	2,915.42	1/4	3,276.14
1/2	46.77	1/2	406.69	1/2	763.63	1/2	1,118.81	1/2	1,480.85	1/2	1,840.85	1/2	2,201.28	1/2	2,562.21	1/2	2,922.93	1/2	3,283.65
3/4	53.67	3/4	414.21	3/4	770.94	3/4	1,126.33	3/4	1,487.35	3/4	1,848.37	3/4	2,208.78	3/4	2,569.73	3/4	2,930.45	3/4	3,291.17
2	60.56	2	421.73	2	778.24	2	1,133.85	2	1,494.88	2	1,855.89	2	2,216.29	2	2,577.24	2	2,937.96	2	3,298.68
1/4	68.09	1/4	429.25	1/4	785.55	1/4	1,141.37	1/4	1,502.40	1/4	1,863.40	1/4	2,223.81	1/4	2,584.76	1/4	2,945.48	1/4	3,306.20
1/2	75.61	1/2	436.77	1/2	792.86	1/2	1,148.90	1/2	1,509.92	1/2	1,870.92	1/2	2,231.32	1/2	2,592.27	1/2	2,952.99	1/2	3,313.71
3/4	83.14	3/4	444.29	3/4	800.16	3/4	1,156.42	3/4	1,517.44	3/4	1,883.43	3/4	2,238.84	3/4	2,599.79	3/4	2,960.51	3/4	3,321.23
3	90.66	3	451.81	3	807.47	3	1,163.94	3	1,524.96	3	1,885.94	3	2,246.36	3	2,607.30	3	2,968.02	3	3,328.74
1/4	98.19	1/4	459.34	1/4	814.78	1/4	1,171.46	1/4	1,532.48	1/4	1,893.45	1/4	2,253.88	1/4	2,614.82	1/4	2,975.54	1/4	3,336.26
1/2	105.71	1/2	466.86	1/2	822.08	1/2	1,178.98	1/2	1,540.00	1/2	1,900.96	1/2	2,261.41	1/2	2,622.33	1/2	2,983.05	1/2	3,343.77
3/4	113.24	3/4	474.39	3/4	829.39	3/4	1,186.50	3/4	1,547.52	3/4	1,908.47	3/4	2,268.93	3/4	2,629.85	3/4	2,990.57	3/4	3,351.29
4	120.76	4	481.91	4	836.70	4	1,194.02	4	1,555.04	4	1,915.98	4	2,276.45	4	2,637.36	4	2,998.08	4	3,358.80
1/4	128.29	1/4	489.43	1/4	844.01	1/4	1,201.55	1/4	1,562.57	1/4	1,923.48	1/4	2,283.98	1/4	2,644.88	1/4	3,005.60	1/4	3,366.26
1/2	135.81	1/2	496.96	1/2	851.31	1/2	1,209.07	1/2	1,570.09	1/2	1,930.99	1/2	2,291.50	1/2	2,652.39	1/2	3,013.11	1/2	3,373.72
3/4	143.34	3/4	504.48	3/4	858.62	3/4	1,216.59	3/4	1,577.61	3/4	1,938.50	3/4	2,299.03	3/4	2,659.91	3/4	3,020.63	3/4	3,381.18
5	150.86	5	512.01	5	865.93	5	1,224.11	5	1,585.13	5	1,946.01	5	2,306.55	5	2,667.42	5	3,028.14	5	3,388.65
1/4	158.39	1/4	519.53	1/4	873.23	1/4	1,231.63	1/4	1,592.65	1/4	1,953.52	1/4	2,314.08	1/4	2,674.94	1/4	3,035.66	1/4	3,396.04
1/2	165.91	1/2	527.06	1/2	880.54	1/2	1,239.15	1/2	1,600.17	1/2	1,961.02	1/2	2,321.60	1/2	2,682.45	1/2	3,043.17	1/2	3,403.45
3/4	173.44	3/4	534.58	3/4	887.85	3/4	1,246.68	3/4	1,607.69	3/4	1,968.53	3/4	2,329.13	3/4	2,689.97	3/4	3,050.69	3/4	3,410.86
6	180.96	6	542.11	6	895.16	6	1,254.20	6	1,615.21	6	1,976.04	6	2,336.65	6	2,697.48	6	3,058.20	6	3,418.26
1/4	188.49	1/4	549.63	1/4	902.47	1/4	1,261.72	1/4	1,622.73	1/4	1,983.55	1/4	2,344.17	1/4	2,705.00	1/4	3,065.72	1/4	3,425.67
1/2	196.01	1/2	557.16	1/2	909.79	1/2	1,269.24	1/2	1,630.26	1/2	1,991.06	1/2	2,351.70	1/2	2,712.51	1/2	3,073.23	1/2	3,433.07
