



INSPECTORATE

BARGE "HSM-3209"
HARDIN ST MARINE, LLC

OUTAGE TABLE

1 PORT

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

Table with 17 columns (0 FT. to 15 FT.) and multiple rows (0 to 11) showing capacity data in barrels of 42 U.S. gallons. Each cell contains a gauge height (e.g., 0, 1/4, 1/2, 3/4) and a corresponding capacity value.

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

STRAPPED: 03/06/2014

\* CAPACITY BELOW STRIKE POINT

REFERENCE GAUGE HEIGHT : 15'-9" (TO RIM OF 2" DIA. BALL VALVE LOCATED NEAR CENTER OF TANK)

WE CERTIFY ALL MEASUREMENTS AND COMPUTATIONS ARE IN ACCORDANCE WITH APPLICABLE API STANDARDS AND ARE TRUE AND CORRECT TO THE BEST OF OUR KNOWLEDGE.

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INSPECTORATE AMERICA CORPORATION



# BARGE "HSM-3209" HARDIN ST MARINE, LLC

**1 STAR**

## OUTAGE TABLE

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

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.		15 FT.			
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0		0	4,858.54	0	4,538.66	0	4,208.85	0	3,878.33	0	3,547.80	0	3,217.27	0	2,886.74	0	2,556.21	0	2,225.69	0	1,895.16	0	1,564.63	0	1,234.00	0	903.20	0	572.38	0	241.57		
1/4		1/4	4,853.47	1/4	4,531.79	1/4	4,201.97	1/4	3,871.44	1/4	3,540.91	1/4	3,210.38	1/4	2,879.86	1/4	2,549.33	1/4	2,218.80	1/4	1,888.27	1/4	1,557.74	1/4	1,227.11	1/4	896.31	1/4	565.49	1/4	234.68		
1/2		1/2	4,848.41	1/2	4,524.93	1/2	4,195.08	1/2	3,864.55	1/2	3,534.03	1/2	3,203.50	1/2	2,872.97	1/2	2,542.44	1/2	2,211.91	1/2	1,881.39	1/2	1,550.86	1/2	1,220.22	1/2	889.42	1/2	558.60	1/2	227.78		
3/4		3/4	4,843.34	3/4	4,518.06	3/4	4,188.20	3/4	3,857.67	3/4	3,527.14	3/4	3,196.61	3/4	2,866.08	3/4	2,535.56	3/4	2,205.03	3/4	1,874.50	3/4	1,543.97	3/4	1,213.32	3/4	882.52	3/4	551.71	3/4	220.89		
1		1	4,838.28	1	4,511.20	1	4,181.31	1	3,850.78	1	3,520.25	1	3,189.73	1	2,859.20	1	2,528.67	1	2,198.14	1	1,867.61	1	1,537.09	1	1,206.43	1	875.63	1	544.82	1	214.00		
1/4		1/4	4,832.01	1/4	4,504.34	1/4	4,174.42	1/4	3,843.90	1/4	3,513.37	1/4	3,182.84	1/4	2,852.31	1/4	2,521.78	1/4	2,191.26	1/4	1,860.73	1/4	1,530.20	1/4	1,199.54	1/4	868.74	1/4	537.92	1/4	207.11		
1/2		1/2	4,825.75	1/2	4,497.47	1/2	4,167.54	1/2	3,837.01	1/2	3,506.48	1/2	3,175.95	1/2	2,845.43	1/2	2,514.90	1/2	2,184.37	1/2	1,853.84	1/2	1,523.31	1/2	1,192.65	1/2	861.85	1/2	531.03	1/2	200.22		
3/4		3/4	4,819.48	3/4	4,490.61	3/4	4,160.65	3/4	3,830.12	3/4	3,499.60	3/4	3,169.07	3/4	2,838.54	3/4	2,508.01	3/4	2,177.48	3/4	1,846.96	3/4	1,515.43	3/4	1,185.76	3/4	854.96	3/4	524.14	3/4	193.32		
2		2	4,813.22	2	4,483.74	2	4,153.77	2	3,823.24	2	3,492.71	2	3,162.18	2	2,831.65	2	2,501.13	2	2,170.60	2	1,840.07	2	1,509.54	2	1,178.87	2	848.06	2	517.25	2	186.43		
1/4		1/4	4,806.35	1/4	4,476.88	1/4	4,146.88	1/4	3,816.35	1/4	3,485.82	1/4	3,155.30	1/4	2,824.77	1/4	2,494.24	1/4	2,163.71	1/4	1,833.18	1/4	1,502.66	1/4	1,171.98	1/4	841.17	1/4	510.36	1/4	179.54		
1/2		1/2	4,799.49	1/2	4,470.02	1/2	4,139.99	1/2	3,809.47	1/2	3,478.94	1/2	3,148.41	1/2	2,817.88	1/2	2,487.35	1/2	2,156.83	1/2	1,826.30	1/2	1,495.77	1/2	1,165.09	1/2	834.28	1/2	503.46	1/2	172.65		
3/4		3/4	4,792.62	3/4	4,463.15	3/4	4,133.11	3/4	3,802.58	3/4	3,472.05	3/4	3,141.52	3/4	2,811.00	3/4	2,480.47	3/4	2,149.94	3/4	1,819.41	3/4	1,488.88	3/4	1,158.20	3/4	827.39	3/4	496.57	3/4	165.76		
3		3	4,785.76	3	4,456.29	3	4,126.22	3	3,795.69	3	3,465.17	3	3,134.64	3	2,804.11	3	2,473.58	3	2,143.05	3	1,812.53	3	1,482.00	3	1,151.31	3	820.50	3	489.68	3	158.86		
1/4		1/4	4,778.90	1/4	4,449.42	1/4	4,119.34	1/4	3,788.81	1/4	3,458.28	1/4	3,127.75	1/4	2,797.22	1/4	2,466.70	1/4	2,136.17	1/4	1,805.64	1/4	1,475.11	1/4	1,144.41	1/4	813.60	1/4	482.79	1/4	151.97		
1/2		1/2	4,772.03	1/2	4,442.56	1/2	4,112.45	1/2	3,781.92	1/2	3,451.39	1/2	3,120.87	1/2	2,790.34	1/2	2,459.81	1/2	2,129.28	1/2	1,798.75	1/2	1,468.23	1/2	1,137.52	1/2	806.71	1/2	475.90	1/2	145.08		
