



# BARGE "MM 31 B" MAGNOLIA MARINE

## INNAGE TABLE

# 1 PORT OR STAR

BARGE SHOULD BE ON EVEN-LEVEL KEEL WHEN GAUGES ARE TAKEN

HULL NO. 4591

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.		10 FT.		11 FT.		12 FT.		13 FT.		14 FT.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0	12.57	0	277.10	0	553.34	0	834.23	0	1,115.13	0	1,396.03	0	1,676.92	0	1,957.82	0	2,238.71	0	2,518.77	0	2,798.76	0	3,049.47	0		0		0	
1/4	16.22	1/4	282.95	1/4	559.19	1/4	840.08	1/4	1,120.98	1/4	1,401.88	1/4	1,682.77	1/4	1,963.67	1/4	2,244.57	1/4	2,524.61	1/4	2,804.59	1/4	3,052.09	1/4		1/4		1/4	
1/2	19.88	1/2	288.80	1/2	565.04	1/2	845.94	1/2	1,126.83	1/2	1,407.73	1/2	1,688.63	1/2	1,969.52	1/2	2,250.42	1/2	2,530.44	1/2	2,810.42	1/2	3,054.70	1/2		1/2		1/2	
3/4	23.54	3/4	294.65	3/4	570.89	3/4	851.79	3/4	1,132.69	3/4	1,413.58	3/4	1,694.48	3/4	1,975.37	3/4	2,256.27	3/4	2,536.27	3/4	2,816.26	3/4	3,057.32	3/4		3/4		3/4	
1	27.19	1	300.51	1	576.74	1	857.64	1	1,138.54	1	1,419.43	1	1,700.33	1	1,981.23	1	2,262.12	1	2,542.11	1	2,822.09	1	3,059.93	1		1		1	
1/4	32.31	1/4	306.36	1/4	582.60	1/4	863.49	1/4	1,144.39	1/4	1,425.29	1/4	1,706.18	1/4	1,987.08	1/4	2,267.95	1/4	2,547.94	1/4	2,827.92	1/4	3,061.96	1/4		1/4		1/4	
1/2	37.43	1/2	312.21	1/2	588.45	1/2	869.34	1/2	1,150.24	1/2	1,431.14	1/2	1,712.03	1/2	1,992.93	1/2	2,273.79	1/2	2,553.77	1/2	2,833.76	1/2	3,063.99	1/2		1/2		1/2	
3/4	42.55	3/4	318.06	3/4	594.30	3/4	875.20	3/4	1,156.09	3/4	1,436.99	3/4	1,717.89	3/4	1,998.78	3/4	2,279.62	3/4	2,559.60	3/4	2,839.59	3/4	3,066.01	3/4		3/4		3/4	
2	47.67	2	323.91	2	600.15	2	881.05	2	1,161.95	2	1,442.84	2	1,723.74	2	2,004.63	2	2,285.45	2	2,565.44	2	2,845.42	2	3,068.04	2		2		2	
1/4	52.94	1/4	329.77	1/4	606.00	1/4	886.90	1/4	1,167.80	1/4	1,448.69	1/4	1,729.59	1/4	2,010.49	1/4	2,291.29	1/4	2,571.27	1/4	2,851.25	1/4	3,069.48	1/4		1/4		1/4	
1/2	58.21	1/2	335.62	1/2	611.86	1/2	892.75	1/2	1,173.65	1/2	1,454.55	1/2	1,735.44	1/2	2,016.34	1/2	2,297.12	1/2	2,577.10	1/2	2,857.09	1/2	3,070.93	1/2		1/2		1/2	
3/4	63.48	3/4	341.47	3/4	617.71	3/4	898.60	3/4	1,179.50	3/4	1,460.40	3/4	1,741.29	3/4	2,022.19	3/4	2,302.95	3/4	2,582.94	3/4	2,862.92	3/4	3,072.37	3/4		3/4		3/4	
3	68.75	3	347.32	3	623.56	3	904.46	3	1,185.35	3	1,466.25	3	1,747.15	3	2,028.04	3	2,308.79	3	2,588.77	3	2,868.75	3	3,073.81	3		3		3	
1/4	74.02	1/4	353.17	1/4	629.41	1/4	910.31	1/4	1,191.21	1/4	1,472.10	1/4	1,753.00	1/4	2,033.89	1/4	2,314.62	1/4	2,594.60	1/4	2,874.59	1/4	3,074.67	1/4		1/4		1/4	
1/2	79.29	1/2	359.03	1/2	635.26	1/2	916.16	1/2	1,197.06	1/2	1,477.95	1/2	1,758.85	1/2	2,039.75	1/2	2,320.45	1/2	2,600.44	1/2	2,880.42	1/2	3,075.53	1/2		1/2		1/2	
3/4	84.56	3/4	364.88	3/4	641.12	3/4	922.01	3/4	1,202.91	3/4	1,483.81	3/4	1,764.70	3/4	2,045.60	3/4	2,326.28	3/4	2,606.27	3/4	2,886.25	3/4	3,076.39	3/4		3/4		3/4	
4	89.83	4	370.73	4	646.97	4	927.86	4	1,208.76	4	1,489.66	4	1,770.55	4	2,051.45	4	2,332.12	4	2,612.10	4	2,892.09	4	3,077.25	4		4		4	
1/4	95.69	1/4	376.00	1/4	652.82	1/4	933.72	1/4	1,214.61	1/4	1,495.51	1/4	1,776.41	1/4	2,057.30	1/4	2,337.95	1/4	2,617.93	1/4	2,897.92	1/4	3,077.52	1/4		1/4		1/4	
1/2	101.54	1/2	381.27	1/2	658.67	1/2	939.57	1/2	1,220.47	1/2	1,501.36	1/2	1,782.26	1/2	2,063.15	1/2	2,343.78	1/2	2,623.77	1/2	2,903.75	1/2	3,077.79	1/2		1/2		1/2	
3/4	107.39	3/4	386.54	3/4	664.52	3/4	945.42	3/4	1,226.32	3/4	1,507.21	3/4	1,788.11	3/4	2,069.01	3/4	2,349.62	3/4	2,629.60	3/4	2,909.58	3/4	3,078.06	3/4		3/4		3/4	
5	113.24	5	391.81	5	670.38	5	951.27	5	1,232.17	5	1,513.07	5	1,793.96	5	2,074.86	5	2,355.45	5	2,635.43	5	2,915.42	5	3,078.34	5		5		5	
1/4	119.09	1/4	397.08	1/4	676.23	1/4	957.12	1/4	1,238.02	1/4	1,518.92	1/4	1,799.81	1/4	2,080.71	1/4	2,361.28	1/4	2,641.27	1/4	2,921.25	1/4	3,078.61	1/4		1/4		1/4	
1/2	124.95	1/2	402.35	1/2	682.08	1/2	962.98	1/2	1,243.87	1/2	1,524.77	1/2	1,805.67	1/2	2,086.56	1/2	2,367.12	1/2	2,647.10	1/2	2,927.08	1/2	3,078.88	1/2		1/2		1/2	
3/4	130.80	3/4	407.62	3/4	687.93	3/4	968.83	3/4	1,249.73	3/4	1,530.62	3/4	1,811.52	3/4	2,092.41	3/4	2,372.95	3/4	2,652.93	3/4	2,932.92	3/4	3,079.15	3/4		3/4		3/4	
6	136.65	6	412.89	6	693.78	6	974.68	6	1,255.58	6	1,536.47	6	1,817.37	6	2,098.27	6	2,378.78	6	2,658.77	6	2,938.75	6	3,079.42	6		6		6	
1/4	142.50	1/4	418.74	1/4	699.64	1/4	980.53	1/4	1,261.43	1/4	1,542.33	1/4	1,823.22	1/4	2,104.12	1/4	2,384.61	1/4	2,664.60	1/4	2,944.58	1/4	3,079.69	1/4		1/4		1/4	
1/2	148.35	1/2	424.59	1/2	705.49	1/2	986.38	1/2	1,267.28	1/2	1,548.18	1/2	1,829.07	1/2	2,109.97	1/2	2,390.45	1/2	2,670.43	1/2	2,950.42	1/2	3,079.96	1/2		1/2		1/2	
3/4	154.21	3/4	430.44	3/4	711.34	3/4	992.24	3/4	1,273.13	3/4	1,554.03	3/4	1,834.93	3/4	2,115.82	3/4	2,396.28	3/4	2,676.26	3/4	2,956.25	3/4	3,080.23	3/4		3/4		3/4	
7	160.06	7	436.30	7	717.19	7	998.09	7	1,278.99	7	1,559.88	7	1,840.78	7	2,121.67	7	2,402.11	7	2,682.10	7	2,962.08	7	3,080.50	7		7		7	
1/4	165.91	1/4	442.15	1/4	723.04	1/4	1,003.94	1/4	1,284.84	1/4	1,565.73	1/4	1,846.63	1/4	2,127.53	1/4	2,407.95	1/4	2,687.93	1/4	2,967.62	1/4	3,080.77	1/4		1/4		1/4	
1/2	171.76	1/2	448.00	1/2	728.90	1/2	1,009.79	1/2	1,290.69	1/2	1,571.59	1/2	1,852.48	1/2	2,133.38	1/2	2,413.78	1/2	2,693.76	1/2	2,973.16	1/2	3,081.04	1/2		1/2		1/2	
3/4	177.61	3/4	453.85	3/4	734.75	3/4	1,015.65	3/4	1,296.54	3/4	1,577.44	3/4	1,858.33	3/4	2,139.23	3/4	2,419.61	3/4	2,699.60	3/4	2,978.70	3/4	3,081.31	3/4		3/4		3/4	
8	183.47	8	459.70	8	740.60	8	1,021.50	8	1,302.39	8	1,583.29	8	1,864.19	8	2,145.08	8	2,425.45	8	2,705.43	8	2,984.24	8	3,081.58	8		8		8	
1/4	189.32	1/4	465.56	1/4	746.45	1/4	1,027.35	1/4	1,308.25	1/4	1,589.14	1/4	1,870.04	1/4	2,150.93	1/4	2,431.28	1/4	2,711.26	1/4	2,989.20	1/4	3,081.85	1/4		1/4		1/4	
1/2	195.17	1/2	471.41	1/2	752.30	1/2	1,033.20	1/2	1,314.10	1/2	1,594.99	1/2	1,875.89	1/2	2,156.79	1/2	2,437.11	1/2	2,717.10	1/2	2,994.15	1/2	3,082.12	1/2		1/2		1/2	
3/4	201.02	3/4	477.26	3/4	758.16	3/4	1,039.05	3/4	1,319.95	3/4	1,600.85	3/4	1,881.74	3/4	2,162.64	3/4	2,442.94	3/4	2,722.93	3/4	2,999.10	3/4	3,082.39	3/4		3/4		3/4	
9	206.87	9	483.11	9	764.01	9	1,044.91	9	1,325.80	9	1,606.70	9	1,887.59	9	2,168.49	9	2,448.78	9	2,728.76	9	3,004.06	9	3,082.66	9		9		9	
1/4	212.73	1/4	488.96	1/4	769.86	1/4	1,050.76	1/4	1,331.65	1/4	1,612.55	1/4	1,893.45	1/4	2,174.34	1/4	2,454.61	1/4	2,734.59	1/4	3,008.43	1/4	3,082.93	1/4		1/4		1/4	
1/2	218.58	1/2	494.82	1/2	775.71	1/2	1,056.61	1/2	1,337.51	1/2	1,618.40	1/2	1,899.30	1/2	2,180.19	1/2	2,460.44	1/2	2,740.43	1/2	3,012.80	1/2	3,083.20	1/2		1/2		1/2	
3/4	224.43	3/4	500.67	3/4	781.56	3/4	1,062.46	3/4	1,343.36	3/4	1,624.25	3/4	1,905.15	3/4	2,186.05	3/4	2,466.28	3/4	2,746.26	3/4	3,017.17	3/4	3,083.47	3/4		3/4		3/4	
10	230.28	10	506.52	10	787.42	10	1,068.31	10	1,349.21	10	1,630.11	10	1,911.00	10	2,191.90	10	2,472.11	10	2,752.09	10	3,021.54	10	3,083.74	10		10		10	
1/4	236.13	1/4	512.37	1/4	793.27	1/4	1,074.17	1/4	1,3																				