3/4	203.54	3/4	564.68	3/4	917.10	3/4	1,276.76	3/4	1,637.78	3/4	1,998.56	3/4	2,359.22	3/4	2,720.03	3/4	3,080.75	3/4	3,440.48
7	211.06	7	572.21	7	924.42	7	1,284.28	7	1,645.30	7	2,006.07	7	2,366.75	7	2,727.54	7	3,088.26	7	3,447.88
1/4	218.59	1/4	579.73	1/4	931.74	1/4	1,291.81	1/4	1,652.82	1/4	2,013.58	1/4	2,374.27	1/4	2,735.06	1/4	3,095.78	1/4	3,455.29
1/2	226.11	1/2	587.26	1/2	939.07	1/2	1,299.33	1/2	1,660.34	1/2	2,021.09	1/2	2,381.79	1/2	2,742.57	1/2	3,103.29	1/2	3,462.69
3/4	233.64	3/4	594.78	3/4	946.39	3/4	1,306.85	3/4	1,667.86	3/4	2,028.59	3/4	2,389.32	3/4	2,750.09	3/4	3,110.81	3/4	3,470.09
8	241.16	8	602.31	8	953.72	8	1,314.37	8	1,675.38	8	2,036.10	8	2,396.84	8	2,757.60	8	3,118.32	8	3,477.50
1/4	248.69	1/4	609.73	1/4	961.14	1/4	1,321.89	1/4	1,682.90	1/4	2,043.61	1/4	2,404.36	1/4	2,765.12	1/4	3,125.84	1/4	3,484.90
1/2	256.21	1/2	617.16	1/2	968.57	1/2	1,329.41	1/2	1,690.42	1/2	2,051.12	1/2	2,411.88	1/2	2,772.63	1/2	3,133.35	1/2	3,492.31
3/4	263.74	3/4	624.59	3/4	975.99	3/4	1,336.93	3/4	1,697.94	3/4	2,058.63	3/4	2,419.41	3/4	2,780.15	3/4	3,140.87	3/4	3,499.71
9	271.26	9	632.01	9	983.42	9	1,344.45	9	1,705.47	9	2,066.13	9	2,426.93	9	2,787.66	9	3,148.38	9	3,507.11
1/4	278.79	1/4	639.34	1/4	990.94	1/4	1,351.97	1/4	1,712.99	1/4	2,073.64	1/4	2,434.45	1/4	2,795.18	1/4	3,155.90	1/4	3,514.52
1/2	286.31	1/2	646.67	1/2	998.46	1/2	1,359.50	1/2	1,720.51	1/2	2,081.15	1/2	2,441.97	1/2	2,802.69	1/2	3,163.41	1/2	3,521.92
3/4	293.84	3/4	653.99	3/4	1,005.98	3/4	1,367.02	3/4	1,728.03	3/4	2,088.66	3/4	2,449.48	3/4	2,810.21	3/4	3,170.93	3/4	3,529.33
10	301.36	10	661.32	10	1,013.51	10	1,374.54	10	1,735.55	10	2,096.17	10	2,457.00	10	2,817.72	10	3,178.44	10	3,536.73
1/4	308.89	1/4	668.63	1/4	1,021.03	1/4	1,382.06	1/4	1,743.07	1/4	2,103.67	1/4	2,464.52	1/4	2,825.24	1/4	3,185.96	1/4	3,544.19
1/2	316.41	1/2	675.95	1/2	1,028.55	1/2	1,389.58	1/2	1,750.59	1/2	2,111.18	1/2	2,472.03	1/2	2,832.75	1/2	3,193.47	1/2	3,551.65
3/4	323.94	3/4	683.26	3/4	1,036.07	3/4	1,397.10	3/4	1,758.11	3/4	2,118.69	3/4	2,479.55	3/4	2,840.27	3/4	3,200.99	3/4	3,559.11
11	331.46	11	690.58	11	1,043.59	11	1,404.62	11	1,765.63	11	2,126.20	11	2,487.06	11	2,847.78	11	3,208.50	11	3,566.57
1/4	338.98	1/4	697.88	1/4	1,051.11	1/4	1,412.14	1/4	1,773.16	1/4	2,133.71	1/4	2,494.58	1/4	2,855.30	1/4	3,216.02	1/4	3,573.60
1/2	346.51	1/2	705.19	1/2	1,058.64	1/2	1,419.66	1/2	1,780.68	1/2	2,141.21	1/2	2,502.09	1/2	2,862.81	1/2	3,223.53	1/2	3,580.62
3/4	354.03	3/4	712.49	3/4	1,066.16	3/4	1,427.19	3/4	1,788.20	3/4	2,148.72	3/4	2,509.61	3/4	2,870.33	3/4	3,231.05	3/4	3,587.65