3/4		3/4	4,765.17	3/4	4,435.70	3/4	4,105.56	3/4	3,775.04	3/4	3,444.51	3/4	3,113.98	3/4	2,783.45	3/4	2,452.92	3/4	2,122.40	3/4	1,791.87	3/4	1,461.34	3/4	1,130.63	3/4	799.82	3/4	469.00	3/4	138.19		
4		4	4,758.30	4	4,428.83	4	4,098.68	4	3,768.15	4	3,437.62	4	3,107.09	4	2,776.57	4	2,446.04	4	2,115.51	4	1,784.98	4	1,454.45	4	1,123.74	4	792.93	4	462.11	4	131.30		
1/4		1/4	4,751.44	1/4	4,421.97	1/4	4,091.79	1/4	3,761.26	1/4	3,430.74	1/4	3,100.21	1/4	2,769.68	1/4	2,439.15	1/4	2,108.62	1/4	1,778.10	1/4	1,447.57	1/4	1,116.85	1/4	786.04	1/4	455.22	1/4	124.40		
1/2		1/2	4,744.58	1/2	4,415.10	1/2	4,084.91	1/2	3,754.38	1/2	3,423.85	1/2	3,093.32	1/2	2,762.79	1/2	2,432.27	1/2	2,101.74	1/2	1,771.21	1/2	1,440.68	1/2	1,109.96	1/2	779.14	1/2	448.33	1/2	117.51		
3/4		3/4	4,737.71	3/4	4,408.24	3/4	4,078.02	3/4	3,747.49	3/4	3,416.96	3/4	3,086.44	3/4	2,755.91	3/4	2,425.38	3/4	2,094.85	3/4	1,764.32	3/4	1,433.80	3/4	1,103.07	3/4	772.25	3/4	441.44	3/4	110.62		
5		5	4,730.85	5	4,401.38	5	4,071.13	5	3,740.61	5	3,410.08	5	3,079.55	5	2,749.02	5	2,418.49	5	2,087.97	5	1,757.44	5	1,426.91	5	1,096.18	5	765.36	5	434.54	5	103.73		
1/4		1/4	4,723.98	1/4	4,394.51	1/4	4,064.25	1/4	3,733.72	1/4	3,403.19	1/4	3,072.66	1/4	2,742.14	1/4	2,411.61	1/4	2,081.08	1/4	1,750.55	1/4	1,420.02	1/4	1,089.28	1/4	758.47	1/4	427.65	1/4	96.84		
1/2		1/2	4,717.12	1/2	4,387.65	1/2	4,057.36	1/2	3,726.83	1/2	3,396.31	1/2	3,065.78	1/2	2,735.25	1/2	2,404.72	1/2	2,074.19	1/2	1,743.67	1/2	1,413.14	1/2	1,082.39	1/2	751.58	1/2	420.76	1/2	89.94		
3/4		3/4	4,710.26	3/4	4,380.78	3/4	4,050.48	3/4	3,719.95	3/4	3,389.42	3/4	3,058.89	3/4	2,728.36	3/4	2,397.84	3/4	2,067.31	3/4	1,736.78	3/4	1,406.25	3/4	1,075.50	3/4	744.68	3/4	413.87	3/4	83.05		
6		6	4,703.39	6	4,373.92	6	4,043.59	6	3,713.06	6	3,382.53	6	3,052.01	6	2,721.48	6	2,390.95	6	2,060.42	6	1,729.89	6	1,399.37	6	1,068.61	6	737.79	6	406.98	6	76.16		
1/4		1/4	4,696.53	1/4	4,367.06	1/4	4,036.70	1/4	3,706.18	1/4	3,375.65	1/4	3,045.12	1/4	2,714.59	1/4	2,384.06	1/4	2,053.54	1/4	1,723.01	1/4	1,392.48	1/4	1,061.72	1/4	730.90	1/4	400.08	1/4	69.27		
1/2		1/2	4,689.66	1/2	4,360.19	1/2	4,029.82	1/2	3,699.29	1/2	3,368.76	1/2	3,038.23	1/2	2,707.71	1/2	2,377.18	1/2	2,046.65	1/2	1,716.12	1/2	1,385.59	1/2	1,054.82	1/2	724.01	1/2	393.19	1/2	62.38		
3/4		3/4	4,682.80	3/4	4,353.33	3/4	4,022.93	3/4	3,692.40	3/4	3,361.88	3/4	3,031.35	3/4	2,700.82	3/4	2,370.29	3/4	2,039.76	3/4	1,709.24	3/4	1,378.71	3/4	1,047.93	3/4	717.12	3/4	386.30	3/4	55.48		
7		7	4,675.94	7	4,346.46	7	4,016.05	7	3,685.52	7	3,354.99	7	3,024.46	7	2,693.93	7	2,363.41	7	2,032.88	7	1,702.35	7	1,371.82	7	1,041.04	7	710.22	7	379.41	7	49.45		
1/4		1/4	4,669.07	1/4	4,339.60	1/4	4,009.16	1/4	3,678.63	1/4	3,348.10	1/4	3,017.58	1/4	2,687.05	1/4	2,356.52	1/4	2,025.99	1/4	1,695.46	1/4	1,364.93	1/4	1,034.15	1/4	703.33	1/4	372.52	1/4	43.42		
1/2		1/2	4,662.21	1/2	4,332.74	1/2	4,002.27	1/2	3,671.75	1/2	3,341.22	1/2	3,010.69	1/2	2,680.16	1/2	2,349.63	1/2	2,019.11	1/2	1,688.58	1/2	1,358.04	1/2	1,027.26	1/2	696.44	1/2	365.62	1/2	37.39		
3/4		3/4	4,655.34	3/4	4,325.87	3/4	3,995.39	3/4	3,664.86	3/4	3,334.33	3/4	3,003.80	3/4	2,673.28	3/4	2,342.75	3/4	2,012.22	3/4	1,681.69	3/4	1,351.14	3/4	1,020.36	3/4	689.55	3/4	358.73	3/4	31.36		
8		8	4,648.48	8	4,319.01	8	3,988.50	8	3,657.97	8	3,327.45	8	2,996.92	8	2,666.39	8	2,335.86	8	2,005.33	8	1,674.81	8	1,344.25	8	1,013.47	8	682.66	8	351.84	8	27.05		
1/4	4,891.82	1/4	4,641.62	1/4	4,312.14	1/4	3,981.62	1/4	3,651.09	1/4	3,320.56	1/4	2,990.03	1/4	2,659.50	1/4	2,328.98	1/4	1,998.45	1/4	1,667.92	1/4	1,337.36	1/4	1,006.58	1/4	675.76	1/4	344.95	1/4	22.74		
1/2	4,891.40	1/2	4,634.75	1/2	4,305.26	1/2	3,974.73	1/2	3,644.20	1/2	3,313.67	1/2	2,983.15	1/2	2,652.62	1/2	2,322.09	1/2															