# BARGE "MM 31 B" MAGNOLIA MARINE

## INNAGE TABLE

## 2 PORT OR STAR

BARGE SHOULD BE ON EVEN-LEVEL KEEL WHEN GAUGES ARE TAKEN

HULL NO. 4591

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.		10 FT.		11 FT.		12 FT.		13 FT.		14 FT.	
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0	*	13.54	0	300.14	0	599.42	0	903.74	0	1,208.06	0	1,512.38	0	1,816.70	0	2,121.02	0	2,425.34	0	2,728.78	0	3,032.14	0	3,303.78	0		0		0
1/4		17.50	1/4	306.48	1/4	605.76	1/4	910.08	1/4	1,214.40	1/4	1,518.72	1/4	1,823.04	1/4	2,127.36	1/4	2,431.68	1/4	2,735.10	1/4	3,038.46	1/4	3,306.61	1/4		1/4		1/4
1/2		21.47	1/2	312.82	1/2	612.10	1/2	916.42	1/2	1,220.74	1/2	1,525.06	1/2	1,829.38	1/2	2,133.70	1/2	2,438.02	1/2	2,741.42	1/2	3,044.78	1/2	3,309.45	1/2		1/2		1/2
3/4		25.43	3/4	319.16	3/4	618.44	3/4	922.76	3/4	1,227.08	3/4	1,531.40	3/4	1,835.72	3/4	2,140.04	3/4	2,444.36	3/4	2,747.74	3/4	3,051.10	3/4	3,312.28	3/4		3/4		3/4
1		29.39	1	325.50	1	624.78	1	929.10	1	1,233.42	1	1,537.74	1	1,842.06	1	2,146.38	1	2,450.70	1	2,754.06	1	3,057.42	1	3,315.11	1		1		1
1/4		34.94	1/4	331.84	1/4	631.12	1/4	935.44	1/4	1,239.76	1/4	1,544.08	1/4	1,848.40	1/4	2,152.72	1/4	2,457.02	1/4	2,760.38	1/4	3,063.74	1/4	3,317.31	1/4		1/4		1/4
1/2		40.48	1/2	338.18	1/2	637.46	1/2	941.78	1/2	1,246.10	1/2	1,550.42	1/2	1,854.74	1/2	2,159.06	1/2	2,463.34	1/2	2,766.70	1/2	3,070.06	1/2	3,319.50	1/2		1/2		1/2
3/4		46.03	3/4	344.52	3/4	643.80	3/4	948.12	3/4	1,252.44	3/4	1,556.76	3/4	1,861.08	3/4	2,165.40	3/4	2,469.66	3/4	2,773.02	3/4	3,076.38	3/4	3,321.70	3/4		3/4		3/4
2		51.58	2	350.86	2	650.14	2	954.46	2	1,258.78	2	1,563.10	2	1,867.42	2	2,171.74	2	2,475.98	2	2,779.34	2	3,082.70	2	3,323.90	2		2		2
1/4		57.29	1/4	357.20	1/4	656.48	1/4	960.80	1/4	1,265.12	1/4	1,569.44	1/4	1,873.76	1/4	2,178.08	1/4	2,482.30	1/4	2,785.66	1/4	3,089.02	1/4	3,325.46	1/4		1/4		1/4
1/2		63.00	1/2	363.54	1/2	662.82	1/2	967.14	1/2	1,271.46	1/2	1,575.78	1/2	1,880.10	1/2	2,184.42	1/2	2,488.62	1/2	2,791.98	1/2	3,095.34	1/2	3,327.02	1/2		1/2		1/2
3/4		68.71	3/4	369.88	3/4	669.16	3/4	973.48	3/4	1,277.80	3/4	1,582.12	3/4	1,886.44	3/4	2,190.76	3/4	2,494.94	3/4	2,798.30	3/4	3,101.66	3/4	3,328.59	3/4		3/4		3/4
3		74.42	3	376.22	3	675.50	3	979.82	3	1,284.14	3	1,588.46	3	1,892.78	3	2,197.10	3	2,501.26	3	2,804.62	3	3,107.98	3	3,330.15	3		3		3
1/4		80.13	1/4	382.56	1/4	681.84	1/4	986.16	1/4	1,290.48	1/4	1,594.80	1/4	1,899.12	1/4	2,203.44	1/4	2,507.58	1/4	2,810.94	1/4	3,114.30	1/4	3,331.08	1/4		1/4		1/4
1/2		85.84	1/2	388.90	1/2	688.18	1/2	992.50	1/2	1,296.82	1/2	1,601.14	1/2	1,905.46	1/2	2,209.78	1/2	2,513.90	1/2	2,817.26	1/2	3,120.62	1/2	3,332.01	1/2		1/2		1/2
3/4		91.55	3/4	395.24	3/4	694.52	3/4	998.84	3/4	1,303.16	3/4	1,607.48	3/4	1,911.80	3/4	2,216.12	3/4	2,520.22	3/4	2,823.58	3/4	3,126.94	3/4	3,332.94	3/4		3/4		3/4
4		97.26	4	401.58	4	700.86	4	1,005.18	4	1,309.50	4	1,613.82	4	1,918.14	4	2,222.46	4	2,526.54	4	2,829.90	4	3,133.26	4	3,333.87	4		4		4
1/4		103.60	1/4	407.29	1/4	707.20	1/4	1,011.52	1/4	1,315.84	1/4	1,620.16	1/4	1,924.48	1/4	2,228.80	1/4	2,532.86	1/4	2,836.22	1/4	3,139.58	1/4	3,334.17	1/4		1/4		1/4
1/2		109.94	1/2	413.00	1/2	713.54	1/2	1,017.86	1/2	1,322.18	1/2	1,626.50	1/2	1,930.82	1/2	2,235.14	1/2	2,539.18	1/2	2,842.54	1/2	3,145.90	1/2	3,334.46	1/2		1/2		1/2
3/4		116.28	3/4	418.71	3/4	719.88	3/4	1,024.20	3/4	1,328.52	3/4	1,632.84	3/4	1,937.16	3/4	2,241.48	3/4	2,545.50	3/4	2,848.86	3/4	3,152.22	3/4	3,334.76	3/4		3/4		3/4
5		122.62	5	424.42	5	726.22	5	1,030.54	5	1,334.86	5	1,639.18	5	1,943.50	5	2,247.82	5	2,551.82	5	2,855.18	5	3,158.54	5	<u>3,335.05</u>	5		5		5
1/4		128.96	1/4	430.13	1/4	732.56	1/4	1,036.88	1/4	1,341.20	1/4	1,645.52	1/4	1,949.84	1/4	2,254.16	1/4	2,558.14	1/4	2,861.50	1/4	3,164.86	1/4		1/4		1/4		1/4
1/2		135.30	1/2	435.84	1/2	738.90	1/2	1,043.22	1/2	1,347.54	1/2	1,651.86	1/2	1,956.18	1/2	2,260.50	1/2	2,564.46	1/2	2,867.82	1/2	3,171.18	1/2		1/2		1/2		1/2
3/4		141.64	3/4	441.55	3/4	745.24	3/4	1,049.56	3/4	1,353.88	3/4	1,658.20	3/4	1,962.52	3/4	2,266.84	3/4	2,570.78	3/4	2,874.14	3/4	3,177.50	3/4		3/4		3/4		3/4
6		147.98	6	447.26	6	751.58	6	1,055.90	6	1,360.22	6	1,664.54	6	1,968.86	6	2,273.18	6	2,577.10	6	2,880.46	6	3,183.82	6		6		6		6
1/4		154.32	1/4	453.60	1/4	757.92	1/4	1,062.24	1/4	1,366.56	1/4	1,670.88	1/4	1,975.20	1/4	2,279.52	1/4	2,583.42	1/4	2,886.78	1/4	3,190.14	1/4		1/4		1/4		1/4
1/2		160.66	1/2	459.94	1/2	764.26	1/2	1,068.58	1/2	1,372.90	1/2	1,677.22	1/2	1,981.54	1/2	2,285.86	1/2	2,589.74	1/2	2,893.10	1/2	3,196.46	1/2		1/2		1/2		1/2
3/4		167.00	3/4	466.28	3/4	770.60	3/4	1,074.92	3/4	1,379.24	3/4	1,683.56	3/4	1,987.88	3/4	2,292.20	3/4	2,596.06	3/4	2,899.42	3/4	3,202.78	3/4		3/4		3/4		3/4
7		173.34	7	472.62	7	776.94	7	1,081.26	7	1,385.58	7	1,689.90	7	1,994.22	7	2,298.54	7	2,602.38	7	2,905.74	7	3,209.10	7		7		7		7
1/4		179.68	1/4	478.96	1/4	783.28	1/4	1,087.60	1/4	1,391.92	1/4	1,696.24	1/4	2,000.56	1/4	2,304.88	1/4	2,608.70	1/4	2,912.06	1/4	3,215.10	1/4		1/4		1/4		1/4
1/2		186.02	1/2	485.30	1/2	789.62	1/2	1,093.94	1/2	1,398.26	1/2	1,702.58	1/2	2,006.90	1/2	2,311.22	1/2	2,615.02	1/2	2,918.38	1/2	3,221.10	1/2		1/2		1/2		1/2
3/4		192.36	3/4	491.64	3/4	795.96	3/4	1,100.28	3/4	1,404.60	3/4	1,708.92	3/4	2,013.24	3/4	2,317.56	3/4	2,621.34	3/4	2,924.70	3/4	3,227.10	3/4		3/4		3/4		3/4
8		198.70	8	497.98	8	802.30	8	1,106.62	8	1,410.94	8	1,715.26	8	2,019.58	8	2,323.90	8	2,627.66	8	2,931.02	8	3,233.11	8		8		8		8
1/4		205.04	1/4	504.32	1/4	808.64	1/4	1,112.96	1/4	1,417.28	1/4	1,721.60	1/4	2,025.92	1/4	2,330.24	1/4	2,633.98	1/4	2,937.34	1/4	3,238.47	1/4		1/4		1/4		1/4
1/2		211.38	1/2	510.66	1/2	814.98	1/2	1,119.30	1/2	1,423.62	1/2	1,727.94	1/2	2,032.26	1/2	2,336.58	1/2	2,640.30	1/2	2,943.66	1/2	3,243.84	1/2		1/2		1/2		1/2
3/4		217.72	3/4	517.00	3/4	821.32	3/4	1,125.64	3/4	1,429.96	3/4	1,734.28	3/4	2,038.60	3/4	2,342.92	3/4	2,646.62	3/4	2,949.98	3/4	3,249.21	3/4		3/4		3/4		3/4
9		224.06	9	523.34	9	827.66	9	1,131.98	9	1,436.30	9	1,740.62	9	2,044.94	9	2,349.26	9	2,652.94	9	2,956.30	9	3,254.57	9		9		9		9
1/4		230.40	1/4	529.68	1/4	834.00	1/4	1,138.32	1/4	1,442.64	1/4	1,746.96	1/4	2,051.28	1/4	2,355.60	1/4	2,659.26	1/4	2,962.62	1/4	3,259.31	1/4		1/4		1/4		1/4
1/2		236.74	1/2	536.02	1/2	840.34	1/2	1,144.66	1/2	1,448.98	1/2	1,753.30	1/2	2,057.62	1/2	2,361.94	1/2	2,665.58	1/2	2,968.94	1/2	3,264.04	1/2		1/2		1/2		1/2
3/4		243.08	3/4	542.36	3/4	846.68	3/4	1,151.00	3/4	1,455.32	3/4	1,759.64	3/4	2,063.96	3/4	2,368.28	3/4	2,671.90	3/4	2,975.26	3/4	3,268.78	3/4		3/4		3/4		3/4
10		249.42	10	548.70	10	853.02	10	1,157.34	10	1,461.66	10	1,765.98	10	2,070.30	10	2,374.62	10	2,678.22	10	2,981.58	10	3,273.51	10		10		10		10
1/4		255.76	1/4	555.04	1/4	859.36	1/4	1,163.68	1/4	1,468.00	1/4	1,772.32	1/4	2,076.64	1/4	2,380.96	1/4	2,684.54	1/4	2,987.90	1/4	3,277.61	1/4		1/4		1/4		1/4



# BARGE "MM 31 B" MAGNOLIA MARINE

## INNAGE TABLE

# 3 PORT OR STAR

BARGE SHOULD BE ON EVEN-LEVEL KEEL WHEN GAUGES ARE TAKEN

HULL NO. 4591

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.		10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		
IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.	IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	
0	13.54	0	300.14	0	599.66	0	904.46	0	1,209.26	0	1,514.06	0	1,818.86	0	2,123.66	0	2,428.46	0	2,731.94	0	3,035.30	0	3,306.94	0		0				
1/4	17.50	1/4	306.48	1/4	606.01	1/4	910.81	1/4	1,215.61	1/4	1,520.41	1/4	1,825.21	1/4	2,130.01	1/4	2,434.81	1/4	2,738.26	1/4	3,041.62	1/4	3,309.77	1/4		1/4				
1/2	21.47	1/2	312.82	1/2	612.36	1/2	917.16	1/2	1,221.96	1/2	1,526.76	1/2	1,831.56	1/2	2,136.36	1/2	2,441.16	1/2	2,744.58	1/2	3,047.94	1/2	3,312.61	1/2		1/2				
3/4	25.43	3/4	319.16	3/4	618.71	3/4	923.51	3/4	1,228.31	3/4	1,533.11	3/4	1,837.91	3/4	2,142.71	3/4	2,447.51	3/4	2,750.90	3/4	3,054.26	3/4	3,315.44	3/4		3/4				
1	29.39	1	325.50	1	625.06	1	929.86	1	1,234.66	1	1,539.46	1	1,844.26	1	2,149.06	1	2,453.86	1	2,757.22	1	3,060.58	1	3,318.27	1		1				
1/4	34.94	1/4	331.84	1/4	631.41	1/4	936.21	1/4	1,241.01	1/4	1,545.81	1/4	1,850.61	1/4	2,155.41	1/4	2,460.18	1/4	2,763.54	1/4	3,066.90	1/4	3,320.47	1/4		1/4				
1/2	40.48	1/2	338.18	1/2	637.76	1/2	942.56	1/2	1,247.36	1/2	1,552.16	1/2	1,856.96	1/2	2,161.76	1/2	2,466.50	1/2	2,769.86	1/2	3,073.22	1/2	3,322.66	1/2		1/2				
3/4	46.03	3/4	344.52	3/4	644.11	3/4	948.91	3/4	1,253.71	3/4	1,558.51	3/4	1,863.31	3/4	2,168.11	3/4	2,472.82	3/4	2,776.18	3/4	3,079.54	3/4	3,324.86	3/4		3/4				
2	51.58	2	350.86	2	650.46	2	955.26	2	1,260.06	2	1,564.86	2	1,869.66	2	2,174.46	2	2,479.14	2	2,782.50	2	3,085.86	2	3,327.06	2		2				
1/4	57.29	1/4	357.20	1/4	656.81	1/4	961.61	1/4	1,266.41	1/4	1,571.21	1/4	1,876.01	1/4	2,180.81	1/4	2,485.46	1/4	2,788.82	1/4	3,092.18	1/4	3,328.62	1/4		1/4				
1/2	63.00	1/2	363.54	1/2	663.16	1/2	967.96	1/2	1,272.76	1/2	1,577.56	1/2	1,882.36	1/2	2,187.16	1/2	2,491.78	1/2	2,795.14	1/2	3,098.50	1/2	3,330.18	1/2		1/2				
3/4	68.71	3/4	369.88	3/4	669.51	3/4	974.31	3/4	1,279.11	3/4	1,583.91	3/4	1,888.71	3/4	2,193.51	3/4	2,498.10	3/4	2,801.46	3/4	3,104.82	3/4	3,331.75	3/4		3/4				
3	74.42	3	376.22	3	675.86	3	980.66	3	1,285.46	3	1,590.26	3	1,895.06	3	2,199.86	3	2,504.42	3	2,807.78	3	3,111.14	3	3,333.31	3		3				
1/4	80.13	1/4	382.56	1/4	682.21	1/4	987.01	1/4	1,291.81	1/4	1,596.61	1/4	1,901.41	1/4	2,206.21	1/4	2,510.74	1/4	2,814.10	1/4	3,117.46	1/4	3,334.24	1/4		1/4				
1/2	85.84	1/2	388.90	1/2	688.56	1/2	993.36	1/2	1,298.16	1/2	1,602.96	1/2	1,907.76	1/2	2,212.56	1/2	2,517.06	1/2	2,820.42	1/2	3,123.78	1/2	3,335.17	1/2		1/2				
3/4	91.55	3/4	395.24	3/4	694.91	3/4	999.71	3/4	1,304.51	3/4	1,609.31	3/4	1,914.11	3/4	2,218.91	3/4	2,523.38	3/4	2,826.74	3/4	3,130.10	3/4	3,336.10	3/4		3/4				
4	97.26	4	401.58	4	701.26	4	1,006.06	4	1,310.86	4	1,615.66	4	1,920.46	4	2,225.26	4	2,529.70	4	2,833.06	4	3,136.42	4	3,337.03	4		4				
1/4	103.60	1/4	407.29	1/4	707.61	1/4	1,012.41	1/4	1,317.21	1/4	1,622.01	1/4	1,926.81	1/4	2,231.61	1/4	2,536.02	1/4	2,839.38	1/4	3,142.74	1/4	3,337.33	1/4		1/4				
1/2	109.94	1/2	413.00	1/2	713.96	1/2	1,018.76	1/2	1,323.56	1/2	1,628.36	1/2	1,933.16	1/2	2,237.96	1/2	2,542.34	1/2	2,845.70	1/2	3,149.06	1/2	3,337.62	1/2		1/2				
3/4	116.28	3/4	418.71	3/4	720.31	3/4	1,025.11	3/4	1,329.91	3/4	1,634.71	3/4	1,939.51	3/4	2,244.31	3/4	2,548.66	3/4	2,852.02	3/4	3,155.38	3/4	3,337.92	3/4		3/4				
5	122.62	5	424.42	5	726.66	5	1,031.46	5	1,336.26	5	1,641.06	5	1,945.86	5	2,250.66	5	2,554.98	5	2,858.34	5	3,161.70	5	3,338.21	5		5				
1/4	128.96	1/4	430.13	1/4	733.01	1/4	1,037.81	1/4	1,342.61	1/4	1,647.41	1/4	1,952.21	1/4	2,257.01	1/4	2,561.30	1/4	2,864.66	1/4	3,168.02	1/4	3,338.51	1/4		1/4				
1/2	135.30	1/2	435.84	1/2	739.36	1/2	1,044.16	1/2	1,348.96	1/2	1,653.76	1/2	1,958.56	1/2	2,263.36	1/2	2,567.62	1/2	2,870.98	1/2	3,174.34	1/2	3,338.81	1/2		1/2				
3/4	141.64	3/4	441.55	3/4	745.71	3/4	1,050.51	3/4	1,355.31	3/4	1,660.11	3/4	1,964.91	3/4	2,269.71	3/4	2,573.94	3/4	2,877.30	3/4	3,180.66	3/4	3,339.11	3/4		3/4				
6	147.98	6	447.26	6	752.06	6	1,056.86	6	1,361.66	6	1,666.46	6	1,971.26	6	2,276.06	6	2,580.26	6	2,883.62	6	3,186.98	6	3,339.41	6		6				
1/4	154.32	1/4	453.61	1/4	758.41	1/4	1,063.21	1/4	1,368.01	1/4	1,672.81	1/4	1,977.61	1/4	2,282.41	1/4	2,586.58	1/4	2,889.94	1/4	3,193.30	1/4	3,339.71	1/4		1/4				
1/2	160.66	1/2	459.96	1/2	764.76	1/2	1,069.56	1/2	1,374.36	1/2	1,679.16	1/2	1,983.96	1/2	2,288.76	1/2	2,592.90	1/2	2,896.26	1/2	3,199.62	1/2	3,340.01	1/2		1/2				
3/4	167.00	3/4	466.31	3/4	771.11	3/4	1,075.91	3/4	1,380.71	3/4	1,685.51	3/4	1,990.31	3/4	2,295.11	3/4	2,599.22	3/4	2,902.58	3/4	3,205.94	3/4	3,340.31	3/4		3/4				
7	173.34	7	472.66	7	777.46	7	1,082.26	7	1,387.06	7	1,691.86	7	1,996.66	7	2,301.46	7	2,605.54	7	2,908.90	7	3,212.26	7	3,340.61	7		7				
1/4	179.68	1/4	479.01	1/4	783.81	1/4	1,088.61	1/4	1,393.41	1/4	1,698.21	1/4	2,003.01	1/4	2,307.81	1/4	2,611.86	1/4	2,915.22	1/4	3,218.26	1/4	3,340.91	1/4		1/4				
1/2	186.02	1/2	485.36	1/2	790.16	1/2	1,094.96	1/2	1,399.76	1/2	1,704.56	1/2	2,009.36	1/2	2,314.16	1/2	2,618.18	1/2	2,921.54	1/2	3,224.26	1/2	3,341.21	1/2		1/2				
3/4	192.36	3/4	491.71	3/4	796.51	3/4	1,101.31	3/4	1,406.11	3/4	1,710.91	3/4	2,015.71	3/4	2,320.51	3/4	2,624.50	3/4	2,927.86	3/4	3,230.26	3/4	3,341.51	3/4		3/4				
8	198.70	8	498.06	8	802.86	8	1,107.66	8	1,412.46	8	1,717.26	8	2,022.06	8	2,326.86	8	2,630.82	8	2,934.18	8	3,236.27	8	3,341.81	8		8				
1/4	205.04	1/4	504.41	1/4	809.21	1/4	1,114.01	1/4	1,418.81	1/4	1,723.61	1/4	2,028.41	1/4	2,333.21	1/4	2,637.14	1/4	2,940.50	1/4	3,241.63	1/4	3,342.11	1/4		1/4				
1/2	211.38	1/2	510.76	1/2	815.56	1/2	1,120.36	1/2	1,425.16	1/2	1,729.96	1/2	2,034.76	1/2	2,339.56	1/2	2,643.46	1/2	2,946.82	1/2	3,247.00	1/2	3,342.41	1/2		1/2				
3/4	217.72	3/4	517.11	3/4	821.91	3/4	1,126.71	3/4	1,431.51	3/4	1,736.31	3/4	2,041.11	3/4	2,345.91	3/4	2,649.78	3/4	2,953.14	3/4	3,252.37	3/4	3,342.71	3/4		3/4				
9	224.06	9	523.46	9	828.26	9	1,133.06	9	1,437.86	9	1,742.66	9	2,047.46	9	2,352.26	9	2,656.10	9	2,959.46	9	3,257.73	9	3,343.01	9		9				
1/4	230.40	1/4	529.81	1/4	834.61	1/4	1,139.41																							