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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

GAUGE POINT: (HERMETIC) LOCATED 10'-08" OFF CENTERLINE AND 45'-03" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT

& ANALYSIS, INC.

P.O. Box 2002

Portland, Texas 77588

<http://www.pma-inc.net>



BARGE "EMS 531"

3 PORT
INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-06 1/4"

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	3,594.68	0	3,863.82	0	4,129.53	0	4,381.15	0	4,614.53	0									
1/4	3,600.74	1/4	3,869.38	1/4	4,134.94	1/4	4,386.18	1/4	4,619.37	1/4									
1/2	3,606.79	1/2	3,874.95	1/2	4,140.35	1/2	4,391.22	1/2	4,624.22	1/2									
3/4	3,612.85	3/4	3,880.52	3/4	4,145.76	3/4	4,396.25	3/4	4,629.06	3/4									
1	3,618.90	1	3,886.08	1	4,151.17	1	4,401.28	1	4,633.90	1									
1/4	3,624.47	1/4	3,891.65	1/4	4,156.55	1/4	4,406.29	1/4	4,639.16	1/4									
1/2	3,630.04	1/2	3,897.21	1/2	4,161.93	1/2	4,411.29	1/2	4,644.42	1/2									
3/4	3,635.60	3/4	3,902.78	3/4	4,167.31	3/4	4,416.30	3/4	4,649.67	3/4									
2	3,641.17	2	3,908.35	2	4,172.69	2	4,421.30	2	4,654.93	2									
1/4	3,646.73	1/4	3,913.91	1/4	4,178.04	1/4	4,426.28	1/4	4,660.40	1/4									
1/2	3,652.30	1/2	3,919.48	1/2	4,183.39	1/2	4,431.25	1/2	4,665.87	1/2									
3/4	3,657.87	3/4	3,925.04	3/4	4,188.74	3/4	4,436.23	3/4	4,671.33	3/4									
3	3,663.43	3	3,930.61	3	4,194.09	3	4,441.20	3	4,676.80	3									
1/4	3,669.00	1/4	3,936.18	1/4	4,199.42	1/4	4,446.15	1/4	4,682.18	1/4									
1/2	3,674.57	1/2	3,941.74	1/2	4,204.74	1/2	4,451.10	1/2	4,687.55	1/2									
3/4	3,680.13	3/4	3,947.31	3/4	4,210.06	3/4	4,456.05	3/4	4,692.92	3/4									
4	3,685.70	4	3,952.88	4	4,215.39	4	4,460.99	4	4,698.30	4									
1/4	3,691.26	1/4	3,958.44	1/4	4,220.68	1/4	4,465.91	1/4	4,702.92	1/4									
1/2	3,696.83	1/2	3,964.01	1/2	4,225.98	1/2	4,470.83	1/2	4,707.54	1/2									
3/4	3,702.40	3/4	3,969.57	3/4	4,231.27	3/4	4,475.75	3/4	4,712.16	3/4									
5	3,707.96	5	3,975.14	5	4,236.56	5	4,480.67	5	4,716.78	5									
1/4	3,713.53	1/4	3,980.71	1/4	4,241.83	1/4	4,485.56	1/4	4,719.99	1/4									
1/2	3,719.10	1/2	3,986.27	1/2	4,247.10	1/2	4,490.45	1/2	4,723.20	1/2									
3/4	3,724.66	3/4	3,991.84	3/4	4,252.36	3/4	4,495.34	3/4	4,726.41	3/4									
6	3,730.23	6	3,997.41	6	4,257.63	6	4,500.23	6	4,729.62	6									
1/4	3,735.79	1/4	4,002.97	1/4	4,262.87	1/4	4,505.09	1/4	4,734.86	1/4									
1/2	3,741.36	1/2	4,008.53	1/2	4,268.10	1/2	4,509.95	1/2	4,739.99	1/2									
3/4	3,746.93	3/4	4,014.09	3/4	4,273.34	3/4	4,514.81	3/4	4,745.12	3/4									
7	3,752.49	7	4,019.65	7	4,278.58	7	4,519.67	7	4,750.25	7									
1/4	3,758.06	1/4	4,025.20	1/4	4,283.79	1/4	4,524.51	1/4	4,755.38	1/4									
1/2	3,763.63	1/2	4,030.75	1/2	4,288.99	1/2	4,529.34	1/2	4,760.51	1/2									
3/4	3,769.19	3/4	4,036.30	3/4	4,294.20	3/4	4,534.17	3/4	4,765.64	3/4									
8	3,774.76	8	4,041.85	8	4,299.41	8	4,539.01	8	4,770.77	8									
1/4	3,780.32	1/4	4,047.37	1/4	4,304.58	1/4	4,543.81	1/4	4,775.90	1/4									
1/2	3,785.89	1/2	4,052.89	1/2	4,309.74	1/2	4,548.61	1/2	4,781.03	1/2									
3/4	3,791.46	3/4	4,058.42	3/4	4,314.90	3/4	4,553.42	3/4	4,786.16	3/4									
9	3,797.02	9	4,063.94	9	4,320.07	9	4,558.22	9	4,791.29	9									
1/4	3,802.59	1/4	4,069.43	1/4	4,325.19	1/4	4,562.97	1/4	4,796.42	1/4									
1/2	3,808.15	1/2	4,074.93	1/2	4,330.31	1/2	4,567.71	1/2	4,801.55	1/2									
3/4	3,813.72	3/4	4,080.42	3/4	4,335.42	3/4	4,572.45	3/4	4,806.68	3/4									
10	3,819.29	10	4,085.92	10	4,340.54	10	4,577.19	10	4,811.81	10									
1/4	3,824.85	1/4	4,091.38	1/4	4,345.63	1/4	4,581.88	1/4	4,816.94	1/4									
1/2	3,830.42	1/2	4,096.85	1/2	4,350.72	1/2	4,586.56	1/2	4,822.07	1/2									
3/4	3,835.99	3/4	4,102.32	3/4	4,355.81	3/4	4,591.24	3/4	4,827.20	3/4									
11	3,841.55	11	4,107.78	11	4,360.90	11	4,595.92	11	4,832.33	11									
1/4	3,847.12	1/4	4,113.22	1/4	4,365.97	1/4	4,600.57	1/4	4,837.46	1/4									
1/2	3,852.68	1/2	4,118.66	1/2	4,371.03	1/2	4,605.23	1/2	4,842.59	1/2									
3/4	3,858.25	3/4	4,124.09	3/4	4,376.09	3/4	4,609.88	3/4	4,847.72	3/4									