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2 PORT

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Table with columns for gauge height (0 FT. to 15 FT.) and corresponding capacity values in barrels. Includes sub-columns for 1/4, 1/2, and 3/4 inch increments for each foot.

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

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## OUTAGE TABLE

2 STAR

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	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.	15 FT.
0		5,453.36	5,105.69	4,736.75	4,366.33	3,995.91	3,625.50	3,255.08	2,884.67	2,514.25	2,143.83	1,773.42	1,403.18	1,033.22	663.24	293.25
1/4		5,449.03	5,098.01	4,729.03	4,358.61	3,988.20	3,617.78	3,247.36	2,876.95	2,506.53	2,136.12	1,765.70	1,395.47	1,025.51	655.53	285.54
1/2		5,444.71	5,093.33	4,721.31	4,350.90	3,980.48	3,610.06	3,239.65	2,869.23	2,498.82	2,128.40	1,757.98	1,387.77	1,017.80	647.82	277.84
3/4		5,440.38	5,082.66	4,713.59	4,343.18	3,972.76	3,602.35	3,231.93	2,861.51	2,491.10	2,120.68	1,750.27	1,380.06	1,010.10	640.11	270.13
1		5,434.72	5,074.98	4,705.88	4,335.46	3,965.05	3,594.63	3,224.21	2,853.80	2,483.38	2,112.97	1,742.55	1,372.35	1,002.39	632.40	262.42
1/4		5,429.05	5,067.31	4,698.16	4,327.74	3,957.33	3,586.91	3,216.50	2,846.08	2,475.66	2,105.25	1,734.83	1,364.65	994.68	624.70	254.71
1/2		5,423.39	5,059.63	4,690.44	4,320.03	3,949.61	3,579.20	3,208.78	2,838.36	2,467.95	2,097.53	1,727.12	1,356.94	986.97	616.99	247.00
3/4		5,417.72	5,051.95	4,682.73	4,312.31	3,941.90	3,571.48	3,201.06	2,830.65	2,460.23	2,089.81	1,719.40	1,349.23	979.26	609.28	239.30
2		5,410.72	5,044.28	4,675.01	4,304.59	3,934.18	3,563.76	3,193.35	2,822.93	2,452.51	2,082.10	1,711.68	1,341.53	971.56	601.57	231.59
1/4		5,403.71	5,036.60	4,667.29	4,296.88	3,926.46	3,556.05	3,185.63	2,815.21	2,444.80	2,074.38	1,703.96	1,333.82	963.85	593.86	223.88
1/2		5,396.70	5,028.93	4,659.58	4,289.16	3,918.74	3,548.33	3,177.91	2,807.50	2,437.08	2,066.66	1,696.25	1,326.11	956.14	586.16	216.17
3/4		5,389.70	5,021.25	4,651.86	4,281.44	3,911.03	3,540.61	3,170.19	2,799.78	2,429.36	2,058.95	1,688.53	1,318.40	948.43	578.45	208.46
3		5,382.02	5,013.57	4,644.14	4,273.73	3,903.31	3,532.89	3,162.48	2,792.06	2,421.65	2,051.23	1,680.81	1,310.70	940.72	570.74	200.76
1/4		5,374.35	5,005.90	4,636.42	4,266.01	3,895.59	3,525.18	3,154.76	2,784.34	2,413.93	2,043.51	1,673.10	1,302.99	933.02	563.03	193.05
1/2		5,366.67	4,998.22	4,628.71	4,258.29	3,887.88	3,517.46	3,147.04	2,776.63	2,406.21	2,035.80	1,665.38	1,295.28	925.31	555.32	185.34
3/4		5,358.99	4,990.55	4,620.99	4,250.58	3,880.16	3,509.74	3,139.33	2,768.91	2,398.49	2,028.08	1,657.66	1,287.58	917.60	547.62	177.63
4		5,351.32	4,982.87	4,613.27	4,242.86	3,872.44	3,502.03	3,131.61	2,761.19	2,390.78	2,020.36	1,649.95	1,279.87	909.89	539.91	169.92
1/4		5,343.64	4,975.19	4,605.56	4,235.14	3,864.73	3,494.31	3,123.89	2,753.48	2,383.06	2,012.64	1,642.23	1,272.16	902.18	532.20	162.22
1/2		5,335.97	4,967.52	4,597.84	4,227.42	3,857.01	3,486.59	3,116.18	2,745.76	2,375.34	2,004.93	1,634.51	1,264.46	894.48	524.49	154.51
3/4		5,328.29	4,959.84	4,590.12	4,219.71	3,849.29	3,478.88	3,108.46	2,738.04	2,367.63	1,997.21	1,626.79	1,256.75	886.77	516.78	146.80
5		5,320.61	4,952.17	4,582.41	4,211.99	3,841.57	3,471.16	3,100.74	2,730.33	2,359.91	1,989.49	1,619.08	1,249.04	879.06	509.08	139.09
1/4		5,312.94	4,944.49	4,574.69	4,204.27	3,833.86	3,463.44	3,093.02	2,722.61	2,352.19	1,981.78	1,611.36	1,241.33	871.35	501.37	131.38