# BARGE "MM 31 B" MAGNOLIA MARINE

## INNAGE TABLE

## 4 PORT OR STAR

BARGE SHOULD BE ON EVEN-LEVEL KEEL WHEN GAUGES ARE TAKEN

HULL NO. 4591

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.		10 FT.		11 FT.		12 FT.		13 FT.		14 FT.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0	13.54	0	300.14	0	598.65	0	901.43	0	1,204.22	0	1,507.00	0	1,809.79	0	2,112.57	0	2,415.35	0	2,718.67	0	3,022.03	0	3,293.67	0		0		0	
1/4	17.50	1/4	306.48	1/4	604.96	1/4	907.74	1/4	1,210.53	1/4	1,513.31	1/4	1,816.09	1/4	2,118.88	1/4	2,421.66	1/4	2,724.99	1/4	3,028.35	1/4	3,296.50	1/4		1/4		1/4	
1/2	21.47	1/2	312.82	1/2	611.26	1/2	914.05	1/2	1,216.83	1/2	1,519.62	1/2	1,822.40	1/2	2,125.19	1/2	2,427.97	1/2	2,731.31	1/2	3,034.67	1/2	3,299.33	1/2		1/2		1/2	
3/4	25.43	3/4	319.16	3/4	617.57	3/4	920.36	3/4	1,223.14	3/4	1,525.93	3/4	1,828.71	3/4	2,131.49	3/4	2,434.28	3/4	2,737.63	3/4	3,040.99	3/4	3,302.17	3/4		3/4		3/4	
1	29.39	1	325.50	1	623.88	1	926.66	1	1,229.45	1	1,532.23	1	1,835.02	1	2,137.80	1	2,440.59	1	2,743.95	1	3,047.31	1	3,305.00	1		1		1	
1/4	34.94	1/4	331.84	1/4	630.19	1/4	932.97	1/4	1,235.76	1/4	1,538.54	1/4	1,841.33	1/4	2,144.11	1/4	2,446.91	1/4	2,750.27	1/4	3,053.63	1/4	3,307.19	1/4		1/4		1/4	
1/2	40.48	1/2	338.18	1/2	636.50	1/2	939.28	1/2	1,242.07	1/2	1,544.85	1/2	1,847.63	1/2	2,150.42	1/2	2,453.23	1/2	2,756.59	1/2	3,059.95	1/2	3,309.39	1/2		1/2		1/2	
3/4	46.03	3/4	344.52	3/4	642.80	3/4	945.59	3/4	1,248.37	3/4	1,551.16	3/4	1,853.94	3/4	2,156.73	3/4	2,459.55	3/4	2,762.91	3/4	3,066.27	3/4	3,311.59	3/4		3/4		3/4	
2	51.58	2	350.86	2	649.11	2	951.90	2	1,254.68	2	1,557.47	2	1,860.25	2	2,163.03	2	2,465.87	2	2,769.23	2	3,072.59	2	3,313.79	2		2		2	
1/4	57.29	1/4	357.20	1/4	655.42	1/4	958.20	1/4	1,260.99	1/4	1,563.77	1/4	1,866.56	1/4	2,169.34	1/4	2,472.19	1/4	2,775.55	1/4	3,078.91	1/4	3,315.35	1/4		1/4		1/4	
1/2	63.00	1/2	363.54	1/2	661.73	1/2	964.51	1/2	1,267.30	1/2	1,570.08	1/2	1,872.87	1/2	2,175.65	1/2	2,478.51	1/2	2,781.87	1/2	3,085.23	1/2	3,316.91	1/2		1/2		1/2	
3/4	68.71	3/4	369.88	3/4	668.04	3/4	970.82	3/4	1,273.61	3/4	1,576.39	3/4	1,879.17	3/4	2,181.96	3/4	2,484.83	3/4	2,788.19	3/4	3,091.55	3/4	3,318.47	3/4		3/4		3/4	
3	74.42	3	376.22	3	674.34	3	977.13	3	1,279.91	3	1,582.70	3	1,885.48	3	2,188.27	3	2,491.15	3	2,794.51	3	3,097.87	3	3,320.04	3		3		3	
1/4	80.13	1/4	382.56	1/4	680.65	1/4	983.44	1/4	1,286.22	1/4	1,589.01	1/4	1,891.79	1/4	2,194.57	1/4	2,497.47	1/4	2,800.83	1/4	3,104.19	1/4	3,320.97	1/4		1/4		1/4	
1/2	85.84	1/2	388.90	1/2	686.96	1/2	989.74	1/2	1,292.53	1/2	1,595.31	1/2	1,898.10	1/2	2,200.88	1/2	2,503.79	1/2	2,807.15	1/2	3,110.51	1/2	3,321.90	1/2		1/2		1/2	
3/4	91.55	3/4	395.24	3/4	693.27	3/4	996.05	3/4	1,298.84	3/4	1,601.62	3/4	1,904.41	3/4	2,207.19	3/4	2,510.11	3/4	2,813.47	3/4	3,116.83	3/4	3,322.83	3/4		3/4		3/4	
4	97.26	4	401.58	4	699.58	4	1,002.36	4	1,305.15	4	1,607.93	4	1,910.71	4	2,213.50	4	2,516.43	4	2,819.79	4	3,123.15	4	3,323.76	4		4		4	
1/4	103.60	1/4	407.29	1/4	705.88	1/4	1,008.67	1/4	1,311.45	1/4	1,614.24	1/4	1,917.02	1/4	2,219.81	1/4	2,522.75	1/4	2,826.11	1/4	3,129.47	1/4	3,324.05	1/4		1/4		1/4	
1/2	109.94	1/2	413.00	1/2	712.19	1/2	1,014.98	1/2	1,317.76	1/2	1,620.55	1/2	1,923.33	1/2	2,226.11	1/2	2,529.07	1/2	2,832.43	1/2	3,135.79	1/2	3,324.35	1/2		1/2		1/2	
3/4	116.28	3/4	418.71	3/4	718.50	3/4	1,021.29	3/4	1,324.07	3/4	1,626.85	3/4	1,929.64	3/4	2,232.42	3/4	2,535.39	3/4	2,838.75	3/4	3,142.11	3/4	3,324.65	3/4		3/4		3/4	
5	122.62	5	424.42	5	724.81	5	1,027.59	5	1,330.38	5	1,633.16	5	1,935.95	5	2,238.73	5	2,541.71	5	2,845.07	5	3,148.43	5	3,324.94	5		5		5	
1/4	128.96	1/4	430.13	1/4	731.12	1/4	1,033.90	1/4	1,336.69	1/4	1,639.47	1/4	1,942.25	1/4	2,245.04	1/4	2,548.03	1/4	2,851.39	1/4	3,154.75	1/4	3,325.24	1/4		1/4		1/4	
1/2	135.30	1/2	435.84	1/2	737.42	1/2	1,040.21	1/2	1,342.99	1/2	1,645.78	1/2	1,948.56	1/2	2,251.35	1/2	2,554.35	1/2	2,857.71	1/2	3,161.07	1/2	3,325.54	1/2		1/2		1/2	
3/4	141.64	3/4	441.55	3/4	743.73	3/4	1,046.52	3/4	1,349.30	3/4	1,652.09	3/4	1,954.87	3/4	2,257.65	3/4	2,560.67	3/4	2,864.03	3/4	3,167.39	3/4	3,325.84	3/4		3/4		3/4	
6	147.98	6	447.26	6	750.04	6	1,052.83	6	1,355.61	6	1,658.39	6	1,961.18	6	2,263.96	6	2,566.99	6	2,870.35	6	3,173.71	6	3,326.14	6		6		6	
1/4	154.32	1/4	453.56	1/4	756.35	1/4	1,059.13	1/4	1,361.92	1/4	1,664.70	1/4	1,967.49	1/4	2,270.27	1/4	2,573.31	1/4	2,876.67	1/4	3,180.03	1/4	3,326.44	1/4		1/4		1/4	
1/2	160.66	1/2	459.87	1/2	762.66	1/2	1,065.44	1/2	1,368.23	1/2	1,671.01	1/2	1,973.79	1/2	2,276.58	1/2	2,579.63	1/2	2,882.99	1/2	3,186.35	1/2	3,326.74	1/2		1/2		1/2	
3/4	167.00	3/4	466.18	3/4	768.96	3/4	1,071.75	3/4	1,374.53	3/4	1,677.32	3/4	1,980.10	3/4	2,282.89	3/4	2,585.95	3/4	2,889.31	3/4	3,192.67	3/4	3,327.04	3/4		3/4		3/4	
7	173.34	7	472.49	7	775.27	7	1,078.06	7	1,380.84	7	1,683.63	7	1,986.41	7	2,289.19	7	2,592.27	7	2,895.63	7	3,198.99	7	3,327.34	7		7		7	
1/4	179.68	1/4	478.80	1/4	781.58	1/4	1,084.37	1/4	1,387.15	1/4	1,689.93	1/4	1,992.72	1/4	2,295.50	1/4	2,598.59	1/4	2,901.95	1/4	3,204.99	1/4	3,327.64	1/4		1/4		1/4	
1/2	186.02	1/2	485.10	1/2	787.89	1/2	1,090.67	1/2	1,393.46	1/2	1,696.24	1/2	1,999.03	1/2	2,301.81	1/2	2,604.91	1/2	2,908.27	1/2	3,210.99	1/2	3,327.94	1/2		1/2		1/2	
3/4	192.36	3/4	491.41	3/4	794.20	3/4	1,096.98	3/4	1,399.77	3/4	1,702.55	3/4	2,005.33	3/4	2,308.12	3/4	2,611.23	3/4	2,914.59	3/4	3,216.99	3/4	3,328.24	3/4		3/4		3/4	
8	198.70	8	497.72	8	800.50	8	1,103.29	8	1,406.07	8	1,708.86	8	2,011.64	8	2,314.43	8	2,617.55	8	2,920.91	8	3,222.99	8	3,328.54	8		8		8	
1/4	205.04	1/4	504.03	1/4	806.81	1/4	1,109.60	1/4	1,412.38	1/4	1,715.17	1/4	2,017.95	1/4	2,320.73	1/4	2,623.87	1/4	2,927.23	1/4	3,228.36	1/4	3,328.84	1/4		1/4		1/4	
1/2	211.38	1/2	510.34	1/2	813.12	1/2	1,115.91	1/2	1,418.69	1/2	1,721.47	1/2	2,024.26	1/2	2,327.04	1/2	2,630.19	1/2	2,933.55	1/2	3,233.73	1/2	3,329.14	1/2		1/2		1/2	
3/4	217.72	3/4	516.64	3/4	819.43	3/4	1,122.21	3/4	1,425.00	3/4	1,727.78	3/4	2,030.57	3/4	2,333.35	3/4	2,636.51	3/4	2,939.87	3/4	3,239.09	3/4	3,329.44	3/4		3/4		3/4	
9	224.06	9	522.95	9	825.74	9	1,128.52	9	1,431.31	9	1,734.09	9	2,036.87	9	2,339.66	9	2,642.83	9	2,946.19	9	3,244.46	9	3,329.74	9		9		9	
1/4	230.40	1/4	529.26	1/4	832.04	1/4	1,134.83	1/4	1,437.61	1/4	1,740.40	1/4	2,043.18	1/4	2,345.97	1/4	2,649.15	1/4	2,952.51	1/4	3,249.20	1/4	3,330.04	1/4		1/4		1/4	
1/2	236.74	1/2	535.57	1/2	838.35	1/2	1,141.14	1/2	1,443.92	1/2	1,746.71	1/2	2,049.49	1/2	2,352.27	1/2	2,655.47	1/2	2,958.83	1/2	3,253.93	1/2	3,330.34	1/2		1/2		1/2	
3/4	243.08	3/4	541.88	3/4	844.66	3/4	1,147.45	3/4	1,450.23	3/4	1,753.01	3/4	2,055.80	3/4	2,358.58	3/4	2,661.79	3/4	2,965.15	3/4	3,258.67	3/4	3,330.64	3/4		3/4		3/4	
10	249.42	10	548.18	10	850.97	10	1,153.75	10	1,456.54	10	1,759.32	10	2,062.11	10	2,364.89	10	2,668.11	10	2,971.47	10	3,263.40	10	3,330.94	10		10		10	
1/4	255.76	1/4	554.49	1/4	857.28	1/																							



# BARGE "MM 31 B" MAGNOLIA MARINE

## OUTAGE TABLE

# 1 PORT

BARGE SHOULD BE ON EVEN-LEVEL KEEL WHEN GAUGES ARE TAKEN

HULL NO. 4591

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.		10 FT.		11 FT.		12 FT.		13 FT.		14 FT.	
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0		0	3,029.11	0	2,763.76	0	2,483.77	0	2,203.60	0	1,922.70	0	1,641.81	0	1,360.91	0	1,080.02	0	799.12	0	518.22	0	241.98	0		0			
1/4		1/4	3,025.32	1/4	2,757.93	1/4	2,477.94	1/4	2,197.75	1/4	1,916.85	1/4	1,635.96	1/4	1,355.06	1/4	1,074.16	1/4	793.27	1/4	512.37	1/4	236.13	1/4		1/4			
1/2		1/2	3,021.54	1/2	2,752.09	1/2	2,472.11	1/2	2,191.90	1/2	1,911.00	1/2	1,630.10	1/2	1,349.21	1/2	1,068.31	1/2	787.42	1/2	506.52	1/2	230.28	1/2		1/2			
3/4		3/4	3,017.17	3/4	2,746.26	3/4	2,466.28	3/4	2,186.04	3/4	1,905.15	3/4	1,624.25	3/4	1,343.36	3/4	1,062.46	3/4	781.56	3/4	500.67	3/4	224.43	3/4		3/4			
1		1	3,012.80	1	2,740.43	1	2,460.44	1	2,180.19	1	1,899.30	1	1,618.40	1	1,337.50	1	1,056.61	1	775.71	1	494.82	1	218.58	1		1			
1/4		1/4	3,008.43	1/4	2,734.59	1/4	2,454.61	1/4	2,174.34	1/4	1,893.44	1/4	1,612.55	1/4	1,331.65	1/4	1,050.76	1/4	769.86	1/4	488.96	1/4	212.72	1/4		1/4			
1/2		1/2	3,004.06	1/2	2,728.76	1/2	2,448.78	1/2	2,168.49	1/2	1,887.59	1/2	1,606.70	1/2	1,325.80	1/2	1,044.90	1/2	764.01	1/2	483.11	1/2	206.87	1/2		1/2			
3/4		3/4	2,999.10	3/4	2,722.93	3/4	2,442.94	3/4	2,162.64	3/4	1,881.74	3/4	1,600.84	3/4	1,319.95	3/4	1,039.05	3/4	758.16	3/4	477.26	3/4	201.02	3/4		3/4			
2		2	2,994.15	2	2,717.10	2	2,437.11	2	2,156.78	2	1,875.89	2	1,594.99	2	1,314.10	2	1,033.20	2	752.30	2	471.41	2	195.17	2		2			
1/4		1/4	2,989.20	1/4	2,711.26	1/4	2,431.28	1/4	2,150.93	1/4	1,870.04	1/4	1,589.14	1/4	1,308.24	1/4	1,027.35	1/4	746.45	1/4	465.56	1/4	189.32	1/4		1/4			
1/2		1/2	2,984.24	1/2	2,705.43	1/2	2,425.44	1/2	2,145.08	1/2	1,864.18	1/2	1,583.29	1/2	1,302.39	1/2	1,021.50	1/2	740.60	1/2	459.70	1/2	183.46	1/2		1/2			
3/4		3/4	2,978.70	3/4	2,699.60	3/4	2,419.61	3/4	2,139.23	3/4	1,858.33	3/4	1,577.44	3/4	1,296.54	3/4	1,015.64	3/4	734.75	3/4	453.85	3/4	177.61	3/4		3/4			
3		3	2,973.16	3	2,693.76	3	2,413.78	3	2,133.38	3	1,852.48	3	1,571.58	3	1,290.69	3	1,009.79	3	728.90	3	448.00	3	171.76	3		3			
1/4		1/4	2,967.62	1/4	2,687.93	1/4	2,407.95	1/4	2,127.52	1/4	1,846.63	1/4	1,565.73	1/4	1,284.84	1/4	1,003.94	1/4	723.04	1/4	442.15	1/4	165.91	1/4		1/4			
1/2		1/2	2,962.08	1/2	2,682.10	1/2	2,402.11	1/2	2,121.67	1/2	1,840.78	1/2	1,559.88	1/2	1,278.98	1/2	998.09	1/2	717.19	1/2	436.30	1/2	160.06	1/2		1/2			
3/4		3/4	2,956.25	3/4	2,676.26	3/4	2,396.28	3/4	2,115.82	3/4	1,834.92	3/4	1,554.03	3/4	1,273.13	3/4	992.24	3/4	711.34	3/4	430.44	3/4	154.20	3/4		3/4			
4		4	2,950.42	4	2,670.43	4	2,390.45	4	2,109.97	4	1,829.07	4	1,548.18	4	1,267.28	4	986.38	4	705.49	4	424.59	4	148.35	4		4			
1/4		1/4	2,944.58	1/4	2,664.60	1/4	2,384.61	1/4	2,104.12	1/4	1,823.22	1/4	1,542.32	1/4	1,261.43	1/4	980.53	1/4	699.64	1/4	418.74	1/4	142.50	1/4		1/4			
1/2		1/2	2,938.75	1/2	2,658.76	1/2	2,378.78	1/2	2,098.26	1/2	1,817.37	1/2	1,536.47	1/2	1,255.58	1/2	974.68	1/2	693.78	1/2	412.89	1/2	136.65	1/2		1/2			
3/4		3/4	2,932.92	3/4	2,652.93	3/4	2,372.95	3/4	2,092.41	3/4	1,811.52	3/4	1,530.62	3/4	1,249.72	3/4	968.83	3/4	687.93	3/4	407.62	3/4	130.80	3/4		3/4			
5		5	2,927.08	5	2,647.10	5	2,367.11	5	2,086.56	5	1,805.66	5	1,524.77	5	1,243.87	5	962.98	5	682.08	5	402.35	5	124.94	5		5			
1/4		1/4	2,921.25	1/4	2,641.27	1/4	2,361.28	1/4	2,080.71	1/4	1,799.81	1/4	1,518.92	1/4	1,238.02	1/4	957.12	1/4	676.23	1/4	397.08	1/4	119.09	1/4		1/4			
1/2	3,078.34	1/2	2,915.42	1/2	2,635.43	1/2	2,355.45	1/2	2,074.86	1/2	1,793.96	1/2	1,513.06	1/2	1,232.17	1/2	951.27	1/2	670.38	1/2	391.81	1/2	113.24	1/2		1/2			
3/4	3,078.06	3/4	2,909.58	3/4	2,629.60	3/4	2,349.62	3/4	2,069.00	3/4	1,788.11	3/4	1,507.21	3/4	1,226.32	3/4	945.42	3/4	664.52	3/4	386.54	3/4	107.39	3/4		3/4			
6	3,077.79	6	2,903.75	6	2,623.77	6	2,343.78	6	2,063.15	6	1,782.26	6	1,501.36	6	1,220.46	6	939.57	6	658.67	6	381.27	6	101.54	6		6			
1/4	3,077.52	1/4	2,897.92	1/4	2,617.93	1/4	2,337.95	1/4	2,057.30	1/4	1,776.40	1/4	1,495.51	1/4	1,214.61	1/4	933.72	1/4	652.82	1/4	376.00	1/4	95.68	1/4		1/4			
1/2	3,077.25	1/2	2,892.09	1/2	2,612.10	1/2	2,332.12	1/2	2,051.45	1/2	1,770.55	1/2	1,489.66	1/2	1,208.76	1/2	927.86	1/2	646.97	1/2	370.73	1/2	89.83	1/2		1/2			
3/4	3,076.39	3/4	2,886.25	3/4	2,606.27	3/4	2,326.28	3/4	2,045.60	3/4	1,764.70	3/4	1,483.80	3/4	1,202.91	3/4	922.01	3/4	641.12	3/4	364.88	3/4	84.56	3/4		3/4			
7	3,075.53	7	2,880.42	7	2,600.43	7	2,320.45	7	2,039.74	7	1,758.85	7	1,477.95	7	1,197.06	7	916.16	7	635.26	7	359.02	7	79.29	7		7			
1/4	3,074.67	1/4	2,874.59	1/4	2,594.60	1/4	2,314.62	1/4	2,033.89	1/4	1,753.00	1/4	1,472.10	1/4	1,191.20	1/4	910.31	1/4	629.41	1/4	353.17	1/4	74.02	1/4		1/4			
1/2	3,073.81	1/2	2,868.75	1/2	2,588.77	1/2	2,308.78	1/2	2,028.04	1/2	1,747.14	1/2	1,466.25	1/2	1,185.35	1/2	904.46	1/2	623.56	1/2	347.32	1/2	68.75	1/2		1/2			
3/4	3,072.37	3/4	2,862.92	3/4	2,582.94	3/4	2,302.95	3/4	2,022.19	3/4	1,741.29	3/4	1,460.40	3/4	1,179.50	3/4	898.60	3/4	617.71	3/4	341.47	3/4	63.48	3/4		3/4			
8	3,070.93	8	2,857.09	8	2,577.10	8	2,297.12	8	2,016.34	8	1,735.44	8	1,454.54	8	1,173.65	8	892.75	8	611.86	8	335.62	8	58.21	8		8			
1/4	3,069.48	1/4	2,851.25	1/4	2,571.27	1/4	2,291.29	1/4	2,010.48	1/4	1,729.59	1/4	1,448.69	1/4	1,167.80	1/4	886.90	1/4	606.00	1/4	329.76	1/4	52.94	1/4		1/4			
1/2	3,068.04	1/2	2,845.42	1/2	2,565.44	1/2	2,285.45	1/2	2,004.63	1/2	1,723.74	1/2	1,442.84	1/2	1,161.94	1/2	881.05	1/2	600.15	1/2	323.91	1/2	47.67	1/2		1/2			
3/4	3,066.01	3/4	2,839.59	3/4	2,559.60	3/4	2,279.62	3/4	1,998.78	3/4	1,717.88	3/4	1,436.99	3/4	1,156.09	3/4	875.20	3/4	594.30	3/4	318.06	3/4	42.55	3/4		3/4			
9	3,063.99	9	2,833.76	9	2,553.77	9	2,273.79	9	1,992.93	9	1,712.03	9	1,431.14	9	1,150.24	9	869.34	9	588.45	9	312.21	9	37.43	9		9			
1/4	3,061.96	1/4	2,827.92	1/4	2,547.94	1/4	2,267.95	1/4	1,987.08	1/4	1,706.18	1/4	1,425.28	1/4	1,144.39	1/4	863.49	1/4	582.60	1/4	306.36	1/4	32.31	1/4		1/4			
1/2	3,059.93	1/2	2,822.09	1/2	2,542.10	1/2	2,262.12	1/2	1,981.22	1/2	1,700.33	1/2	1,419.43	1/2	1,138.54	1/2	857.64	1/2	576.74	1/2	300.50	1/2	27.19	1/2		1/2			
3/4	3,057.32	3/4	2,816.26	3/4	2,536.27	3/4	2,256.27	3/4	1,975.37	3/4	1,694.48	3/4	1,413.58	3/4	1,132.68	3/4	851.79	3/4	570.89	3/4	294.65	3/4	23.54	3/4		3/4			
10	3,054.70	10	2,810.42	10	2,530.44	10	2,250.42	10	1,969.52	10	1,688.62	10	1,407.73	10	1,126.83	10	845.94	10	565.04	10	288.80	10	19.88	10		10			
1/4	3,052.09	1/4	2,804.59	1/4	2,524.61	1/4	2,244.56	1/4	1,963.67	1/4	1,682.77	1/4	1,401.88	1/4	1,120.98	1/4	840.08	1/4	559.19	1/4	282.95	1/4	16.22	1/4		1/4			
1/2	3,049.47	1/2	2,798.76	1/2	2,518.77	1/2	2,238.71	1/2	1,957.82	1/2	1,676.92	1/2	1,396.02	1/2	1,115.13	1/2													