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/08/2024 JS
CALCULATED: 10/08/2024 CL
PRINTED: 10/09/2024 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2024

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2082
Pearland, Texas 77588
<http://www.dtmccord.net>



BARGE "EMS 531"

3 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS												GAUGE HEIGHT 15'-06"																	
0 FT.			1 FT.			2 FT.			3 FT.			4 FT.			5 FT.			6 FT.			7 FT.			8 FT.			9 FT.		
IN	D	IN	IN	D	IN	IN	D	IN	IN	D	IN	IN	D	IN	IN	D	IN	IN	D	IN	IN	D	IN	IN	D	IN	IN		
1/4	18.00	1/4	370.34	1/4	725.14	1/4	1,070.51	1/4	1,432.32	1/4	1,793.49	1/4	2,151.09	1/4	2,512.84	1/4	2,874.35	1/4	3,235.95	1/4	3,597.55	1/4	3,959.15	1/4	4,320.75	1/4	4,682.35	1/4	5,043.95
1/2	23.04	1/2	377.88	1/2	732.18	1/2	1,078.04	1/2	1,432.84	1/2	1,800.94	1/2	2,158.52	1/2	2,520.37	1/2	2,881.88	1/2	3,243.49	1/2	3,605.09	1/2	3,966.69	1/2	4,328.29	1/2	4,689.89	1/2	5,051.49
3/4	28.08	3/4	385.43	3/4	739.21	3/4	1,085.57	3/4	1,440.37	3/4	1,808.38	3/4	2,166.96	3/4	2,527.89	3/4	2,889.42	3/4	3,250.73	3/4	3,612.15	3/4	3,973.57	3/4	4,334.99	3/4	4,696.41	3/4	5,057.83
1	33.12	1	392.97	1	746.25	1	1,093.10	1	1,447.93	1	1,815.83	1	2,173.67	1	2,535.42	1	2,897.43	1	3,259.31	1	3,621.19	1	3,983.07	1	4,344.95	1	4,706.83	1	5,068.71
1/4	40.04	1/4	400.51	1/4	753.29	1/4	1,100.64	1/4	1,452.47	1/4	1,823.28	1/4	2,181.20	1/4	2,542.95	1/4	2,904.48	1/4	3,266.09	1/4	3,627.71	1/4	3,989.33	1/4	4,350.95	1/4	4,712.57	1/4	5,074.19
1/2	46.97	1/2	408.05	1/2	760.32	1/2	1,108.18	1/2	1,477.55	1/2	1,830.72	1/2	2,186.73	1/2	2,550.48	1/2	2,912.02	1/2	3,273.55	1/2	3,635.08	1/2	3,996.61	1/2	4,358.14	1/2	4,719.67	1/2	5,081.20
3/4	53.90	3/4	415.60	3/4	767.36	3/4	1,115.71	3/4	1,485.08	3/4	1,838.17	3/4	2,196.35	3/4	2,558.01	3/4	2,919.55	3/4	3,281.15	3/4	3,642.75	3/4	3,999.35	3/4	4,360.95	3/4	4,722.55	3/4	5,084.15
2	60.83	2	423.14	2	774.39	2	1,123.25	2	1,492.62	2	1,845.62	2	2,203.78	2	2,565.53	2	2,927.08	2	3,288.69	2	3,650.29	2	3,999.35	2	4,360.95	2	4,722.55	2	5,084.15
1/4	68.39	1/4	430.68	1/4	781.43	1/4	1,130.79	1/4	1,499.99	1/4	1,853.06	1/4	2,211.32	1/4	2,573.06	1/4	2,934.62	1/4	3,296.22	1/4	3,657.82	1/4	3,999.35	1/4	4,360.95	1/4	4,722.55	1/4	5,084.15