1/2		5,305.26	4,936.81	4,566.97	4,196.56	3,826.14	3,455.72	3,085.31	2,714.89	2,344.48	1,974.06	1,603.64	1,233.63	863.64	493.66	123.68
3/4		5,297.59	4,929.14	4,559.25	4,188.84	3,818.42	3,448.01	3,077.59	2,707.17	2,336.76	1,966.34	1,595.93	1,225.92	855.94	485.95	115.97
6		5,289.91	4,921.46	4,551.54	4,181.12	3,810.71	3,440.29	3,069.87	2,699.46	2,329.04	1,958.63	1,588.21	1,218.21	848.23	478.24	108.26
1/4		5,282.23	4,913.79	4,543.82	4,173.41	3,802.99	3,432.57	3,062.16	2,691.74	2,321.32	1,950.91	1,580.49	1,210.50	840.52	470.54	100.55
1/2		5,274.56	4,906.11	4,536.10	4,165.69	3,795.27	3,424.86	3,054.44	2,684.02	2,313.61	1,943.19	1,572.78	1,202.80	832.81	462.83	92.84
3/4		5,266.88	4,898.43	4,528.39	4,157.97	3,787.56	3,417.14	3,046.72	2,676.31	2,305.89	1,935.47	1,565.06	1,195.09	825.10	455.12	85.14
7		5,259.21	4,890.76	4,520.67	4,150.25	3,779.84	3,409.42	3,039.01	2,668.59	2,298.17	1,927.76	1,557.34	1,187.38	817.40	447.41	77.43
1/4		5,251.53	4,883.08	4,512.95	4,142.54	3,772.12	3,401.71	3,031.29	2,660.87	2,290.46	1,920.04	1,549.62	1,179.67	809.69	439.70	69.72
1/2		5,243.85	4,875.41	4,505.24	4,134.82	3,764.40	3,393.99	3,023.57	2,653.16	2,282.74	1,912.32	1,541.91	1,171.96	801.98	432.00	62.01
3/4		5,236.18	4,867.73	4,497.52	4,127.10	3,756.69	3,386.27	3,015.85	2,645.44	2,275.02	1,904.61	1,534.20	1,164.26	794.27	424.29	55.27
8		5,228.50	4,860.05	4,489.80	4,119.39	3,748.97	3,378.55	3,008.14	2,637.72	2,267.31	1,896.89	1,526.49	1,156.55	786.56	416.58	48.52
1/4		5,220.83	4,852.38	4,482.08	4,111.67	3,741.25	3,370.84	3,000.42	2,630.00	2,259.59	1,889.17	1,518.79	1,148.84	778.86	408.87	41.78
1/2		5,213.15	4,844.70	4,474.37	4,103.95	3,733.54	3,363.12	2,992.70	2,622.29	2,251.87	1,881.46	1,511.08	1,141.13	771.15	401.16	35.03
3/4		5,205.47	4,837.03	4,466.65	4,096.24	3,725.82	3,355.40	2,984.99	2,614.57	2,244.15	1,873.74	1,503.37	1,133.42	763.44	393.46	30.21
9	5,477.61	5,197.80	4,829.35	4,458.93	4,088.52	3,718.10	3,347.69	2,977.27	2,606.85	2,236.44	1,866.02	1,495.67	1,125.72	755.73	385.75	25.40
1/4	5,477.14	5,190.12	4,821.63	4,451.22	4,080.80	3,710.39	3,339.97	2,969.55	2,599.14	2,228.72	1,858.30	1,487.96	1,118.01	748.02	378.04	20.58
1/2	5,476.67	5,182.45	4,813.92	4,443.50	4,073.08	3,702.67	3,332.25	2,961.84	2,591.42	2,221.00	1,850.59	1,480.25	1,110.30	740.32	370.33	15.76
3/4	5,476.19	5,174.77	4,806.20	4,435.78	4,065.37	3,694.95	3,324.53	2,954.12	2,583.70	2,213.29	1,842.87	1,472.54	1,102.59	732.61	362.62	
10	5,474.55	5,167.09	4,798.48	4,428.07	4,057.65	3,687.23	3,316.82	2,946.40	2,575.99	2,205.57	1,835.15	1,464.84	1,094.88	724.90	354.92	10
1/4	5,472.91	5,159.42	4,790.76	4,420.35	4,049.93	3,679.52	3,309.10	2,938.68	2,568.27	2,197.85	1,827.44	1,457.13	1,087.18	717.19	347.21	1/4
1/2	5,471.26	5,151.74	4,783.05	4,412.63	4,042.22	3,671.80	3,301.38	2,930.97	2,560.55	2,190.14	1,819.72	1,449.42	1,079.47	709.48	339.50	1/2
3/4	5,469.62	5,144.07	4,775.33	4,404.91	4,034.50	3,664.08	3,293.67	2,923.25	2,552.83	2,182.42	1,812.00	1,441.72	1,071.76	701.78	331.79	3/4
11	5,466.63	5,136.39	4,767.61	4,402.78	4,026.78	3,656.37	3,285.95	2,915.53	2,545.12	2,174.70	1,804.29	1,434.01	1,064.05	694.07	324.08	11
1/4	5,463.65	5,128.71	4,759.90	4,389.48	4,019.07	3,648.65	3,278.23	2,907.82	2,537.40	2,166.98	1,796.57	1,426.30	1,056.34	686.36	316.38	1/4
1/2	5,460.67	5,121.04	4,752.18	4,381.76	4,011.35	3,640.93	3,270.52	2,900.10	2,529.68	2,159.27	1,788.85	1,418.60	1,048.64	678.65	308.67	1/2
3/4	5,457.68	5,113.36	4,744.46	4,374.05	4,003.63	3,633.22	3,262.80	2,892.38	2,521.97	2,151.55	1,781.13	1,410.89	1,040.93	670.94	300.96	3/4