# BARGE "MM 31 B" MAGNOLIA MARINE

## OUTAGE TABLE

# 1 STAR

BARGE SHOULD BE ON EVEN-LEVEL KEEL WHEN GAUGES ARE TAKEN

HULL NO. 4591

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.		10 FT.		11 FT.		12 FT.		13 FT.		14 FT.	
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0		0	3,025.32	0	2,757.93	0	2,477.94	0	2,197.75	0	1,916.85	0	1,635.96	0	1,355.06	0	1,074.16	0	793.27	0	512.37	0	236.13	0		0			
1/4		1/4	3,021.54	1/4	2,752.09	1/4	2,472.11	1/4	2,191.90	1/4	1,911.00	1/4	1,630.10	1/4	1,349.21	1/4	1,068.31	1/4	787.42	1/4	506.52	1/4	230.28	1/4		1/4			
1/2		1/2	3,017.17	1/2	2,746.26	1/2	2,466.28	1/2	2,186.04	1/2	1,905.15	1/2	1,624.25	1/2	1,343.36	1/2	1,062.46	1/2	781.56	1/2	500.67	1/2	224.43	1/2		1/2			
3/4		3/4	3,012.80	3/4	2,740.43	3/4	2,460.44	3/4	2,180.19	3/4	1,899.30	3/4	1,618.40	3/4	1,337.50	3/4	1,056.61	3/4	775.71	3/4	494.82	3/4	218.58	3/4		3/4			
1		1	3,008.43	1	2,734.59	1	2,454.61	1	2,174.34	1	1,893.44	1	1,612.55	1	1,331.65	1	1,050.76	1	769.86	1	488.96	1	212.72	1		1			
1/4		1/4	3,004.06	1/4	2,728.76	1/4	2,448.78	1/4	2,168.49	1/4	1,887.59	1/4	1,606.70	1/4	1,325.80	1/4	1,044.90	1/4	764.01	1/4	483.11	1/4	206.87	1/4		1/4			
1/2		1/2	2,999.10	1/2	2,722.93	1/2	2,442.94	1/2	2,162.64	1/2	1,881.74	1/2	1,600.84	1/2	1,319.95	1/2	1,039.05	1/2	758.16	1/2	477.26	1/2	201.02	1/2		1/2			
3/4		3/4	2,994.15	3/4	2,717.10	3/4	2,437.11	3/4	2,156.78	3/4	1,875.89	3/4	1,594.99	3/4	1,314.10	3/4	1,033.20	3/4	752.30	3/4	471.41	3/4	195.17	3/4		3/4			
2		2	2,989.20	2	2,711.26	2	2,431.28	2	2,150.93	2	1,870.04	2	1,589.14	2	1,308.24	2	1,027.35	2	746.45	2	465.56	2	189.32	2		2			
1/4		1/4	2,984.24	1/4	2,705.43	1/4	2,425.44	1/4	2,145.08	1/4	1,864.18	1/4	1,583.29	1/4	1,302.39	1/4	1,021.50	1/4	740.60	1/4	459.70	1/4	183.46	1/4		1/4			
1/2		1/2	2,978.70	1/2	2,699.60	1/2	2,419.61	1/2	2,139.23	1/2	1,858.33	1/2	1,577.44	1/2	1,296.54	1/2	1,015.64	1/2	734.75	1/2	453.85	1/2	177.61	1/2		1/2			
3/4		3/4	2,973.16	3/4	2,693.76	3/4	2,413.78	3/4	2,133.38	3/4	1,852.48	3/4	1,571.58	3/4	1,290.69	3/4	1,009.79	3/4	728.90	3/4	448.00	3/4	171.76	3/4		3/4			
3		3	2,967.62	3	2,687.93	3	2,407.95	3	2,127.52	3	1,846.63	3	1,565.73	3	1,284.84	3	1,003.94	3	723.04	3	442.15	3	165.91	3		3			
1/4		1/4	2,962.08	1/4	2,682.10	1/4	2,402.11	1/4	2,121.67	1/4	1,840.78	1/4	1,559.88	1/4	1,278.98	1/4	998.09	1/4	717.19	1/4	436.30	1/4	160.06	1/4		1/4			
1/2		1/2	2,956.25	1/2	2,676.26	1/2	2,396.28	1/2	2,115.82	1/2	1,834.92	1/2	1,554.03	1/2	1,273.13	1/2	992.24	1/2	711.34	1/2	430.44	1/2	154.20	1/2		1/2			
3/4		3/4	2,950.42	3/4	2,670.43	3/4	2,390.45	3/4	2,109.97	3/4	1,829.07	3/4	1,548.18	3/4	1,267.28	3/4	986.38	3/4	705.49	3/4	424.59	3/4	148.35	3/4		3/4			
4		4	2,944.58	4	2,664.60	4	2,384.61	4	2,104.12	4	1,823.22	4	1,542.32	4	1,261.43	4	980.53	4	699.64	4	418.74	4	142.50	4		4			
1/4		1/4	2,938.75	1/4	2,658.76	1/4	2,378.78	1/4	2,098.26	1/4	1,817.37	1/4	1,536.47	1/4	1,255.58	1/4	974.68	1/4	693.78	1/4	412.89	1/4	136.65	1/4		1/4			
1/2		1/2	2,932.92	1/2	2,652.93	1/2	2,372.95	1/2	2,092.41	1/2	1,811.52	1/2	1,530.62	1/2	1,249.72	1/2	968.83	1/2	687.93	1/2	407.62	1/2	130.80	1/2		1/2			
3/4		3/4	2,927.08	3/4	2,647.10	3/4	2,367.11	3/4	2,086.56	3/4	1,805.66	3/4	1,524.77	3/4	1,243.87	3/4	962.98	3/4	682.08	3/4	402.35	3/4	124.94	3/4		3/4			
5		5	2,921.25	5	2,641.27	5	2,361.28	5	2,080.71	5	1,799.81	5	1,518.92	5	1,238.02	5	957.12	5	676.23	5	397.08	5	119.09	5		5			
1/4	3,078.34	1/4	2,915.42	1/4	2,635.43	1/4	2,355.45	1/4	2,074.86	1/4	1,793.96	1/4	1,513.06	1/4	1,232.17	1/4	951.27	1/4	670.38	1/4	391.81	1/4	113.24	1/4		1/4			
1/2	3,078.06	1/2	2,909.58	1/2	2,629.60	1/2	2,349.62	1/2	2,069.00	1/2	1,788.11	1/2	1,507.21	1/2	1,226.32	1/2	945.42	1/2	664.52	1/2	386.54	1/2	107.39	1/2		1/2			
3/4	3,077.79	3/4	2,903.75	3/4	2,623.77	3/4	2,343.78	3/4	2,063.15	3/4	1,782.26	3/4	1,501.36	3/4	1,220.46	3/4	939.57	3/4	658.67	3/4	381.27	3/4	101.54	3/4		3/4			
6		6	2,897.92	6	2,617.93	6	2,337.95	6	2,057.30	6	1,776.40	6	1,495.51	6	1,214.61	6	933.72	6	652.82	6	376.00	6	95.68	6		6			
1/4	3,077.25	1/4	2,892.09	1/4	2,612.10	1/4	2,332.12	1/4	2,051.45	1/4	1,770.55	1/4	1,489.66	1/4	1,208.76	1/4	927.86	1/4	646.97	1/4	370.73	1/4	89.83	1/4		1/4			
1/2	3,076.39	1/2	2,886.25	1/2	2,606.27	1/2	2,326.28	1/2	2,045.60	1/2	1,764.70	1/2	1,483.80	1/2	1,202.91	1/2	922.01	1/2	641.12	1/2	364.88	1/2	84.56	1/2		1/2			
3/4	3,075.53	3/4	2,880.42	3/4	2,600.43	3/4	2,320.45	3/4	2,039.74	3/4	1,758.85	3/4	1,477.95	3/4	1,197.06	3/4	916.16	3/4	635.26	3/4	359.02	3/4	79.29	3/4		3/4			
7		7	2,874.59	7	2,594.60	7	2,314.62	7	2,033.89	7	1,753.00	7	1,472.10	7	1,191.20	7	910.31	7	629.41	7	353.17	7	74.02	7		7			
1/4	3,073.81	1/4	2,868.75	1/4	2,588.77	1/4	2,308.78	1/4	2,028.04	1/4	1,747.14	1/4	1,466.25	1/4	1,185.35	1/4	904.46	1/4	623.56	1/4	347.32	1/4	68.75	1/4		1/4			
1/2	3,072.37	1/2	2,862.92	1/2	2,582.94	1/2	2,302.95	1/2	2,022.19	1/2	1,741.29	1/2	1,460.40	1/2	1,179.50	1/2	898.60	1/2	617.71	1/2	341.47	1/2	63.48	1/2		1/2			
3/4	3,070.93	3/4	2,857.09	3/4	2,577.10	3/4	2,297.12	3/4	2,016.34	3/4	1,735.44	3/4	1,454.54	3/4	1,173.65	3/4	892.75	3/4	611.86	3/4	335.62	3/4	58.21	3/4		3/4			
8		8	2,851.25	8	2,571.27	8	2,291.29	8	2,010.48	8	1,729.59	8	1,448.69	8	1,167.80	8	886.90	8	606.00	8	329.76	8	52.94	8		8			
1/4	3,068.04	1/4	2,845.42	1/4	2,565.44	1/4	2,285.45	1/4	2,004.63	1/4	1,723.74	1/4	1,442.84	1/4	1,161.94	1/4	881.05	1/4	600.15	1/4	323.91	1/4	47.67	1/4		1/4			
1/2	3,066.01	1/2	2,839.59	1/2	2,559.60	1/2	2,279.62	1/2	1,998.78	1/2	1,717.88	1/2	1,436.99	1/2	1,156.09	1/2	875.20	1/2	594.30	1/2	318.06	1/2	42.55	1/2		1/2			
3/4	3,063.99	3/4	2,833.76	3/4	2,553.77	3/4	2,273.79	3/4	1,992.93	3/4	1,712.03	3/4	1,431.14	3/4	1,150.24	3/4	869.34	3/4	588.45	3/4	312.21	3/4	37.43	3/4		3/4			
9		9	2,827.92	9	2,547.94	9	2,267.95	9	1,987.08	9	1,706.18	9	1,425.28	9	1,144.39	9	863.49	9	582.60	9	306.36	9	32.31	9		9			
1/4	3,059.93	1/4	2,822.09	1/4	2,542.10	1/4	2,262.12	1/4	1,981.22	1/4	1,700.33	1/4	1,419.43	1/4	1,138.54	1/4	857.64	1/4	576.74	1/4	300.50	1/4	27.19	1/4		1/4			
1/2	3,057.32	1/2	2,816.26	1/2	2,536.27	1/2	2,256.27	1/2	1,975.37	1/2	1,694.48	1/2	1,413.58	1/2	1,132.68	1/2	851.79	1/2	570.89	1/2	294.65	1/2	23.54	1/2		1/2			
3/4	3,054.70	3/4	2,810.42	3/4	2,530.44	3/4	2,250.42	3/4	1,969.52	3/4	1,688.62	3/4	1,407.73	3/4	1,126.83	3/4	845.94	3/4	565.04	3/4	288.80	3/4	19.88	3/4		3/4			
10		10	2,804.59	10	2,524.61	10	2,244.56	10	1,963.67	10	1,682.77	10	1,401.88	10	1,120.98	10	840.08	10	559.19	10	282.95	10	16.22	10		10			
1/4	3,049.47	1/4	2,798.76	1/4	2,518.77	1/4	2,238.71	1/4	1,957.82	1/4	1,676.92	1/4	1,396.02	1/4	1,115.13	1/4	834.23	1/4	553.34	1/4	277.10	1/4	12.56	1/4		1/4			
1/2	3,046.27	1/2	2,792.92	1/2	2,512.94	1/2	2,232.86	1/2	1,951.96	1/2	1,671.07	1/2	1,390.17	1/2	1,109.28	1/2	828.38	1/2	547.48	1/2	271.24								