1/2	75.94	1/2	438.22	1/2	788.47	1/2	1,138.33	1/2	1,507.70	1/2	1,860.50	1/2	2,218.85	1/2	2,580.59	1/2	2,942.15	1/2	3,303.75	1/2	3,665.35	1/2	3,999.35	1/2	4,360.95	1/2	4,722.55	1/2	5,084.15
3/4	83.50	3/4	445.76	3/4	795.51	3/4	1,145.87	3/4	1,515.24	3/4	1,867.94	3/4	2,226.39	3/4	2,588.12	3/4	2,949.68	3/4	3,311.29	3/4	3,672.89	3/4	3,999.35	3/4	4,360.95	3/4	4,722.55	3/4	5,084.15
3	91.06	3	453.30	3	802.54	3	1,153.42	3	1,522.77	3	1,875.38	3	2,233.93	3	2,595.65	3	2,957.22	3	3,318.82	3	3,680.42	3	3,999.35	3	4,360.95	3	4,722.55	3	5,084.15
1/4	98.62	1/4	460.85	1/4	809.58	1/4	1,160.95	1/4	1,532.22	1/4	1,888.81	1/4	2,244.47	1/4	2,603.17	1/4	2,964.75	1/4	3,326.35	1/4	3,687.95	1/4	3,999.35	1/4	4,360.95	1/4	4,722.55	1/4	5,084.15
1/2	106.18	1/2	468.39	1/2	816.62	1/2	1,168.49	1/2	1,540.46	1/2	1,892.25	1/2	2,249.01	1/2	2,610.70	1/2	2,972.28	1/2	3,333.89	1/2	3,695.49	1/2	3,999.35	1/2	4,360.95	1/2	4,722.55	1/2	5,084.15
3/4	113.73	3/4	475.94	3/4	823.66	3/4	1,176.03	3/4	1,537.85	3/4	1,897.68	3/4	2,256.36	3/4	2,618.23	3/4	2,979.82	3/4	3,341.42	3/4	3,703.02	3/4	3,999.35	3/4	4,360.95	3/4	4,722.55	3/4	5,084.15
4	121.29	4	483.48	4	830.69	4	1,183.57	4	1,545.39	4	1,912.55	4	2,264.10	4	2,625.76	4	2,987.35	4	3,348.95	4	3,710.55	4	3,999.35	4	4,360.95	4	4,722.55	4	5,084.15
1/4	128.84	1/4	491.03	1/4	837.73	1/4	1,191.11	1/4	1,552.92	1/4	1,912.55	1/4	2,271.65	1/4	2,633.29	1/4	2,994.88	1/4	3,356.43	1/4	3,718.03	1/4	3,999.35	1/4	4,360.95	1/4	4,722.55	1/4	5,084.15
1/2	136.40	1/2	498.58	1/2	844.77	1/2	1,198.65	1/2	1,560.46	1/2	1,919.98	1/2	2,279.19	1/2	2,640.82	1/2	2,999.95	1/2	3,364.04	1/2	3,725.64	1/2	3,999.35	1/2	4,360.95	1/2	4,722.55	1/2	5,084.15
3/4	143.95	3/4	506.12	3/4	851.81	3/4	1,206.19	3/4	1,568.00	3/4	1,927.42	3/4	2,286.73	3/4	2,648.35	3/4	3,009.95	3/4	3,371.38	3/4	3,732.98	3/4	3,999.35	3/4	4,360.95	3/4	4,722.55	3/4	5,084.15
5	151.50	5	513.67	5	858.84	5	1,213.73	5	1,575.94	5	1,934.85	5	2,294.82	5	2,656.88	5	3,017.48	5	3,378.86	5	3,739.24	5	4,099.82	5	4,460.20	5	4,820.58	5	5,181.00
1/4	159.05	1/4	521.21	1/4	865.88	1/4	1,221.26	1/4	1,583.07	1/4	1,942.28	1/4	2,301.82	1/4	2,663.41	1/4	3,025.02	1/4	3,386.62	1/4	3,748.22	1/4	4,108.68	1/4	4,469.06	1/4	4,829.44	1/4	5,190.82
1/2	166.59	1/2	528.76	1/2	872.91	1/2	1,228.80	1/2	1,590.61	1/2	1,949.72	1/2	2,309.37	1/2	2,670.95	1/2	3,032.55	1/2	3,394.15	1/2	3,755.75	1/2	4,116.31	1/2	4,476.69	1/2	4,837.07	1/2	5,197.43