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

STRAPPED: 03/06/2014

REFERENCE GAUGE HEIGHT : 15'-9 1/2" (TO RIM OF 2" DIA. BALL VALVE LOCATED NEAR CENTER OF TANK)

WE CERTIFY ALL MEASUREMENTS AND COMPUTATIONS ARE IN ACCORDANCE WITH APPLICABLE API STANDARDS AND ARE TRUE AND CORRECT TO THE BEST OF OUR KNOWLEDGE.

INSPECTORATE AMERICA CORPORATION



# BARGE "HSM-3209" HARDIN ST MARINE, LLC

# 3 PORT OR STAR

## OUTAGE TABLE

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

	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.	15 FT.
0	0	4,863.13	4,615.80	4,358.17	4,099.45	3,840.73	3,581.72	3,233.62	2,861.43	2,489.24	2,117.05	1,744.86	1,375.02	1,008.47	641.89	275.32
1/4	1/4	4,860.12	4,610.44	4,352.78	4,094.06	3,835.34	3,576.18	3,225.87	2,853.68	2,481.49	2,109.29	1,737.10	1,367.39	1,000.83	634.26	267.68
1/2	1/2	4,856.17	4,605.09	4,347.39	4,088.67	3,829.95	3,570.30	3,218.12	2,845.92	2,473.73	2,101.54	1,729.35	1,359.75	993.19	626.62	260.04
3/4	3/4	4,852.22	4,599.73	4,342.00	4,083.28	3,824.56	3,564.43	3,210.36	2,838.17	2,465.98	2,093.79	1,721.59	1,352.12	985.56	618.98	252.41
1	1	4,848.27	4,594.37	4,336.61	4,077.89	3,819.17	3,558.55	3,202.61	2,830.42	2,458.22	2,086.03	1,713.84	1,344.48	977.92	611.34	244.77
1/4	1/4	4,844.32	4,589.01	4,331.22	4,072.50	3,813.78	3,552.67	3,194.85	2,822.66	2,450.47	2,078.28	1,706.09	1,336.84	970.28	603.71	237.13
1/2	1/2	4,839.43	4,583.65	4,325.83	4,067.11	3,808.39	3,546.40	3,187.10	2,814.91	2,442.72	2,070.52	1,698.33	1,329.21	962.65	596.07	229.49
3/4	3/4	4,834.54	4,578.30	4,320.44	4,061.72	3,803.00	3,540.13	3,179.35	2,807.15	2,434.96	2,062.77	1,690.58	1,321.57	955.01	588.43	221.86
2	2	4,829.65	4,572.94	4,315.05	4,056.33	3,797.61	3,533.86	3,171.59	2,799.40	2,427.21	2,055.02	1,682.82	1,313.94	947.37	580.80	214.22
1/4	1/4	4,824.76	4,567.58	4,309.66	4,050.94	3,792.22	3,527.59	3,163.84	2,791.65	2,419.45	2,047.26	1,675.07	1,306.30	939.74	573.16	206.58
1/2	1/2	4,819.41	4,562.22	4,304.27	4,045.55	3,786.83	3,520.93	3,156.08	2,783.89	2,411.70	2,039.51	1,667.32	1,298.66	932.10	565.52	198.95
3/4	3/4	4,814.05	4,556.86	4,298.88	4,040.16	3,781.44	3,514.27	3,148.33	2,776.14	2,403.95	2,031.75	1,659.56	1,291.03	924.46	557.89	191.31
3	3	4,808.69	4,551.51	4,293.49	4,034.77	3,776.05	3,507.61	3,140.58	2,768.38	2,396.19	2,024.00	1,651.81	1,283.39	916.82	550.25	183.67
1/4	1/4	4,803.33	4,546.15	4,288.10	4,029.38	3,770.66	3,500.95	3,132.82	2,760.63	2,388.44	2,016.25	1,644.05	1,275.76	909.19	542.61	176.04
1/2	1/2	4,797.97	4,540.79	4,282.71	4,023.99	3,765.27	3,493.90	3,125.07	2,752.88	2,380.68	2,008.49	1,636.30	1,268.12	901.55	534.97	168.40
3/4	3/4	4,792.62	4,535.43	4,277.32	4,018.60	3,759.88	3,486.85	3,117.31	2,745.12	2,372.93	2,000.74	1,628.55	1,260.48	893.91	527.34	160.76
4	4	4,787.26	4,530.07	4,271.93	4,013.21	3,754.49	3,479.80	3,109.56	2,737.37	2,365.18	1,992.98	1,620.79	1,252.85	886.28	519.70	153.12
1/4	1/4	4,781.90	4,524.72	4,266.54	4,007.82	3,749.10	3,472.75	3,101.81	2,729.61	2,357.42	1,985.23	1,613.04	1,245.21	878.64	512.06	145.49
1/2	1/2	4,776.54	4,519.36	4,261.15	4,002.43	3,743.71	3,465.31	3,094.05	2,721.86	2,349.67	1,977.48	1,605.28	1,237.58	871.00	504.43	137.85
3/4	3/4	4,771.18	4,514.00	4,255.76	3,997.04	3,738.32	3,457.87	3,086.30	2,714.11	2,341.91	1,969.72	1,597.53	1,229.94	863.37	496.79	130.21
5	5	4,765.83	4,508.64	4,250.37	3,991.65	3,732.93	3,450.42	3,078.54	2,706.35	2,334.16	1,961.97	1,589.78	1,222.30	855.73	489.15	122.58
1/4	1/4	4,760.47	4,503.28	4,244.98	3,986.26	3,727.54	3,442.98	3,070.79	2,698.60	2,326.41	1,954.21	1,582.02	1,214.67	848.09	481.52	114.94