# BARGE "MM 31 B" MAGNOLIA MARINE

## OUTAGE TABLE

## 2 PORT

BARGE SHOULD BE ON EVEN-LEVEL KEEL WHEN GAUGES ARE TAKEN

HULL NO. 4591

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.		10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	
0	0	3,273.51	0	2,981.58	0	2,678.22	0	2,374.62	0	2,070.30	0	1,765.98	0	1,461.66	0	1,157.34	0	853.02	0	548.70	0	249.42	0		0		0		0	
1/4	1/4	3,268.78	1/4	2,975.26	1/4	2,671.90	1/4	2,368.28	1/4	2,063.96	1/4	1,759.64	1/4	1,455.32	1/4	1,151.00	1/4	846.68	1/4	542.36	1/4	243.08	1/4		1/4		1/4		1/4	
1/2	1/2	3,264.04	1/2	2,968.94	1/2	2,665.58	1/2	2,361.94	1/2	2,057.62	1/2	1,753.30	1/2	1,448.98	1/2	1,144.66	1/2	840.34	1/2	536.02	1/2	236.74	1/2		1/2		1/2		1/2	
3/4	3/4	3,259.31	3/4	2,962.62	3/4	2,659.26	3/4	2,355.60	3/4	2,051.28	3/4	1,746.96	3/4	1,442.64	3/4	1,138.32	3/4	834.00	3/4	529.68	3/4	230.40	3/4		3/4		3/4		3/4	
1	1	3,254.57	1	2,956.30	1	2,652.94	1	2,349.26	1	2,044.94	1	1,740.62	1	1,436.30	1	1,131.98	1	827.66	1	523.34	1	224.06	1		1		1		1	
1/4	1/4	3,249.21	1/4	2,949.98	1/4	2,646.62	1/4	2,342.92	1/4	2,038.60	1/4	1,734.28	1/4	1,429.96	1/4	1,125.64	1/4	821.32	1/4	517.00	1/4	217.72	1/4		1/4		1/4		1/4	
1/2	1/2	3,243.84	1/2	2,943.66	1/2	2,640.30	1/2	2,336.58	1/2	2,032.26	1/2	1,727.94	1/2	1,423.62	1/2	1,119.30	1/2	814.98	1/2	510.66	1/2	211.38	1/2		1/2		1/2		1/2	
3/4	3/4	3,238.47	3/4	2,937.34	3/4	2,633.98	3/4	2,330.24	3/4	2,025.92	3/4	1,721.60	3/4	1,417.28	3/4	1,112.96	3/4	808.64	3/4	504.32	3/4	205.04	3/4		3/4		3/4		3/4	
2	2	3,233.11	2	2,931.02	2	2,627.66	2	2,323.90	2	2,019.58	2	1,715.26	2	1,410.94	2	1,106.62	2	802.30	2	497.98	2	198.70	2		2		2		2	
1/4	1/4	3,227.10	1/4	2,924.70	1/4	2,621.34	1/4	2,317.56	1/4	2,013.24	1/4	1,708.92	1/4	1,404.60	1/4	1,100.28	1/4	795.96	1/4	491.64	1/4	192.36	1/4		1/4		1/4		1/4	
1/2	1/2	3,221.10	1/2	2,918.38	1/2	2,615.02	1/2	2,311.22	1/2	2,006.90	1/2	1,702.58	1/2	1,398.26	1/2	1,093.94	1/2	789.62	1/2	485.30	1/2	186.02	1/2		1/2		1/2		1/2	
3/4	3/4	3,215.10	3/4	2,912.06	3/4	2,608.70	3/4	2,304.88	3/4	2,000.56	3/4	1,696.24	3/4	1,391.92	3/4	1,087.60	3/4	783.28	3/4	478.96	3/4	179.68	3/4		3/4		3/4		3/4	
3	3	3,209.10	3	2,905.74	3	2,602.38	3	2,298.54	3	1,994.22	3	1,689.90	3	1,385.58	3	1,081.26	3	776.94	3	472.62	3	173.34	3		3		3		3	
1/4	1/4	3,202.78	1/4	2,899.42	1/4	2,596.06	1/4	2,292.20	1/4	1,987.88	1/4	1,683.56	1/4	1,379.24	1/4	1,074.92	1/4	770.60	1/4	466.28	1/4	167.00	1/4		1/4		1/4		1/4	
1/2	1/2	3,196.46	1/2	2,893.10	1/2	2,589.74	1/2	2,285.86	1/2	1,981.54	1/2	1,677.22	1/2	1,372.90	1/2	1,068.58	1/2	764.26	1/2	459.94	1/2	160.66	1/2		1/2		1/2		1/2	
3/4	3/4	3,190.14	3/4	2,886.78	3/4	2,583.42	3/4	2,279.52	3/4	1,975.20	3/4	1,670.88	3/4	1,366.56	3/4	1,062.24	3/4	757.92	3/4	453.60	3/4	154.32	3/4		3/4		3/4		3/4	
4	4	3,183.82	4	2,880.46	4	2,577.10	4	2,273.18	4	1,968.86	4	1,664.54	4	1,360.22	4	1,055.90	4	751.58	4	447.26	4	147.98	4		4		4		4	
1/4	1/4	3,177.50	1/4	2,874.14	1/4	2,570.78	1/4	2,268.84	1/4	1,962.52	1/4	1,658.20	1/4	1,353.88	1/4	1,049.56	1/4	745.24	1/4	441.55	1/4	141.64	1/4		1/4		1/4		1/4	
1/2	1/2	3,171.18	1/2	2,867.82	1/2	2,564.46	1/2	2,260.50	1/2	1,956.18	1/2	1,651.86	1/2	1,347.54	1/2	1,043.22	1/2	738.90	1/2	435.84	1/2	135.30	1/2		1/2		1/2		1/2	
3/4	3/4	3,164.86	3/4	2,861.50	3/4	2,558.14	3/4	2,254.16	3/4	1,949.84	3/4	1,645.52	3/4	1,341.20	3/4	1,036.88	3/4	732.56	3/4	430.13	3/4	128.96	3/4		3/4		3/4		3/4	
5	3,335.05	5	3,158.54	5	2,855.18	5	2,551.82	5	2,247.82	5	1,943.50	5	1,639.18	5	1,334.86	5	1,030.54	5	726.22	5	424.42	5	122.62	5		5		5		5
1/4	3,334.76	1/4	3,152.22	1/4	2,848.86	1/4	2,545.50	1/4	2,241.48	1/4	1,937.16	1/4	1,632.84	1/4	1,328.52	1/4	1,024.20	1/4	719.88	1/4	418.71	1/4	116.28	1/4		1/4		1/4		1/4
1/2	3,334.46	1/2	3,145.90	1/2	2,842.54	1/2	2,539.18	1/2	2,235.14	1/2	1,930.82	1/2	1,626.50	1/2	1,322.18	1/2	1,017.86	1/2	713.54	1/2	413.00	1/2	109.94	1/2		1/2		1/2		1/2
3/4	3,334.17	3/4	3,139.58	3/4	2,836.22	3/4	2,532.86	3/4	2,228.80	3/4	1,924.48	3/4	1,620.16	3/4	1,315.84	3/4	1,011.52	3/4	707.20	3/4	407.29	3/4	103.60	3/4		3/4		3/4		3/4
6	3,333.87	6	3,133.26	6	2,829.90	6	2,526.54	6	2,222.46	6	1,918.14	6	1,613.82	6	1,309.50	6	1,005.18	6	700.86	6	401.58	6	97.26	6		6		6		6
1/4	3,332.94	1/4	3,126.94	1/4	2,823.58	1/4	2,520.22	1/4	2,216.12	1/4	1,911.80	1/4	1,607.48	1/4	1,303.16	1/4	998.84	1/4	694.52	1/4	395.24	1/4	91.55	1/4		1/4		1/4		1/4
1/2	3,332.01	1/2	3,120.62	1/2	2,817.26	1/2	2,513.90	1/2	2,209.78	1/2	1,905.46	1/2	1,601.14	1/2	1,296.82	1/2	992.50	1/2	688.18	1/2	388.90	1/2	85.84	1/2		1/2		1/2		1/2
3/4	3,331.08	3/4	3,114.30	3/4	2,810.94	3/4	2,507.58	3/4	2,203.44	3/4	1,899.12	3/4	1,594.80	3/4	1,290.48	3/4	986.16	3/4	681.84	3/4	382.56	3/4	80.13	3/4		3/4		3/4		3/4
7	3,330.15	7	3,107.98	7	2,804.62	7	2,501.26	7	2,197.10	7	1,892.78	7	1,588.46	7	1,284.14	7	979.82	7	675.50	7	376.22	7	74.42	7		7		7		7
1/4	3,328.59	1/4	3,101.66	1/4	2,798.30	1/4	2,494.94	1/4	2,190.76	1/4	1,886.44	1/4	1,582.12	1/4	1,277.80	1/4	973.48	1/4	669.16	1/4	369.88	1/4	68.71	1/4		1/4		1/4		1/4
1/2	3,327.02	1/2	3,095.34	1/2	2,791.98	1/2	2,488.62	1/2	2,184.42	1/2	1,880.10	1/2	1,575.78	1/2	1,271.46	1/2	967.14	1/2	662.82	1/2	363.54	1/2	63.00	1/2		1/2		1/2		1/2
3/4	3,325.46	3/4	3,089.02	3/4	2,785.66	3/4	2,482.30	3/4	2,178.08	3/4	1,873.76	3/4	1,569.44	3/4	1,265.12	3/4	960.80	3/4	656.48	3/4	357.20	3/4	57.29	3/4		3/4		3/4		3/4
8	3,323.90	8	3,082.70	8	2,779.34	8	2,475.98	8	2,171.74	8	1,867.42	8	1,563.10	8	1,258.78	8	954.46	8	650.14	8	350.86	8	51.58	8		8		8		8
1/4	3,321.70	1/4	3,076.38	1/4	2,773.02	1/4	2,469.66	1/4	2,165.40	1/4	1,861.08	1/4	1,556.76	1/4	1,252.44	1/4	948.12	1/4	643.80	1/4	344.52	1/4	46.03	1/4		1/4		1/4		1/4
1/2	3,319.50	1/2	3,070.06	1/2	2,766.70	1/2	2,463.34	1/2	2,159.06	1/2	1,854.74	1/2	1,550.42	1/2	1,246.10	1/2	941.78	1/2	637.46	1/2	338.18	1/2	40.48	1/2		1/2		1/2		1/2
3/4	3,317.31	3/4	3,063.74	3/4	2,760.38	3/4	2,457.02	3/4	2,152.72	3/4	1,848.40	3/4	1,544.08	3/4	1,239.76	3/4	935.44	3/4	631.12	3/4	331.84	3/4	34.94	3/4		3/4		3/4		3/4
9	3,315.11	9	3,057.42	9	2,754.06	9	2,450.70	9	2,146.38	9	1,842.06	9	1,537.74	9	1,233.42	9	929.10	9	624.78	9	325.50	9	29.39	9		9		9		9
1/4	3,312.28	1/4	3,051.10	1/4	2,747.74	1/4	2,444.36	1/4	2,140.04	1/4	1,835.72	1/4	1,531.40	1/4	1,227.08	1/4	922.76	1/4	618.44	1/4	319.16	1/4	25.43	1/4		1/4		1/4		1/4
1/2	3,309.45	1/2	3,044.78	1/2	2,741.42	1/2	2,438.02	1/2	2,133.70	1/2	1,829.38	1/2	1,525.06	1/2	1,220.74	1/2	916.42	1/2	612.10	1/2	312.82	1/2	21.46	1/2		1/2		1/2		1/2
3/4	3,306.61	3/4	3,038.46	3/4	2,735.10	3/4	2,431.68	3/4	2,127.36	3/4	1,823.04	3/4	1,518.72	3/4	1,214.40	3/4	910.08	3/4	605.76	3/4	306.48	3/4	17.50	3/4		3/4		3/4		3/4
10	3,303.78	10	3,032.14	10	2,728.78	10	2,425.34	10	2,121.02	10	1,816.70	10	1,512.38	10	1,208.06	10	903.74	10	599.42	10	300.14	10	* 13.54	10		10		10		10
1/4	3,300.31																													



# BARGE "MM 31 B" MAGNOLIA MARINE

## OUTAGE TABLE

# 2 STAR

BARGE SHOULD BE ON EVEN-LEVEL KEEL WHEN GAUGES ARE TAKEN

HULL NO. 4591

IN	0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.		10 FT.		11 FT.		12 FT.		13 FT.		14 FT.	
0	0	3,281.71	0	2,994.22	0	2,690.86	0	2,387.30	0	2,082.98	0	1,778.66	0	1,474.34	0	1,170.02	0	865.70	0	561.38	0	262.10	0		0		0		0	
1/4	1/4	3,277.61	1/4	2,987.90	1/4	2,684.54	1/4	2,380.96	1/4	2,076.64	1/4	1,772.32	1/4	1,468.00	1/4	1,163.68	1/4	859.36	1/4	555.04	1/4	255.76	1/4		1/4		1/4		1/4	
1/2	1/2	3,273.51	1/2	2,981.58	1/2	2,678.22	1/2	2,374.62	1/2	2,070.30	1/2	1,765.98	1/2	1,461.66	1/2	1,157.34	1/2	853.02	1/2	548.70	1/2	249.42	1/2		1/2		1/2		1/2	
3/4	3/4	3,268.78	3/4	2,975.26	3/4	2,671.90	3/4	2,368.28	3/4	2,063.96	3/4	1,759.64	3/4	1,455.32	3/4	1,151.00	3/4	846.68	3/4	542.36	3/4	243.08	3/4		3/4		3/4		3/4	
1	1	3,264.04	1	2,968.94	1	2,665.58	1	2,361.94	1	2,057.62	1	1,753.30	1	1,448.98	1	1,144.66	1	840.34	1	536.02	1	236.74	1		1		1		1	
1/4	1/4	3,259.31	1/4	2,962.62	1/4	2,659.26	1/4	2,355.60	1/4	2,051.28	1/4	1,746.96	1/4	1,442.64	1/4	1,138.32	1/4	834.00	1/4	529.68	1/4	230.40	1/4		1/4		1/4		1/4	
1/2	1/2	3,254.57	1/2	2,956.30	1/2	2,652.94	1/2	2,349.26	1/2	2,044.94	1/2	1,740.62	1/2	1,436.30	1/2	1,131.98	1/2	827.66	1/2	523.34	1/2	224.06	1/2		1/2		1/2		1/2	
3/4	3/4	3,249.21	3/4	2,949.98	3/4	2,646.62	3/4	2,342.92	3/4	2,038.60	3/4	1,734.28	3/4	1,429.96	3/4	1,125.64	3/4	821.32	3/4	517.00	3/4	217.72	3/4		3/4		3/4		3/4	
2	2	3,243.84	2	2,943.66	2	2,640.30	2	2,336.58	2	2,032.26	2	1,727.94	2	1,423.62	2	1,119.30	2	814.98	2	510.66	2	211.38	2		2		2		2	
1/4	1/4	3,238.47	1/4	2,937.34	1/4	2,633.98	1/4	2,330.24	1/4	2,025.92	1/4	1,721.60	1/4	1,417.28	1/4	1,112.96	1/4	808.64	1/4	504.32	1/4	205.04	1/4		1/4		1/4		1/4	
1/2	1/2	3,233.11	1/2	2,931.02	1/2	2,627.66	1/2	2,323.90	1/2	2,019.58	1/2	1,715.26	1/2	1,410.94	1/2	1,106.62	1/2	802.30	1/2	497.98	1/2	198.70	1/2		1/2		1/2		1/2	
3/4	3/4	3,227.10	3/4	2,924.70	3/4	2,621.34	3/4	2,317.56	3/4	2,013.24	3/4	1,708.92	3/4	1,404.60	3/4	1,100.28	3/4	795.96	3/4	491.64	3/4	192.36	3/4		3/4		3/4		3/4	
3	3	3,221.10	3	2,918.38	3	2,615.02	3	2,311.22	3	2,006.90	3	1,702.58	3	1,398.26	3	1,093.94	3	789.62	3	485.30	3	186.02	3		3		3		3	
1/4	1/4	3,215.10	1/4	2,912.06	1/4	2,608.70	1/4	2,304.88	1/4	2,000.56	1/4	1,696.24	1/4	1,391.92	1/4	1,087.60	1/4	783.28	1/4	478.96	1/4	179.68	1/4		1/4		1/4		1/4	
1/2	1/2	3,209.10	1/2	2,905.74	1/2	2,602.38	1/2	2,298.54	1/2	1,994.22	1/2	1,689.90	1/2	1,385.58	1/2	1,081.26	1/2	776.94	1/2	472.62	1/2	173.34	1/2		1/2		1/2		1/2	
3/4	3/4	3,202.78	3/4	2,899.42	3/4	2,596.06	3/4	2,292.20	3/4	1,987.88	3/4	1,683.56	3/4	1,379.24	3/4	1,074.92	3/4	770.60	3/4	466.28	3/4	167.00	3/4		3/4		3/4		3/4	
4	4	3,196.46	4	2,893.10	4	2,589.74	4	2,285.86	4	1,981.54	4	1,677.22	4	1,372.90	4	1,068.58	4	764.26	4	459.94	4	160.66	4		4		4		4	
1/4	1/4	3,190.14	1/4	2,886.78	1/4	2,583.42	1/4	2,279.52	1/4	1,975.20	1/4	1,670.88	1/4	1,366.56	1/4	1,062.24	1/4	757.92	1/4	453.60	1/4	154.32	1/4		1/4		1/4		1/4	
1/2	1/2	3,183.82	1/2	2,880.46	1/2	2,577.10	1/2	2,273.18	1/2	1,968.86	1/2	1,664.54	1/2	1,360.22	1/2	1,055.90	1/2	751.58	1/2	447.26	1/2	147.98	1/2		1/2		1/2		1/2	
3/4	3/4	3,177.50	3/4	2,874.14	3/4	2,570.78	3/4	2,266.84	3/4	1,962.52	3/4	1,658.20	3/4	1,353.88	3/4	1,049.56	3/4	745.24	3/4	441.55	3/4	141.64	3/4		3/4		3/4		3/4	
5	5	3,171.18	5	2,867.82	5	2,564.46	5	2,260.50	5	1,956.18	5	1,651.86	5	1,347.54	5	1,043.22	5	738.90	5	435.84	5	135.30	5		5		5		5	
1/4	1/4	3,164.84	1/4	2,861.50	1/4	2,558.14	1/4	2,254.16	1/4	1,949.84	1/4	1,645.52	1/4	1,341.20	1/4	1,036.88	1/4	732.56	1/4	430.13	1/4	128.96	1/4		1/4		1/4		1/4	
1/2	1/2	3,335.05	1/2	3,158.54	1/2	2,855.18	1/2	2,551.82	1/2	2,247.82	1/2	1,943.50	1/2	1,639.18	1/2	1,334.86	1/2	726.22	1/2	424.42	1/2	122.62	1/2		1/2		1/2		1/2	
3/4	3/4	3,334.76	3/4	3,152.22	3/4	2,848.86	3/4	2,545.50	3/4	2,241.48	3/4	1,937.16	3/4	1,632.84	3/4	1,328.52	3/4	719.88	3/4	418.71	3/4	116.28	3/4		3/4		3/4		3/4	
6	6	3,334.46	6	3,145.90	6	2,842.54	6	2,539.18	6	2,235.14	6	1,930.82	6	1,626.50	6	1,322.18	6	713.54	6	413.00	6	109.94	6		6		6		6	
1/4	1/4	3,334.17	1/4	3,139.58	1/4	2,836.22	1/4	2,532.86	1/4	2,228.80	1/4	1,924.48	1/4	1,620.16	1/4	1,315.84	1/4	707.20	1/4	407.29	1/4	103.60	1/4		1/4		1/4		1/4	
1/2	1/2	3,333.87	1/2	3,133.26	1/2	2,829.90	1/2	2,526.54	1/2	2,222.46	1/2	1,918.14	1/2	1,613.82	1/2	1,309.50	1/2	700.86	1/2	401.58	1/2	97.26	1/2		1/2		1/2		1/2	
3/4	3/4	3,332.94	3/4	3,126.94	3/4	2,823.58	3/4	2,520.22	3/4	2,216.12	3/4	1,911.80	3/4	1,607.48	3/4	1,303.16	3/4	694.52	3/4	395.24	3/4	91.55	3/4		3/4		3/4		3/4	
7	7	3,332.01	7	3,120.62	7	2,817.26	7	2,513.90	7	2,209.78	7	1,905.46	7	1,601.14	7	1,296.82	7	688.18	7	388.90	7	85.84	7		7		7		7	
1/4	1/4	3,331.08	1/4	3,114.30	1/4	2,810.94	1/4	2,507.58	1/4	2,203.44	1/4	1,899.12	1/4	1,594.80	1/4	1,290.48	1/4	681.84	1/4	382.56	1/4	80.13	1/4		1/4		1/4		1/4	
1/2	1/2	3,330.15	1/2	3,107.98	1/2	2,804.62	1/2	2,501.26	1/2	2,197.10	1/2	1,892.78	1/2	1,588.46	1/2	1,284.14	1/2	675.50	1/2	376.22	1/2	74.42	1/2		1/2		1/2		1/2	
3/4	3/4	3,328.59	3/4	3,101.66	3/4	2,798.30	3/4	2,494.94	3/4	2,190.76	3/4	1,886.44	3/4	1,582.12	3/4	1,277.80	3/4	669.16	3/4	369.88	3/4	68.71	3/4		3/4		3/4		3/4	
8	8	3,327.02	8	3,095.34	8	2,791.98	8	2,488.62	8	2,184.42	8	1,880.10	8	1,575.78	8	1,271.46	8	662.82	8	363.54	8	63.00	8		8		8		8	
1/4	1/4	3,325.46	1/4	3,089.02	1/4	2,785.66	1/4	2,482.30	1/4	2,178.08	1/4	1,873.76	1/4	1,569.44	1/4	1,265.12	1/4	656.48	1/4	357.20	1/4	57.29	1/4		1/4		1/4		1/4	
1/2	1/2	3,323.90	1/2	3,082.70	1/2	2,779.34	1/2	2,475.98	1/2	2,171.74	1/2	1,867.42	1/2	1,563.10	1/2	1,258.78	1/2	650.14	1/2	350.86	1/2	51.58	1/2		1/2		1/2		1/2	
3/4	3/4	3,321.70	3/4	3,076.38	3/4	2,773.02	3/4	2,469.66	3/4	2,165.40	3/4	1,861.08	3/4	1,556.76	3/4	1,252.44	3/4	643.80	3/4	344.52	3/4	46.03	3/4		3/4		3/4		3/4	
9	9	3,319.50	9	3,070.06	9	2,766.70	9	2,463.34	9	2,159.06	9	1,854.74	9	1,550.42	9	1,246.10	9	637.46	9	338.18	9	40.48	9		9		9		9	
1/4	1/4	3,317.31	1/4	3,063.74	1/4	2,760.38	1/4	2,457.02	1/4	2,152.72	1/4	1,848.40	1/4	1,544.08																