3/4	174.14	3/4	536.31	3/4	879.94	3/4	1,236.34	3/4	1,598.15	3/4	1,957.15	3/4	2,316.91	3/4	2,678.48	3/4	3,040.08	3/4	3,401.68	3/4	3,763.28	3/4	4,124.88	3/4	4,485.26	3/4	4,845.64	3/4	5,208.80
6	181.68	6	543.85	6	886.97	6	1,243.88	6	1,605.69	6	1,964.59	6	2,324.46	6	2,686.01	6	3,047.62	6	3,408.55	6	3,769.99	6	4,131.33	6	4,491.71	6	4,852.09	6	5,212.51
1/4	189.23	1/4	551.40	1/4	894.02	1/4	1,251.42	1/4	1,613.22	1/4	1,972.02	1/4	2,332.00	1/4	2,693.55	1/4	3,055.15	1/4	3,416.68	1/4	3,778.20	1/4	4,139.72	1/4	4,500.24	1/4	4,860.76	1/4	5,221.28
1/2	196.78	1/2	558.94	1/2	901.06	1/2	1,258.95	1/2	1,620.76	1/2	1,979.45	1/2	2,339.54	1/2	2,701.08	1/2	3,062.68	1/2	3,424.28	1/2	3,785.88	1/2	4,147.40	1/2	4,507.92	1/2	4,868.44	1/2	5,231.86
3/4	204.32	3/4	566.49	3/4	908.10	3/4	1,266.49	3/4	1,628.30	3/4	1,986.89	3/4	2,347.09	3/4	2,708.61	3/4	3,070.22	3/4	3,431.82	3/4	3,792.42	3/4	4,153.02	3/4	4,513.54	3/4	4,874.06	3/4	5,234.60
7	211.87	7	574.04	7	915.14	7	1,274.03	7	1,635.84	7	1,994.32	7	2,354.63	7	2,716.15	7	3,077.75	7	3,439.35	7	3,800.95	7	4,162.55	7	4,523.05	7	4,883.57	7	5,244.09
1/4	219.41	1/4	581.58	1/4	922.21	1/4	1,281.57	1/4	1,643.37	1/4	2,001.75	1/4	2,362.18	1/4	2,723.68	1/4	3,085.28	1/4	3,446.88	1/4	3,808.48	1/4	4,169.98	1/4	4,530.48	1/4	4,891.98	1/4	5,252.48
1/2	226.96	1/2	589.13	1/2	929.27	1/2	1,289.11	1/2	1,650.91	1/2	2,009.19	1/2	2,369.72	1/2	2,731.21	1/2	3,092.82	1/2	3,455.42	1/2	3,817.02	1/2	4,178.52	1/2	4,539.02	1/2	4,900.52	1/2	5,261.02
3/4	234.51	3/4	596.68	3/4	936.33	3/4	1,296.64	3/4	1,658.45	3/4	2,016.62	3/4	2,377.66	3/4	2,738.75	3/4	3,100.35	3/4	3,462.95	3/4	3,824.55	3/4	4,185.05	3/4	4,545.55	3/4	4,906.05	3/4	5,267.55
8	242.05	8	604.22	8	943.39	8	1,304.18	8	1,665.99	8	2,024.06	8	2,384.80	8	2,746.28	8	3,107.88	8	3,469.48	8	3,831.08	8	4,191.58	8	4,552.08	8	4,912.58	8	5,273.08
1/4	249.60	1/4	611.53	1/4	950.69	1/4	1,311.72	1/4	1,673.52	1/4	2,031.49	1/4	2,392.34	1/4	2,753.81	1/4	3,115.42	1/4	3,477.02	1/4	3,838.62	1/4	4,199.12	1/4	4,559.62	1/4	4,920.12	1/4	5,280.62
1/2	257.15	1/2	618.84	1/2	957.99	1/2	1,319.26	1/2	1,681.06	1/2	2,038.92	1/2	2,399.88	1/2	2,761.35	1/2	3,122.95	1/2	3,484.55	1/2	3,846.15	1/2	4,207.65	1/2	4,568.15	1/2	4,928.65	1/2	5,289.15
3/4	264.69	3/4	626.15	3/4	965.29	3/4	1,326.80	3/4																					