1/2	1/2	4,755.11	4,497.93	4,239.59	3,980.87	3,722.15	3,435.23	3,063.04	2,690.84	2,318.65	1,946.46	1,574.27	1,207.03	840.45	473.88	107.30
3/4	3/4	4,749.75	4,492.57	4,234.20	3,975.48	3,716.76	3,427.47	3,055.28	2,683.09	2,310.90	1,938.71	1,566.51	1,199.39	832.82	466.24	99.67
6	6	4,744.39	4,487.21	4,228.81	3,970.09	3,711.37	3,419.72	3,047.53	2,675.34	2,303.14	1,930.95	1,558.76	1,191.76	825.18	458.60	92.03
1/4	1/4	4,739.04	4,481.85	4,223.42	3,964.70	3,705.98	3,411.97	3,039.77	2,667.58	2,295.39	1,923.20	1,551.01	1,184.12	817.54	450.97	84.39
1/2	1/2	4,733.68	4,476.49	4,218.03	3,959.31	3,700.59	3,404.21	3,032.02	2,659.83	2,287.64	1,915.44	1,543.25	1,176.48	809.91	443.33	76.75
3/4	3/4	4,728.32	4,471.14	4,212.64	3,953.92	3,695.20	3,396.46	3,024.27	2,652.07	2,279.88	1,907.69	1,535.50	1,168.85	802.27	435.69	69.12
7	7	4,722.96	4,465.78	4,207.25	3,948.53	3,689.81	3,388.70	3,016.51	2,644.32	2,272.13	1,899.94	1,527.74	1,161.21	794.63	428.06	61.48
1/4	1/4	4,717.60	4,460.42	4,201.86	3,943.14	3,684.42	3,380.95	3,008.76	2,636.57	2,264.37	1,892.18	1,520.11	1,153.57	787.00	420.42	54.79
1/2	1/2	4,712.25	4,455.06	4,196.47	3,937.75	3,679.03	3,373.20	3,001.00	2,628.81	2,256.62	1,884.43	1,512.47	1,145.93	779.36	412.78	48.11
3/4	3/4	4,706.89	4,449.70	4,191.08	3,932.36	3,673.64	3,365.44	2,993.25	2,621.06	2,248.87	1,876.67	1,504.84	1,138.30	771.72	405.15	41.42
8	8	4,701.53	4,444.35	4,185.69	3,926.97	3,668.25	3,357.69	2,985.50	2,613.30	2,241.11	1,868.92	1,497.20	1,130.66	764.08	397.51	34.73
1/4	1/4	4,696.17	4,438.99	4,180.30	3,921.58	3,662.86	3,349.93	2,977.74	2,605.55	2,233.36	1,861.17	1,489.56	1,123.02	756.45	389.87	29.96
1/2	1/2	4,885.95	4,690.81	4,433.63	4,174.91	3,916.19	3,657.47	3,342.18	2,969.99	2,597.80	2,225.60	1,853.41	1,481.93	748.81	382.23	25.18
3/4	3/4	4,885.64	4,685.46	4,428.24	4,169.52	3,910.80	3,652.08	3,334.43	2,962.23	2,590.04	2,217.85	1,845.66	1,474.29	741.17	374.60	20.40
9	9	4,885.32	4,680.10	4,422.85	4,164.13	3,905.41	3,646.69	3,326.67	2,954.48	2,582.29	2,210.10	1,837.90	1,466.66	733.54	366.96	15.62
1/4	1/4	4,885.01	4,674.74	4,417.46	4,158.74	3,900.02	3,641.30	3,318.92	2,946.73	2,574.53	2,202.34	1,830.15	1,459.02	725.90	359.32	10.14
1/2	1/2	4,883.87	4,669.38	4,412.07	4,153.35	3,894.63	3,635.91	3,311.16	2,938.97	2,566.78	2,194.59	1,822.40	1,451.38	718.26	351.69	5.12
3/4	3/4	4,882.74	4,664.02	4,406.68	4,147.96	3,889.24	3,630.52	3,303.41	2,931.22	2,559.03	2,186.83	1,814.64	1,443.75	710.63	344.05	0.14
10	10	4,881.60	4,658.67	4,401.29	4,142.57	3,883.85	3,625.13	3,295.66	2,923.46	2,551.27	2,179.08	1,806.89	1,436.11	702.99	336.41	0.14
1/4	1/4	4,880.46	4,653.31	4,395.90	4,137.18	3,878.46	3,619.74	3,287.90	2,915.71	2,543.52	2,171.33	1,799.13	1,428.48	695.35	328.78	0.14
1/2	1/2	4,878.39	4,647.95	4,390.51	4,131.79	3,873.07	3,614.35	3,280.15	2,907.96	2,535.76	2,163.57	1,791.38	1,420.84	687.71	321.14	0.14
3/4	3/4	4,876.32	4,642.59	4,385.12	4,126.40	3,867.68	3,608.96	3,272.39	2,900.20	2,528.01	2,155.82	1,783.63	1,413.20	680.08	313.50	0.14
11	11	4,874.24	4,637.23	4,379.73	4,121.01	3,862.29	3,603.57	3,264.64	2,892.45	2,520.26	2,148.06	1,775.87	1,405.57	672.44	305.86	0.14
1/4	1/4	4,872.17	4,631.88	4,374.34	4,115.62	3,856.90	3,598.18	3,256.89	2,884.69	2,512.50	2,140.31	1,768.12	1,397.93	664.80	298.23	0.14
1/2	1/2	4,869.16	4,626.52	4,368.95	4,110.23	3,851.51	3,592.79	3,249.13	2,876.94	2,504.75	2,132.56	1,760.36	1,390.30	657.17	290.59	0.14
3/4	3/4	4,866.14	4,621.16	4,363.56	4,104.84	3,846.12	3,587.25	3,241.38	2,869.19	2,496.99	2,124.80	1,752.61	1,382.66	649.53	282.95	0.14