# BARGE "MM 31 B" MAGNOLIA MARINE

## OUTAGE TABLE

# 3 PORT

BARGE SHOULD BE ON EVEN-LEVEL KEEL WHEN GAUGES ARE TAKEN

HULL NO. 4591

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.		10 FT.		11 FT.		12 FT.		13 FT.		14 FT.	
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0		0	3,284.87	0	2,997.38	0	2,694.02	0	2,390.36	0	2,085.56	0	1,780.76	0	1,475.96	0	1,171.16	0	866.36	0	561.56	0	262.10	0		0			
1/4		1/4	3,280.77	1/4	2,991.06	1/4	2,687.70	1/4	2,384.01	1/4	2,079.21	1/4	1,774.41	1/4	1,469.61	1/4	1,164.81	1/4	860.01	1/4	555.21	1/4	255.76	1/4		1/4			
1/2		1/2	3,276.67	1/2	2,984.74	1/2	2,681.38	1/2	2,377.66	1/2	2,072.86	1/2	1,768.06	1/2	1,463.26	1/2	1,158.46	1/2	853.66	1/2	548.86	1/2	249.42	1/2		1/2			
3/4		3/4	3,271.94	3/4	2,978.42	3/4	2,675.06	3/4	2,371.31	3/4	2,066.51	3/4	1,761.71	3/4	1,456.91	3/4	1,152.11	3/4	847.31	3/4	542.51	3/4	243.08	3/4		3/4			
1		1	3,267.20	1	2,972.10	1	2,668.74	1	2,364.96	1	2,060.16	1	1,755.36	1	1,450.56	1	1,145.76	1	840.96	1	536.16	1	236.74	1		1			
1/4		1/4	3,262.47	1/4	2,965.78	1/4	2,662.42	1/4	2,358.61	1/4	2,053.81	1/4	1,749.01	1/4	1,444.21	1/4	1,139.41	1/4	834.61	1/4	529.81	1/4	230.40	1/4		1/4			
1/2		1/2	3,257.73	1/2	2,959.46	1/2	2,656.10	1/2	2,352.26	1/2	2,047.46	1/2	1,742.66	1/2	1,437.86	1/2	1,133.06	1/2	828.26	1/2	523.46	1/2	224.06	1/2		1/2			
3/4		3/4	3,252.37	3/4	2,953.14	3/4	2,649.78	3/4	2,345.91	3/4	2,041.11	3/4	1,736.31	3/4	1,431.51	3/4	1,126.71	3/4	821.91	3/4	517.11	3/4	217.72	3/4		3/4			
2		2	3,247.00	2	2,946.82	2	2,643.46	2	2,339.56	2	2,034.76	2	1,729.96	2	1,425.16	2	1,120.36	2	815.56	2	510.76	2	211.38	2		2			
1/4		1/4	3,241.63	1/4	2,940.50	1/4	2,637.14	1/4	2,333.21	1/4	2,028.41	1/4	1,723.61	1/4	1,418.81	1/4	1,114.01	1/4	809.21	1/4	504.41	1/4	205.04	1/4		1/4			
1/2		1/2	3,236.27	1/2	2,934.18	1/2	2,630.82	1/2	2,326.86	1/2	2,022.06	1/2	1,717.26	1/2	1,412.46	1/2	1,107.66	1/2	802.86	1/2	498.06	1/2	198.70	1/2		1/2			
3/4		3/4	3,230.26	3/4	2,927.86	3/4	2,624.50	3/4	2,320.51	3/4	2,015.71	3/4	1,710.91	3/4	1,406.11	3/4	1,101.31	3/4	796.51	3/4	491.71	3/4	192.36	3/4		3/4			
3		3	3,224.26	3	2,921.54	3	2,618.18	3	2,314.16	3	2,009.36	3	1,704.56	3	1,399.76	3	1,094.96	3	790.16	3	485.36	3	186.02	3		3			
1/4		1/4	3,218.26	1/4	2,915.22	1/4	2,611.86	1/4	2,307.81	1/4	2,003.01	1/4	1,698.21	1/4	1,393.41	1/4	1,088.61	1/4	783.81	1/4	479.01	1/4	179.68	1/4		1/4			
1/2		1/2	3,212.26	1/2	2,908.90	1/2	2,605.54	1/2	2,301.46	1/2	1,996.66	1/2	1,691.86	1/2	1,387.06	1/2	1,082.26	1/2	777.46	1/2	472.66	1/2	173.34	1/2		1/2			
3/4		3/4	3,205.94	3/4	2,902.58	3/4	2,599.22	3/4	2,295.11	3/4	1,990.31	3/4	1,685.51	3/4	1,380.71	3/4	1,075.91	3/4	771.11	3/4	466.31	3/4	167.00	3/4		3/4			
4		4	3,199.62	4	2,896.26	4	2,592.90	4	2,288.76	4	1,983.96	4	1,679.16	4	1,374.36	4	1,069.56	4	764.76	4	459.96	4	160.66	4		4			
1/4		1/4	3,193.30	1/4	2,889.94	1/4	2,586.58	1/4	2,282.41	1/4	1,977.61	1/4	1,672.81	1/4	1,368.01	1/4	1,063.21	1/4	758.41	1/4	453.61	1/4	154.32	1/4		1/4			
1/2		1/2	3,186.98	1/2	2,883.62	1/2	2,580.26	1/2	2,276.06	1/2	1,971.26	1/2	1,666.46	1/2	1,361.66	1/2	1,056.86	1/2	752.06	1/2	447.26	1/2	147.98	1/2		1/2			
3/4		3/4	3,180.66	3/4	2,877.30	3/4	2,573.94	3/4	2,269.71	3/4	1,964.91	3/4	1,660.11	3/4	1,355.31	3/4	1,050.51	3/4	745.71	3/4	441.55	3/4	141.64	3/4		3/4			
5		5	3,174.34	5	2,870.98	5	2,567.62	5	2,263.36	5	1,958.56	5	1,653.76	5	1,348.96	5	1,044.16	5	739.36	5	435.84	5	135.30	5		5			
1/4		1/4	3,168.02	1/4	2,864.66	1/4	2,561.30	1/4	2,257.01	1/4	1,952.21	1/4	1,647.41	1/4	1,342.61	1/4	1,037.81	1/4	733.01	1/4	430.13	1/4	128.96	1/4		1/4			
1/2		1/2	3,338.21	1/2	3,161.70	1/2	2,858.34	1/2	2,554.98	1/2	2,250.66	1/2	1,945.86	1/2	1,641.06	1/2	1,336.26	1/2	726.66	1/2	424.42	1/2	122.62	1/2		1/2			
3/4		3/4	3,337.92	3/4	3,155.38	3/4	2,852.02	3/4	2,548.66	3/4	2,244.31	3/4	1,939.51	3/4	1,634.71	3/4	1,329.91	3/4	720.31	3/4	418.71	3/4	116.28	3/4		3/4			
6		6	3,337.62	6	3,149.06	6	2,845.70	6	2,542.34	6	2,237.96	6	1,933.16	6	1,628.36	6	1,323.56	6	713.96	6	413.00	6	109.94	6		6			
1/4		1/4	3,337.33	1/4	3,142.74	1/4	2,839.38	1/4	2,536.02	1/4	2,231.61	1/4	1,926.81	1/4	1,622.01	1/4	1,317.21	1/4	707.61	1/4	407.29	1/4	103.60	1/4		1/4			
1/2		1/2	3,337.03	1/2	3,136.42	1/2	2,833.06	1/2	2,529.70	1/2	2,225.26	1/2	1,920.46	1/2	1,615.66	1/2	1,310.86	1/2	701.26	1/2	401.58	1/2	97.26	1/2		1/2			
3/4		3/4	3,336.10	3/4	3,130.10	3/4	2,826.74	3/4	2,523.38	3/4	2,218.91	3/4	1,914.11	3/4	1,609.31	3/4	1,304.51	3/4	699.71	3/4	395.24	3/4	91.55	3/4		3/4			
7		7	3,335.17	7	3,123.78	7	2,820.42	7	2,517.06	7	2,212.56	7	1,907.76	7	1,602.96	7	1,298.16	7	688.56	7	388.90	7	85.84	7		7			
1/4		1/4	3,334.24	1/4	3,117.46	1/4	2,814.10	1/4	2,510.74	1/4	2,206.21	1/4	1,901.41	1/4	1,596.61	1/4	1,291.81	1/4	682.21	1/4	382.56	1/4	80.13	1/4		1/4			
1/2		1/2	3,333.31	1/2	3,111.14	1/2	2,807.78	1/2	2,504.42	1/2	2,199.86	1/2	1,895.06	1/2	1,590.26	1/2	1,285.46	1/2	675.86	1/2	376.22	1/2	74.42	1/2		1/2			
3/4		3/4	3,331.75	3/4	3,104.82	3/4	2,801.46	3/4	2,498.10	3/4	2,193.51	3/4	1,888.71	3/4	1,583.91	3/4	1,279.11	3/4	669.51	3/4	369.88	3/4	68.71	3/4		3/4			
8		8	3,330.18	8	3,098.50	8	2,795.14	8	2,491.78	8	2,187.16	8	1,882.36	8	1,577.56	8	1,272.76	8	663.16	8	363.54	8	63.00	8		8			
1/4		1/4	3,328.62	1/4	3,092.18	1/4	2,788.82	1/4	2,485.46	1/4	2,180.81	1/4	1,876.01	1/4	1,571.21	1/4	1,266.41	1/4	656.81	1/4	357.20	1/4	57.29	1/4		1/4			
1/2		1/2	3,327.06	1/2	3,085.86	1/2	2,782.50	1/2	2,479.14	1/2	2,174.46	1/2	1,869.66	1/2	1,564.86	1/2	1,260.06	1/2	650.46	1/2	350.86	1/2	51.58	1/2		1/2			
3/4		3/4	3,324.86	3/4	3,079.54	3/4	2,776.18	3/4	2,472.82	3/4	2,168.11	3/4	1,863.31	3/4	1,558.51	3/4	1,253.71	3/4	644.11	3/4	344.52	3/4	46.03	3/4		3/4			
9		9	3,322.66	9	3,073.22	9	2,769.86	9	2,466.50	9	2,161.76	9	1,856.96	9	1,552.16	9	1,247.36	9	637.76	9	338.18	9	40.48	9		9			
1/4		1/4	3,320.47	1/4	3,066.90	1/4	2,763.54	1/4	2,460.18	1/4	2,155.41	1/4	1,850.61	1/4	1,545.81	1/4	1,241.01	1/4	631.41	1/4	331.84	1/4	34.94	1/4		1/4			
1/2		1/2	3,318.27	1/2	3,060.58	1/2	2,757.22	1/2	2,453.86	1/2	2,149.06	1/2	1,844.26	1/2	1,539.46	1/2	1,234.66	1/2	625.06	1/2	325.50	1/2	29.39	1/2		1/2			
3/4		3/4	3,315.44	3/4	3,054.26	3/4	2,750.90	3/4	2,447.51	3/4	2,142.71	3/4	1,837.91	3/4	1,533.11	3/4	1,228.31	3/4	618.71	3/4	319.16	3/4	25.43	3/4		3/4			
10		10	3,312.61	10	3,047.94	10	2,744.58	10	2,441.16	10	2,136.36	10	1,831.56	10	1,526.76	10	1,221.96	10	612.36	10	312.82	10	21.46	10		10			
1/4		1/4	3,309.77	1/4	3,041.62	1/4	2,738.26	1/4	2,434.81	1/4	2,130.01	1/4	1,825.21	1/4	1,520.41	1/4	1,215.61	1/4	606.01	1/4	306.48	1/4	17.50	1/4		1/4			
1/2		1/2	3,306.94	1/2	3,035.30	1/2	2,731.94	1/2	2,428.46	1/2	2,123.66	1/2	1,818.86	1/2	1,514.06	1/2	1,209.26	1/2	599.66	1/2	300.14	1/2	13.54	1/2		1/2			
3/4		3/4																											