BARGE "EMS 531"

3 STBD
INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-06"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,585.62	0	3,856.24	0	4,123.44	0	4,376.52	0	4,611.35	0									
1/4	3,591.71	1/4	3,861.83	1/4	4,128.87	1/4	4,381.58	1/4	4,616.22	1/4				1/4				1/4	
1/2	3,597.79	1/2	3,867.43	1/2	4,134.31	1/2	4,386.65	1/2	4,621.10	1/2				1/2				1/2	
3/4	3,603.88	3/4	3,873.03	3/4	4,139.75	3/4	4,391.71	3/4	4,625.97	3/4				3/4				3/4	
1	3,609.97	1	3,878.63	1	4,145.19	1	4,396.78	1	4,630.84	1				1				1	
1/4	3,615.56	1/4	3,884.22	1/4	4,150.60	1/4	4,401.81	1/4	4,636.13	1/4				1/4				1/4	
1/2	3,621.16	1/2	3,889.82	1/2	4,156.02	1/2	4,406.84	1/2	4,641.42	1/2				1/2				1/2	
3/4	3,626.76	3/4	3,895.42	3/4	4,161.43	3/4	4,411.88	3/4	4,646.70	3/4				3/4				3/4	
2	3,632.35	2	3,901.01	2	4,166.84	2	4,416.91	2	4,651.99	2				2				2	
1/4	3,637.95	1/4	3,906.61	1/4	4,172.22	1/4	4,421.92	1/4	4,657.49	1/4				1/4				1/4	
1/2	3,643.55	1/2	3,912.21	1/2	4,177.60	1/2	4,426.93	1/2	4,662.99	1/2				1/2				1/2	
3/4	3,649.15	3/4	3,917.81	3/4	4,182.98	3/4	4,431.93	3/4	4,668.49	3/4				3/4				3/4	
3	3,654.74	3	3,923.40	3	4,188.37	3	4,436.94	3	4,673.99	3				3				3	
1/4	3,660.34	1/4	3,929.00	1/4	4,193.72	1/4	4,441.92	1/4	4,679.39	1/4				1/4				1/4	
1/2	3,665.94	1/2	3,934.60	1/2	4,199.07	1/2	4,446.89	1/2	4,684.80	1/2				1/2				1/2	
3/4	3,671.53	3/4	3,940.19	3/4	4,204.43	3/4	4,451.87	3/4	4,690.20	3/4				3/4				3/4	
4	3,677.13	4	3,945.79	4	4,209.78	4	4,456.85	4	4,695.60	4				4				4	
1/4	3,682.73	1/4	3,951.39	1/4	4,215.11	1/4	4,461.80	1/4	4,700.25	1/4				1/4				1/4	
1/2	3,688.32	1/2	3,956.99	1/2	4,220.43	1/2	4,466.75	1/2	4,704.90	1/2				1/2				1/2	
3/4	3,693.92	3/4	3,962.58	3/4	4,225.76	3/4	4,471.70	3/4	4,709.55	3/4				3/4				3/4	
5	3,699.52	5	3,968.18	5	4,231.08	5	4,476.65	5	4,714.20	5				5				5	
1/4	3,705.12	1/4	3,973.78	1/4	4,236.38	1/4	4,481.57	1/4	4,717.43	1/4				1/4				1/4	
1/2	3,710.71	1/2	3,979.37	1/2	4,241.68	1/2	4,486.49	1/2	4,720.66	1/2				1/2				1/2	
3/4	3,716.31	3/4	3,984.97	3/4	4,246.97	3/4	4,491.41	3/4	4,723.89	3/4				3/4				3/4	
8	3,721.91	8	3,990.57	8	4,252.27	8	4,496.33	8	4,727.12	8				8				8	