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

STRAPPED: 03/06/2014

\* CAPACITY BELOW STRIKE POINT

REFERENCE GAUGE HEIGHT : 15'-9" (TO RIM OF 2" DIA. BALL VALVE LOCATED NEAR CENTER OF TANK)

WE CERTIFY ALL MEASUREMENTS AND COMPUTATIONS ARE IN ACCORDANCE WITH APPLICABLE API STANDARDS AND ARE TRUE AND CORRECT TO THE BEST OF OUR KNOWLEDGE.

  
INSPECTORATE AMERICA CORPORATION



BARGE "HSM-3209"
HARDIN ST MARINE, LLC
OUTAGE TABLE

1 PORT

INSPECTORATE

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

Table with columns for gauge height (2 FT. to 17 FT.) and rows for barge length (0 to 11). Each cell contains capacity values for different gauge heights (0, 1/4, 1/2, 3/4).

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

STRAPPED: 03/06/2014

\* CAPACITY BELOW STRIKE POINT

REFERENCE GAUGE HEIGHT : 17'-3 1/2" (GAUGE POINT LOCATED NEAR CENTER OF TANK)
GAUGE WITH HERMETIC TAPE ONLY.

WE CERTIFY ALL MEASUREMENTS AND COMPUTATIONS ARE IN ACCORDANCE WITH APPLICABLE API STANDARDS AND ARE TRUE AND CORRECT TO THE BEST OF OUR KNOWLEDGE.

Inspector signature and INSPECTORATE AMERICA CORPORATION logo.