# BARGE "MM 31 B" MAGNOLIA MARINE

## OUTAGE TABLE

# 3 STAR

BARGE SHOULD BE ON EVEN-LEVEL KEEL WHEN GAUGES ARE TAKEN

HULL NO. 4591

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.		10 FT.		11 FT.		12 FT.		13 FT.		14 FT.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0		0	3,276.67	0	2,984.74	0	2,681.38	0	2,377.66	0	2,072.86	0	1,768.06	0	1,463.26	0	1,158.46	0	853.66	0	548.86	0	249.42	0		0		0	
1/4		1/4	3,271.94	1/4	2,978.42	1/4	2,675.06	1/4	2,371.31	1/4	2,066.51	1/4	1,761.71	1/4	1,456.91	1/4	1,152.11	1/4	847.31	1/4	542.51	1/4	243.08	1/4		1/4		1/4	
1/2		1/2	3,267.20	1/2	2,972.10	1/2	2,668.74	1/2	2,364.96	1/2	2,060.16	1/2	1,755.36	1/2	1,450.56	1/2	1,145.76	1/2	840.96	1/2	536.16	1/2	236.74	1/2		1/2		1/2	
3/4		3/4	3,262.47	3/4	2,965.78	3/4	2,662.42	3/4	2,358.61	3/4	2,053.81	3/4	1,749.01	3/4	1,444.21	3/4	1,139.41	3/4	834.61	3/4	529.81	3/4	230.40	3/4		3/4		3/4	
1		1	3,257.73	1	2,959.46	1	2,656.10	1	2,352.26	1	2,047.46	1	1,742.66	1	1,437.86	1	1,133.06	1	828.26	1	523.46	1	224.06	1		1		1	
1/4		1/4	3,252.37	1/4	2,953.14	1/4	2,649.78	1/4	2,345.91	1/4	2,041.11	1/4	1,736.31	1/4	1,431.51	1/4	1,126.71	1/4	821.91	1/4	517.11	1/4	217.72	1/4		1/4		1/4	
1/2		1/2	3,247.00	1/2	2,946.82	1/2	2,643.46	1/2	2,339.56	1/2	2,034.76	1/2	1,729.96	1/2	1,425.16	1/2	1,120.36	1/2	815.56	1/2	510.76	1/2	211.38	1/2		1/2		1/2	
3/4		3/4	3,241.63	3/4	2,940.50	3/4	2,637.14	3/4	2,333.21	3/4	2,028.41	3/4	1,723.61	3/4	1,418.81	3/4	1,114.01	3/4	809.21	3/4	504.41	3/4	205.04	3/4		3/4		3/4	
2		2	3,236.27	2	2,934.18	2	2,630.82	2	2,326.86	2	2,022.06	2	1,717.26	2	1,412.46	2	1,107.66	2	802.86	2	498.06	2	198.70	2		2		2	
1/4		1/4	3,230.26	1/4	2,927.86	1/4	2,624.50	1/4	2,320.51	1/4	2,015.71	1/4	1,710.91	1/4	1,406.11	1/4	1,101.31	1/4	796.51	1/4	491.71	1/4	192.36	1/4		1/4		1/4	
1/2		1/2	3,224.26	1/2	2,921.54	1/2	2,618.18	1/2	2,314.16	1/2	2,009.36	1/2	1,704.56	1/2	1,399.76	1/2	1,094.96	1/2	790.16	1/2	485.36	1/2	186.02	1/2		1/2		1/2	
3/4		3/4	3,218.26	3/4	2,915.22	3/4	2,611.86	3/4	2,307.81	3/4	2,003.01	3/4	1,698.21	3/4	1,393.41	3/4	1,088.61	3/4	783.81	3/4	479.01	3/4	179.68	3/4		3/4		3/4	
3		3	3,212.26	3	2,908.90	3	2,605.54	3	2,301.46	3	1,996.66	3	1,691.86	3	1,387.06	3	1,082.26	3	777.46	3	472.66	3	173.34	3		3		3	
1/4		1/4	3,205.94	1/4	2,902.58	1/4	2,599.22	1/4	2,295.11	1/4	1,990.31	1/4	1,685.51	1/4	1,380.71	1/4	1,075.91	1/4	771.11	1/4	466.31	1/4	167.00	1/4		1/4		1/4	
1/2		1/2	3,199.62	1/2	2,896.26	1/2	2,592.90	1/2	2,288.76	1/2	1,983.96	1/2	1,679.16	1/2	1,374.36	1/2	1,069.56	1/2	764.76	1/2	459.96	1/2	160.66	1/2		1/2		1/2	
3/4		3/4	3,193.30	3/4	2,889.94	3/4	2,586.58	3/4	2,282.41	3/4	1,977.61	3/4	1,672.81	3/4	1,368.01	3/4	1,063.21	3/4	758.41	3/4	453.61	3/4	154.32	3/4		3/4		3/4	
4		4	3,186.98	4	2,883.62	4	2,580.26	4	2,276.06	4	1,971.26	4	1,666.46	4	1,361.66	4	1,056.86	4	752.06	4	447.26	4	147.98	4		4		4	
1/4		1/4	3,180.66	1/4	2,877.30	1/4	2,573.94	1/4	2,269.71	1/4	1,964.91	1/4	1,660.11	1/4	1,355.31	1/4	1,050.51	1/4	745.71	1/4	441.55	1/4	141.64	1/4		1/4		1/4	
1/2		1/2	3,174.34	1/2	2,870.98	1/2	2,567.62	1/2	2,263.36	1/2	1,958.56	1/2	1,653.76	1/2	1,348.96	1/2	1,044.16	1/2	739.36	1/2	435.84	1/2	135.30	1/2		1/2		1/2	
3/4		3/4	3,168.02	3/4	2,864.66	3/4	2,561.30	3/4	2,257.01	3/4	1,952.21	3/4	1,647.41	3/4	1,342.61	3/4	1,037.81	3/4	733.01	3/4	430.13	3/4	128.96	3/4		3/4		3/4	
5	3,338.21	5	3,161.70	5	2,858.34	5	2,554.98	5	2,250.66	5	1,945.86	5	1,641.06	5	1,336.26	5	1,031.46	5	726.66	5	424.42	5	122.62	5		5		5	
1/4	3,337.92	1/4	3,155.38	1/4	2,852.02	1/4	2,548.66	1/4	2,244.31	1/4	1,939.51	1/4	1,634.71	1/4	1,329.91	1/4	1,025.11	1/4	720.31	1/4	418.71	1/4	116.28	1/4		1/4		1/4	
1/2	3,337.62	1/2	3,149.06	1/2	2,845.70	1/2	2,542.34	1/2	2,237.96	1/2	1,933.16	1/2	1,628.36	1/2	1,323.56	1/2	1,018.76	1/2	713.96	1/2	413.00	1/2	109.94	1/2		1/2		1/2	
3/4	3,337.33	3/4	3,142.74	3/4	2,839.38	3/4	2,536.02	3/4	2,231.61	3/4	1,926.81	3/4	1,622.01	3/4	1,317.21	3/4	1,012.41	3/4	707.61	3/4	407.29	3/4	103.60	3/4		3/4		3/4	
6	3,337.03	6	3,136.42	6	2,833.06	6	2,529.70	6	2,225.26	6	1,920.46	6	1,615.66	6	1,310.86	6	1,006.06	6	701.26	6	401.58	6	97.26	6		6		6	
1/4	3,336.10	1/4	3,130.10	1/4	2,826.74	1/4	2,523.38	1/4	2,218.91	1/4	1,914.11	1/4	1,609.31	1/4	1,304.51	1/4	999.71	1/4	694.91	1/4	395.24	1/4	91.55	1/4		1/4		1/4	
1/2	3,335.17	1/2	3,123.78	1/2	2,820.42	1/2	2,517.06	1/2	2,212.56	1/2	1,907.76	1/2	1,602.96	1/2	1,298.16	1/2	993.36	1/2	688.56	1/2	388.90	1/2	85.84	1/2		1/2		1/2	
3/4	3,334.24	3/4	3,117.46	3/4	2,814.10	3/4	2,510.74	3/4	2,206.21	3/4	1,901.41	3/4	1,596.61	3/4	1,291.81	3/4	987.01	3/4	682.21	3/4	382.56	3/4	80.13	3/4		3/4		3/4	
7	3,333.31	7	3,111.14	7	2,807.78	7	2,504.42	7	2,199.86	7	1,895.06	7	1,590.26	7	1,285.46	7	980.66	7	675.86	7	376.22	7	74.42	7		7		7	
1/4	3,331.75	1/4	3,104.82	1/4	2,801.46	1/4	2,498.10	1/4	2,193.51	1/4	1,888.71	1/4	1,583.91	1/4	1,279.11	1/4	974.31	1/4	669.51	1/4	369.88	1/4	68.71	1/4		1/4		1/4	
1/2	3,330.18	1/2	3,098.50	1/2	2,795.14	1/2	2,491.78	1/2	2,187.16	1/2	1,882.36	1/2	1,577.56	1/2	1,272.76	1/2	967.96	1/2	663.16	1/2	363.54	1/2	63.00	1/2		1/2		1/2	
3/4	3,328.62	3/4	3,092.18	3/4	2,788.82	3/4	2,485.46	3/4	2,180.81	3/4	1,876.01	3/4	1,571.21	3/4	1,266.41	3/4	961.61	3/4	656.81	3/4	357.20	3/4	57.29	3/4		3/4		3/4	
8	3,327.06	8	3,085.86	8	2,782.50	8	2,479.14	8	2,174.46	8	1,869.66	8	1,564.86	8	1,260.06	8	955.26	8	650.46	8	350.86	8	51.58	8		8		8	
1/4	3,324.86	1/4	3,079.54	1/4	2,776.18	1/4	2,472.82	1/4	2,168.11	1/4	1,863.31	1/4	1,558.51	1/4	1,253.71	1/4	948.91	1/4	644.11	1/4	344.52	1/4	46.03	1/4		1/4		1/4	
1/2	3,322.66	1/2	3,073.22	1/2	2,769.86	1/2	2,466.50	1/2	2,161.76	1/2	1,856.96	1/2	1,552.16	1/2	1,247.36	1/2	942.56	1/2	637.76	1/2	338.18	1/2	40.48	1/2		1/2		1/2	
3/4	3,320.47	3/4	3,066.90	3/4	2,763.54	3/4	2,460.18	3/4	2,155.41	3/4	1,850.61	3/4	1,545.81	3/4	1,241.01	3/4	936.21	3/4	631.41	3/4	331.84	3/4	34.94	3/4		3/4		3/4	
9	3,318.27	9	3,060.58	9	2,757.22	9	2,453.86	9	2,149.06	9	1,844.26	9	1,539.46	9	1,234.66	9	929.86	9	625.06	9	325.50	9	29.39	9		9		9	
1/4	3,315.44	1/4	3,054.26	1/4	2,750.90	1/4	2,447.51	1/4	2,142.71	1/4	1,837.91	1/4	1,533.11	1/4	1,228.31	1/4	923.51	1/4	618.71	1/4	319.16	1/4	25.43	1/4		1/4		1/4	
1/2	3,312.61	1/2	3,047.94	1/2	2,744.58	1/2	2,441.16	1/2	2,136.36	1/2	1,831.56	1/2	1,526.76	1/2	1,221.96	1/2	917.16	1/2	612.36	1/2	312.82	1/2	21.46	1/2		1/2		1/2	
3/4	3,309.77	3/4	3,041.62	3/4	2,738.26	3/4	2,434.81	3/4	2,130.01	3/4	1,825.21	3/4	1,520.41	3/4	1,215.61	3/4	910.81	3/4	606.01	3/4	306.48	3/4	17.50	3/4		3/4		3/4	
10	3,306.94	10	3,035.30	10	2,731.94	10	2,428.46	10	2,123.66	10	1,818.86	10	1,514.06	10	1,209.26	10	904.46	10	599.66	10	300.14	10	* 13.54	10		10		10	
1/4	3,303.47	1/4	3,028.98	1/4	2,725.62	1/4	2,422.11	1/4	2,117.31	1/4	1,812.51	1/4	1,507.71	1/4	1,202.91	1/4	898.11	1/4	593.31	1/4	293.80	1/4		1/4	</				



# BARGE "MM 31 B" MAGNOLIA MARINE

## OUTAGE TABLE

# 4 PORT

BARGE SHOULD BE ON EVEN-LEVEL KEEL WHEN GAUGES ARE TAKEN

HULL NO. 4591

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.		10 FT.		11 FT.		12 FT.		13 FT.		14 FT.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0		0	3,263.40	0	2,971.46	0	2,668.10	0	2,364.89	0	2,062.10	0	1,759.32	0	1,456.54	0	1,153.75	0	850.97	0	548.18	0	249.42	0		0		0	
1/4		1/4	3,258.67	1/4	2,965.14	1/4	2,661.78	1/4	2,358.58	1/4	2,055.80	1/4	1,753.01	1/4	1,450.23	1/4	1,147.44	1/4	844.66	1/4	541.88	1/4	243.08	1/4		1/4		1/4	
1/2		1/2	3,253.93	1/2	2,958.82	1/2	2,655.46	1/2	2,352.27	1/2	2,049.49	1/2	1,746.70	1/2	1,443.92	1/2	1,141.14	1/2	838.35	1/2	535.57	1/2	236.74	1/2		1/2		1/2	
3/4		3/4	3,249.20	3/4	2,952.50	3/4	2,649.14	3/4	2,345.96	3/4	2,043.18	3/4	1,740.40	3/4	1,437.61	3/4	1,134.83	3/4	832.04	3/4	529.26	3/4	230.40	3/4		3/4		3/4	
1		1	3,244.46	1	2,946.18	1	2,642.82	1	2,339.66	1	2,036.87	1	1,734.09	1	1,431.30	1	1,128.52	1	825.74	1	522.95	1	224.06	1		1		1	
1/4		1/4	3,239.09	1/4	2,939.86	1/4	2,636.50	1/4	2,333.35	1/4	2,030.56	1/4	1,727.78	1/4	1,425.00	1/4	1,122.21	1/4	819.43	1/4	516.64	1/4	217.72	1/4		1/4		1/4	
1/2		1/2	3,233.73	1/2	2,933.54	1/2	2,630.18	1/2	2,327.04	1/2	2,024.26	1/2	1,721.47	1/2	1,418.69	1/2	1,115.90	1/2	813.12	1/2	510.34	1/2	211.38	1/2		1/2		1/2	
3/4		3/4	3,228.36	3/4	2,927.22	3/4	2,623.86	3/4	2,320.73	3/4	2,017.95	3/4	1,715.16	3/4	1,412.38	3/4	1,109.60	3/4	806.81	3/4	504.03	3/4	205.04	3/4		3/4		3/4	
2		2	3,222.99	2	2,920.90	2	2,617.54	2	2,314.42	2	2,011.64	2	1,708.86	2	1,406.07	2	1,103.29	2	800.50	2	497.72	2	198.70	2		2		2	
1/4		1/4	3,216.99	1/4	2,914.58	1/4	2,611.22	1/4	2,308.12	1/4	2,005.33	1/4	1,702.55	1/4	1,399.76	1/4	1,096.98	1/4	794.20	1/4	491.41	1/4	192.36	1/4		1/4		1/4	
1/2		1/2	3,210.99	1/2	2,908.26	1/2	2,604.90	1/2	2,301.81	1/2	1,999.02	1/2	1,696.24	1/2	1,393.46	1/2	1,090.67	1/2	787.89	1/2	485.10	1/2	186.02	1/2		1/2		1/2	
3/4		3/4	3,204.99	3/4	2,901.94	3/4	2,598.58	3/4	2,295.50	3/4	1,992.72	3/4	1,689.93	3/4	1,387.15	3/4	1,084.36	3/4	781.58	3/4	478.80	3/4	179.68	3/4		3/4		3/4	
3		3	3,198.99	3	2,895.62	3	2,592.26	3	2,289.19	3	1,986.41	3	1,683.62	3	1,380.84	3	1,078.06	3	775.27	3	472.49	3	173.34	3		3		3	
1/4		1/4	3,192.67	1/4	2,889.30	1/4	2,585.94	1/4	2,282.88	1/4	1,980.10	1/4	1,677.32	1/4	1,374.53	1/4	1,071.75	1/4	768.96	1/4	466.18	1/4	167.00	1/4		1/4		1/4	
1/2		1/2	3,186.35	1/2	2,882.98	1/2	2,579.62	1/2	2,276.58	1/2	1,973.79	1/2	1,671.01	1/2	1,368.22	1/2	1,065.44	1/2	762.66	1/2	459.87	1/2	160.66	1/2		1/2		1/2	
3/4		3/4	3,180.03	3/4	2,876.66	3/4	2,573.30	3/4	2,270.27	3/4	1,967.48	3/4	1,664.70	3/4	1,361.92	3/4	1,059.13	3/4	756.35	3/4	453.56	3/4	154.32	3/4		3/4		3/4	
4		4	3,173.71	4	2,870.34	4	2,566.98	4	2,263.96	4	1,961.18	4	1,658.39	4	1,355.61	4	1,052.82	4	750.04	4	447.26	4	147.98	4		4		4	
1/4		1/4	3,167.39	1/4	2,864.02	1/4	2,560.66	1/4	2,257.65	1/4	1,954.87	1/4	1,652.08	1/4	1,349.30	1/4	1,046.52	1/4	743.73	1/4	441.55	1/4	141.64	1/4		1/4		1/4	
1/2		1/2	3,161.07	1/2	2,857.70	1/2	2,554.34	1/2	2,251.34	1/2	1,948.56	1/2	1,645.78	1/2	1,342.99	1/2	1,040.21	1/2	737.42	1/2	435.84	1/2	135.30	1/2		1/2		1/2	
3/4		3/4	3,154.75	3/4	2,851.38	3/4	2,548.02	3/4	2,245.04	3/4	1,942.25	3/4	1,639.47	3/4	1,336.68	3/4	1,033.90	3/4	731.12	3/4	430.13	3/4	128.96	3/4		3/4		3/4	
5	3,324.94	5	3,148.43	5	2,845.06	5	2,541.70	5	2,238.73	5	1,935.94	5	1,633.16	5	1,330.38	5	1,027.59	5	724.81	5	424.42	5	122.62	5		5		5	
1/4	3,324.65	1/4	3,142.11	1/4	2,838.74	1/4	2,535.38	1/4	2,232.42	1/4	1,929.64	1/4	1,626.85	1/4	1,324.07	1/4	1,021.28	1/4	718.50	1/4	418.71	1/4	116.28	1/4		1/4		1/4	
1/2	3,324.35	1/2	3,135.79	1/2	2,832.42	1/2	2,529.06	1/2	2,226.11	1/2	1,923.33	1/2	1,620.54	1/2	1,317.76	1/2	1,014.98	1/2	712.19	1/2	413.00	1/2	109.94	1/2		1/2		1/2	
3/4	3,324.05	3/4	3,129.47	3/4	2,826.10	3/4	2,522.74	3/4	2,219.80	3/4	1,917.02	3/4	1,614.24	3/4	1,311.45	3/4	1,008.67	3/4	705.88	3/4	407.29	3/4	103.60	3/4		3/4		3/4	
6	3,323.76	6	3,123.15	6	2,819.78	6	2,516.42	6	2,213.50	6	1,910.71	6	1,607.93	6	1,305.14	6	1,002.36	6	699.58	6	401.58	6	97.26	6		6		6	
1/4	3,322.83	1/4	3,116.83	1/4	2,813.46	1/4	2,510.10	1/4	2,207.19	1/4	1,904.40	1/4	1,601.62	1/4	1,298.84	1/4	996.05	1/4	693.27	1/4	395.24	1/4	91.55	1/4		1/4		1/4	
1/2	3,321.90	1/2	3,110.51	1/2	2,807.14	1/2	2,503.78	1/2	2,200.88	1/2	1,898.10	1/2	1,595.31	1/2	1,292.53	1/2	989.74	1/2	686.96	1/2	388.90	1/2	85.84	1/2		1/2		1/2	
3/4	3,320.97	3/4	3,104.19	3/4	2,800.82	3/4	2,497.46	3/4	2,194.57	3/4	1,891.79	3/4	1,589.00	3/4	1,286.22	3/4	983.44	3/4	680.65	3/4	382.56	3/4	80.13	3/4		3/4		3/4	
7	3,320.04	7	3,097.87	7	2,794.50	7	2,491.14	7	2,188.26	7	1,885.48	7	1,582.70	7	1,279.91	7	977.13	7	674.34	7	376.22	7	74.42	7		7		7	
1/4	3,318.47	1/4	3,091.55	1/4	2,788.18	1/4	2,484.82	1/4	2,181.96	1/4	1,879.17	1/4	1,576.39	1/4	1,273.60	1/4	970.82	1/4	668.04	1/4	369.88	1/4	68.71	1/4		1/4		1/4	
1/2	3,316.91	1/2	3,085.23	1/2	2,781.86	1/2	2,478.50	1/2	2,175.65	1/2	1,872.86	1/2	1,570.08	1/2	1,267.30	1/2	964.51	1/2	661.73	1/2	363.54	1/2	63.00	1/2		1/2		1/2	
3/4	3,315.35	3/4	3,078.91	3/4	2,775.54	3/4	2,472.18	3/4	2,169.34	3/4	1,866.56	3/4	1,563.77	3/4	1,260.99	3/4	958.20	3/4	655.42	3/4	357.20	3/4	57.29	3/4		3/4		3/4	
8	3,313.79	8	3,072.59	8	2,769.22	8	2,465.86	8	2,163.03	8	1,860.25	8	1,557.46	8	1,254.68	8	951.90	8	649.11	8	350.86	8	51.58	8		8		8	
1/4	3,311.59	1/4	3,066.27	1/4	2,762.90	1/4	2,459.54	1/4	2,156.72	1/4	1,853.94	1/4	1,551.16	1/4	1,248.37	1/4	945.59	1/4	642.80	1/4	344.52	1/4	46.03	1/4		1/4		1/4	
1/2	3,309.39	1/2	3,059.95	1/2	2,756.58	1/2	2,453.22	1/2	2,150.42	1/2	1,847.63	1/2	1,544.85	1/2	1,242.06	1/2	939.28	1/2	636.50	1/2	338.18	1/2	40.48	1/2		1/2		1/2	
3/4	3,307.19	3/4	3,053.63	3/4	2,750.26	3/4	2,446.90	3/4	2,144.11	3/4	1,841.32	3/4	1,538.54	3/4	1,235.76	3/4	932.97	3/4	630.19	3/4	331.84	3/4	34.94	3/4		3/4		3/4	
9	3,305.00	9	3,047.31	9	2,743.94	9	2,440.58	9	2,137.80	9	1,835.02	9	1,532.23	9	1,229.45	9	926.66	9	623.88	9	325.50	9	29.39	9		9		9	
1/4	3,302.17	1/4	3,040.99	1/4	2,737.62	1/4	2,434.28	1/4	2,131.49	1/4	1,828.71	1/4	1,525.92	1/4	1,223.14	1/4	920.36	1/4	617.57	1/4	319.16	1/4	25.43	1/4		1/4		1/4	
1/2	3,299.33	1/2	3,034.67	1/2	2,731.30	1/2	2,427.97	1/2	2,125.18	1/2	1,822.40	1/2	1,519.62	1/2	1,216.83	1/2	914.05	1/2	611.26	1/2	312.82	1/2	21.46	1/2		1/2		1/2	
3/4	3,296.50	3/4	3,028.35	3/4	2,724.98	3/4	2,421.66	3/4	2,118.88	3/4	1,816.09	3/4	1,513.31	3/4	1,210.52	3/4	907.74	3/4	604.96	3/4	306.48	3/4	17.50	3/4		3/4		3/4	
10	3,293.67	10	3,022.03	10	2,718.66	10	2,415.35	10	2,112.57	10	1,809.78	10	1,507.00	10	1,204.22	10	901.43	10	598.65	10	300.14	10	* 13.54	10		10		10	
1/4	3,290.20	1/4	3,015.70	1/4	2,712.34	1/4	2,409.04	1/4	2,106.26	1/4	1,803.48	1/4	1,500.69	1/4	1,197.91	1/4	895.12	1/4	592.34	1/4	293.80	1/4		1/4					