1/4	3,727.50	1/4	3,996.16	1/4	4,257.54	1/4	4,501.22	1/4	4,732.89	1/4				1/4				1/4	
1/2	3,733.10	1/2	4,001.75	1/2	4,262.80	1/2	4,506.11	1/2	4,738.00	1/2				1/2				1/2	
3/4	3,738.70	3/4	4,007.35	3/4	4,268.07	3/4	4,511.00	3/4	4,743.11	3/4				3/4				3/4	
7	3,744.30	7	4,012.94	7	4,273.34	7	4,515.89	7	4,748.22	7				7				7	
1/4	3,749.89	1/4	4,018.52	1/4	4,278.58	1/4	4,520.76	1/4	4,753.33	1/4				1/4				1/4	
1/2	3,755.49	1/2	4,024.10	1/2	4,283.82	1/2	4,525.62	1/2	4,758.44	1/2				1/2				1/2	
3/4	3,761.09	3/4	4,029.68	3/4	4,289.06	3/4	4,530.48	3/4	4,763.55	3/4				3/4				3/4	
8	3,766.68	8	4,035.26	8	4,294.30	8	4,535.34	8	4,768.66	8				8				8	
1/4	3,772.28	1/4	4,040.81	1/4	4,299.49	1/4	4,540.18	1/4	4,773.77	1/4				1/4				1/4	
1/2	3,777.88	1/2	4,046.36	1/2	4,304.68	1/2	4,545.01	1/2	4,778.88	1/2				1/2				1/2	
3/4	3,783.48	3/4	4,051.92	3/4	4,309.88	3/4	4,549.85	3/4	4,783.99	3/4				3/4				3/4	
9	3,789.07	9	4,057.47	9	4,315.07	9	4,554.68	9	4,789.10	9				9				9	
1/4	3,794.67	1/4	4,063.00	1/4	4,320.22	1/4	4,559.46	1/4	4,794.21	1/4				1/4				1/4	
1/2	3,800.27	1/2	4,068.52	1/2	4,325.37	1/2	4,564.23	1/2	4,799.32	1/2				1/2				1/2	
3/4	3,805.86	3/4	4,074.05	3/4	4,330.52	3/4	4,569.00	3/4	4,804.43	3/4				3/4				3/4	
10	3,811.46	10	4,079.57	10	4,335.67	10	4,573.77	10	4,809.54	10				10				10	
1/4	3,817.06	1/4	4,085.07	1/4	4,340.79	1/4	4,578.49	1/4	4,814.65	1/4				1/4				1/4	
1/2	3,822.66	1/2	4,090.57	1/2	4,345.91	1/2	4,583.20	1/2	4,819.76	1/2				1/2				1/2	
3/4	3,828.25	3/4	4,096.07	3/4	4,351.03	3/4	4,587.91	3/4	4,824.87	3/4				3/4				3/4	
11	3,833.85	11	4,101.56	11	4,356.15	11	4,592.62	11	4,829.98	11				11				11	
1/4	3,839.45	1/4	4,107.03	1/4	4,361.25	1/4	4,597.30	1/4	4,835.09	1/4				1/4				1/4	
1/2	3,845.04	1/2	4,112.50	1/2	4,366.34	1/2	4,601.99	1/2	4,840.20	1/2				1/2				1/2	
3/4	3,850.64	3/4	4,117.97	3/4	4,371.43	3/4	4,606.67	3/4	4,845.31	3/4				3/4				3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/08/2024 JS
CALCULATED: 10/08/2024 CL
PRINTED: 10/09/2024 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2024

PRECISION MEASUREMENT
& ANALYSIS, INC.

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