# BARGE "MM 31 B" MAGNOLIA MARINE

## OUTAGE TABLE

# 4 STAR

BARGE SHOULD BE ON EVEN-LEVEL KEEL WHEN GAUGES ARE TAKEN

HULL NO. 4591

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.		10 FT.		11 FT.		12 FT.		13 FT.		14 FT.	
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0		0	3,258.67	0	2,965.14	0	2,661.78	0	2,358.58	0	2,055.80	0	1,753.01	0	1,450.23	0	1,147.44	0	844.66	0	541.88	0	243.08	0		0			
1/4		1/4	3,253.93	1/4	2,958.82	1/4	2,655.46	1/4	2,352.27	1/4	2,049.49	1/4	1,746.70	1/4	1,443.92	1/4	1,141.14	1/4	838.35	1/4	535.57	1/4	236.74	1/4		1/4			
1/2		1/2	3,249.20	1/2	2,952.50	1/2	2,649.14	1/2	2,345.96	1/2	2,043.18	1/2	1,740.40	1/2	1,437.61	1/2	1,134.83	1/2	832.04	1/2	529.26	1/2	230.40	1/2		1/2			
3/4		3/4	3,244.46	3/4	2,946.18	3/4	2,642.82	3/4	2,339.66	3/4	2,036.87	3/4	1,734.09	3/4	1,431.30	3/4	1,128.52	3/4	825.74	3/4	522.95	3/4	224.06	3/4		3/4			
1		1	3,239.09	1	2,939.86	1	2,636.50	1	2,333.35	1	2,030.56	1	1,727.78	1	1,425.00	1	1,122.21	1	819.43	1	516.64	1	217.72	1		1			
1/4		1/4	3,233.73	1/4	2,933.54	1/4	2,630.18	1/4	2,327.04	1/4	2,024.26	1/4	1,721.47	1/4	1,418.69	1/4	1,115.90	1/4	813.12	1/4	510.34	1/4	211.38	1/4		1/4			
1/2		1/2	3,228.36	1/2	2,927.22	1/2	2,623.86	1/2	2,320.73	1/2	2,017.95	1/2	1,715.16	1/2	1,412.38	1/2	1,109.60	1/2	806.81	1/2	504.03	1/2	205.04	1/2		1/2			
3/4		3/4	3,222.99	3/4	2,920.90	3/4	2,617.54	3/4	2,314.42	3/4	2,011.64	3/4	1,708.86	3/4	1,406.07	3/4	1,103.29	3/4	800.50	3/4	497.72	3/4	198.70	3/4		3/4			
2		2	3,216.99	2	2,914.58	2	2,611.22	2	2,308.12	2	2,005.33	2	1,702.55	2	1,399.76	2	1,096.98	2	794.20	2	491.41	2	192.36	2		2			
1/4		1/4	3,210.99	1/4	2,908.26	1/4	2,604.90	1/4	2,301.81	1/4	1,999.02	1/4	1,696.24	1/4	1,393.46	1/4	1,090.67	1/4	787.89	1/4	485.10	1/4	186.02	1/4		1/4			
1/2		1/2	3,204.99	1/2	2,901.94	1/2	2,598.58	1/2	2,295.50	1/2	1,992.72	1/2	1,689.93	1/2	1,387.15	1/2	1,084.36	1/2	781.58	1/2	478.80	1/2	179.68	1/2		1/2			
3/4		3/4	3,198.99	3/4	2,895.62	3/4	2,592.26	3/4	2,289.19	3/4	1,986.41	3/4	1,683.62	3/4	1,380.84	3/4	1,078.06	3/4	775.27	3/4	472.49	3/4	173.34	3/4		3/4			
3		3	3,192.67	3	2,889.30	3	2,585.94	3	2,282.88	3	1,980.10	3	1,677.32	3	1,374.53	3	1,071.75	3	768.96	3	466.18	3	167.00	3		3			
1/4		1/4	3,186.35	1/4	2,882.98	1/4	2,579.62	1/4	2,276.58	1/4	1,973.79	1/4	1,671.01	1/4	1,368.22	1/4	1,065.44	1/4	762.66	1/4	459.87	1/4	160.66	1/4		1/4			
1/2		1/2	3,180.03	1/2	2,876.66	1/2	2,573.30	1/2	2,270.27	1/2	1,967.48	1/2	1,664.70	1/2	1,361.92	1/2	1,059.13	1/2	756.35	1/2	453.56	1/2	154.32	1/2		1/2			
3/4		3/4	3,173.71	3/4	2,870.34	3/4	2,566.98	3/4	2,263.96	3/4	1,961.18	3/4	1,658.39	3/4	1,355.61	3/4	1,052.82	3/4	750.04	3/4	447.26	3/4	147.98	3/4		3/4			
4		4	3,167.39	4	2,864.02	4	2,560.66	4	2,257.65	4	1,954.87	4	1,652.08	4	1,349.30	4	1,046.52	4	743.73	4	441.55	4	141.64	4		4			
1/4		1/4	3,161.07	1/4	2,857.70	1/4	2,554.34	1/4	2,251.34	1/4	1,948.56	1/4	1,645.78	1/4	1,342.99	1/4	1,040.21	1/4	737.42	1/4	435.84	1/4	135.30	1/4		1/4			
1/2		1/2	3,154.75	1/2	2,851.38	1/2	2,548.02	1/2	2,245.04	1/2	1,942.25	1/2	1,639.47	1/2	1,336.68	1/2	1,033.90	1/2	731.12	1/2	430.13	1/2	128.96	1/2		1/2			
3/4	3,324.94	3/4	3,148.43	3/4	2,845.06	3/4	2,541.70	3/4	2,238.73	3/4	1,935.94	3/4	1,633.16	3/4	1,330.38	3/4	1,027.59	3/4	724.81	3/4	424.42	3/4	122.62	3/4		3/4			
5	3,324.65	5	3,142.11	5	2,838.74	5	2,535.38	5	2,232.42	5	1,929.64	5	1,626.85	5	1,324.07	5	1,021.28	5	718.50	5	418.71	5	116.28	5		5			
1/4	3,324.35	1/4	3,135.79	1/4	2,832.42	1/4	2,529.06	1/4	2,226.11	1/4	1,923.33	1/4	1,620.54	1/4	1,317.46	1/4	1,014.98	1/4	712.19	1/4	413.00	1/4	109.94	1/4		1/4			
1/2	3,324.05	1/2	3,129.47	1/2	2,826.10	1/2	2,522.74	1/2	2,219.80	1/2	1,917.02	1/2	1,614.24	1/2	1,311.75	1/2	1,008.67	1/2	705.88	1/2	407.29	1/2	103.60	1/2		1/2			
3/4	3,323.76	3/4	3,123.15	3/4	2,819.78	3/4	2,516.42	3/4	2,213.50	3/4	1,910.71	3/4	1,607.93	3/4	1,305.14	3/4	1,002.36	3/4	699.58	3/4	401.58	3/4	97.26	3/4		3/4			
6	3,322.83	6	3,116.83	6	2,813.46	6	2,510.10	6	2,207.19	6	1,904.40	6	1,601.62	6	1,298.84	6	996.05	6	693.27	6	395.24	6	91.55	6		6			
1/4	3,321.90	1/4	3,110.51	1/4	2,807.14	1/4	2,503.78	1/4	2,200.88	1/4	1,898.10	1/4	1,595.31	1/4	1,292.53	1/4	989.74	1/4	686.96	1/4	388.90	1/4	85.84	1/4		1/4			
1/2	3,320.97	1/2	3,104.19	1/2	2,800.82	1/2	2,497.46	1/2	2,194.57	1/2	1,891.79	1/2	1,589.00	1/2	1,286.22	1/2	983.44	1/2	680.65	1/2	382.56	1/2	80.13	1/2		1/2			
3/4	3,320.04	3/4	3,097.87	3/4	2,794.50	3/4	2,491.14	3/4	2,188.26	3/4	1,885.48	3/4	1,582.70	3/4	1,279.91	3/4	977.13	3/4	674.34	3/4	376.22	3/4	74.42	3/4		3/4			
7	3,318.47	7	3,091.55	7	2,788.18	7	2,484.82	7	2,181.96	7	1,879.17	7	1,576.39	7	1,273.60	7	970.82	7	668.04	7	369.88	7	68.71	7		7			
1/4	3,316.91	1/4	3,085.23	1/4	2,781.86	1/4	2,478.50	1/4	2,175.65	1/4	1,872.86	1/4	1,570.08	1/4	1,267.30	1/4	964.51	1/4	661.73	1/4	363.54	1/4	63.00	1/4		1/4			
1/2	3,315.35	1/2	3,078.91	1/2	2,775.54	1/2	2,472.18	1/2	2,169.34	1/2	1,866.56	1/2	1,563.77	1/2	1,260.99	1/2	958.20	1/2	655.42	1/2	357.20	1/2	57.29	1/2		1/2			
3/4	3,313.79	3/4	3,072.59	3/4	2,769.22	3/4	2,465.86	3/4	2,163.03	3/4	1,860.25	3/4	1,557.46	3/4	1,254.68	3/4	951.90	3/4	649.11	3/4	350.86	3/4	51.58	3/4		3/4			
8	3,311.59	8	3,066.27	8	2,762.90	8	2,459.54	8	2,156.72	8	1,853.94	8	1,551.16	8	1,248.37	8	945.59	8	642.80	8	344.52	8	46.03	8		8			
1/4	3,309.39	1/4	3,059.95	1/4	2,756.58	1/4	2,453.22	1/4	2,150.42	1/4	1,847.63	1/4	1,544.85	1/4	1,242.06	1/4	939.28	1/4	636.50	1/4	338.18	1/4	40.48	1/4		1/4			
1/2	3,307.19	1/2	3,053.63	1/2	2,750.26	1/2	2,446.90	1/2	2,144.11	1/2	1,841.32	1/2	1,538.54	1/2	1,235.76	1/2	932.97	1/2	630.19	1/2	331.84	1/2	34.94	1/2		1/2			
3/4	3,305.00	3/4	3,047.31	3/4	2,743.94	3/4	2,440.58	3/4	2,137.80	3/4	1,835.02	3/4	1,532.23	3/4	1,229.45	3/4	926.66	3/4	623.88	3/4	325.50	3/4	29.39	3/4		3/4			
9	3,302.17	9	3,040.99	9	2,737.62	9	2,434.28	9	2,131.49	9	1,828.71	9	1,525.92	9	1,223.14	9	920.36	9	617.57	9	319.16	9	25.43	9		9			
1/4	3,299.33	1/4	3,034.67	1/4	2,731.30	1/4	2,427.97	1/4	2,125.18	1/4	1,822.40	1/4	1,519.62	1/4	1,216.83	1/4	914.05	1/4	611.26	1/4	312.82	1/4	21.46	1/4		1/4			
1/2	3,296.50	1/2	3,028.35	1/2	2,724.98	1/2	2,421.66	1/2	2,118.88	1/2	1,816.09	1/2	1,513.31	1/2	1,210.52	1/2	907.74	1/2	604.96	1/2	306.48	1/2	17.50	1/2		1/2			
3/4	3,293.67	3/4	3,022.03	3/4	2,718.66	3/4	2,415.35	3/4	2,112.57	3/4	1,809.78	3/4	1,507.00	3/4	1,204.22	3/4	901.43	3/4	598.65	3/4	300.14	3/4	13.54	3/4		3/4			
10	3,290.20	10	3,015.70	10	2,712.34	10	2,409.04	10	2,106.26	10	1,803.48	10	1,500.69	10	1,197.91	10	895.12	10	592.34	10	293.80	10		10		10			
1/4	3,286.74	1/4	3,009.38	1/4	2,706.02	1/4	2,402.74	1/4	2,099.95	1/4	1,797.17	1/4	1,494.38	1/4	1,191.60	1/4	888.82	1/4	586.03	1/4	287.46	1/4		1/4		1/4			
1/2	3,283.27	1/2	3,003.06	1/2	2,699.70	1/2	2,396.43	1/2	2,093.64	1/2	1,790.86	1/2	1,488.08																