**BARGE "HSM-3209"  
HARDIN ST MARINE, LLC  
OUTAGE TABLE**

**1 STAR**

**INSPECTORATE**

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

	2 FT.	3 FT.	4 FT.	5 FT.	6 FT.	7 FT.	8 FT.	9 FT.	10 FT.	11 FT.	12 FT.	13 FT.	14 FT.	15 FT.	16 FT.	17 FT.	
0	0	4,717.12	4,387.65	4,057.36	3,726.83	3,396.31	3,065.78	2,735.25	2,404.72	2,074.19	1,743.67	1,413.14	1,082.39	751.58	420.76	89.94	
1/4	1/4	4,710.26	4,380.78	4,050.48	3,719.95	3,389.42	3,058.89	2,728.36	2,397.84	2,067.31	1,736.78	1,406.25	1,075.50	744.68	413.87	83.05	
1/2	1/2	4,703.39	4,373.92	4,043.59	3,713.06	3,382.53	3,052.01	2,721.48	2,390.95	2,060.42	1,729.89	1,399.37	1,068.61	737.79	406.98	76.16	
3/4	3/4	4,696.53	4,367.06	4,036.70	3,706.18	3,375.65	3,045.12	2,714.59	2,384.06	2,053.54	1,723.01	1,392.48	1,061.72	730.90	400.08	69.27	
1	1	4,689.66	4,360.19	4,029.82	3,699.29	3,368.76	3,038.23	2,707.71	2,377.18	2,046.65	1,716.12	1,385.59	1,054.82	724.01	393.19	62.38	
1/4	1/4	4,682.80	4,353.33	4,022.93	3,692.40	3,361.88	3,031.35	2,700.82	2,370.29	2,039.76	1,709.24	1,378.71	1,047.93	717.12	386.30	55.48	
1/2	1/2	4,675.94	4,346.46	4,016.05	3,685.52	3,354.99	3,024.46	2,693.93	2,363.41	2,032.88	1,702.35	1,371.82	1,041.04	710.22	379.41	49.45	
3/4	3/4	4,669.07	4,339.60	4,009.16	3,674.63	3,348.10	3,017.58	2,687.05	2,356.52	2,025.99	1,695.46	1,364.93	1,034.15	703.33	372.52	43.42	
2	2	4,662.21	4,332.74	4,002.27	3,671.75	3,341.22	3,010.69	2,680.16	2,349.63	2,019.11	1,688.58	1,358.04	1,027.26	696.44	365.62	37.39	
1/4	1/4	4,655.34	4,325.87	3,995.39	3,664.86	3,334.33	3,003.80	2,673.28	2,342.75	2,012.22	1,681.69	1,351.14	1,020.36	689.55	358.73	31.36	
1/2	1/2	4,648.48	4,319.01	3,988.50	3,657.97	3,327.45	2,996.92	2,666.39	2,335.86	2,005.33	1,674.81	1,344.25	1,013.47	682.66	351.84	27.05	
3/4	3/4	4,891.82	4,641.62	4,312.14	3,981.62	3,651.09	3,320.56	2,990.03	2,659.50	2,328.98	1,998.45	1,667.92	1,337.36	675.76	344.95	22.74	
3	3	4,891.40	4,634.75	4,305.26	3,974.73	3,644.20	3,313.67	2,983.15	2,652.62	2,322.09	1,991.56	1,661.03	1,330.47	999.69	668.87	338.06	18.44
1/4	1/4	4,890.98	4,627.89	4,298.37	3,967.84	3,637.32	3,306.79	2,976.26	2,645.73	2,315.20	1,984.68	1,654.15	1,323.58	992.80	661.98	331.16	14.13
1/2	1/2	4,890.56	4,621.02	4,291.49	3,960.96	3,630.43	3,299.90	2,969.37	2,638.85	2,308.32	1,977.79	1,647.26	1,316.69	985.90	655.09	324.27	
3/4	3/4	4,889.09	4,614.16	4,284.60	3,954.07	3,623.54	3,293.02	2,962.49	2,631.96	2,301.43	1,970.90	1,640.38	1,309.80	979.01	648.20	317.38	
4	4	4,887.62	4,607.30	4,277.71	3,947.19	3,616.66	3,286.13	2,955.60	2,625.07	2,294.55	1,964.02	1,633.49	1,302.91	972.12	641.30	310.49	
1/4	1/4	4,886.15	4,600.43	4,270.83	3,940.30	3,609.77	3,279.24	2,948.72	2,618.19	2,287.66	1,957.13	1,626.60	1,296.02	965.23	634.41	303.60	
1/2	1/2	4,884.68	4,593.57	4,263.94	3,933.41	3,602.89	3,272.36	2,941.83	2,611.30	2,280.77	1,950.25	1,619.72	1,289.13	958.34	627.52	296.70	
3/4	3/4	4,882.01	4,586.70	4,257.06	3,924.53	3,596.00	3,265.47	2,934.94	2,604.42	2,273.89	1,943.36	1,612.83	1,282.23	951.44	620.63	289.81	
5	5	4,879.34	4,579.84	4,250.17	3,919.64	3,589.11	3,258.59	2,928.06	2,597.53	2,267.00	1,936.47	1,605.95	1,275.34	944.55	613.74	282.92	
1/4	1/4	4,876.68	4,572.98	4,243.28	3,912.76	3,582.23	3,251.70	2,921.17	2,590.64	2,260.12	1,929.59	1,599.06	1,268.45	937.66	606.84	276.03	
1/2	1/2	4,874.01	4,566.11	4,236.40	3,905.87	3,575.34	3,244.81	2,914.29	2,583.76	2,253.23	1,922.70	1,592.17	1,261.56	930.77	599.95	269.14	
3/4	3/4	4,870.14	4,559.25	4,229.51	3,898.98	3,568.46	3,237.93	2,907.40	2,576.87	2,246.34	1,915.82	1,585.29	1,254.67	923.88	593.06	262.24	
6	6	4,866.27	4,552.38	4,222.63	3,892.10	3,561.57	3,231.04	2,900.51	2,569.99	2,239.46	1,908.93	1,578.40	1,247.78	916.98	586.17	255.35	
1/4	1/4	4,862.41	4,545.52	4,215.74	3,885.21	3,554.68	3,224.16	2,893.63	2,563.10	2,232.57	1,902.04	1,571.52	1,240.89	910.09	579.28	248.46	
1/2	1/2	4,858.54	4,538.66	4,208.85	3,878.33	3,547.80	3,217.27	2,886.74	2,556.21	2,225.69	1,895.16	1,564.63	1,234.00	903.20	572.38	241.57	
3/4	3/4	4,853.47	4,531.79	4,201.97	3,871.44	3,540.91	3,210.38	2,879.86	2,549.33	2,218.80	1,888.27	1,557.74	1,227.11	896.31	565.49	234.68	
7	7	4,848.41	4,524.93	4,195.08	3,864.55	3,534.03	3,203.50	2,872.97	2,542.44	2,211.91	1,881.39	1,550.86	1,220.22	889.42	558.60	227.78	
1/4	1/4	4,843.34	4,518.06	4,188.20	3,857.67	3,527.14	3,196.61	2,866.08	2,535.56	2,205.03	1,874.50	1,543.97	1,213.32	882.52	551.71	220.89	
1/2	1/2	4,838.28	4,511.20	4,181.31	3,850.78	3,520.25	3,189.73	2,859.20	2,528.67	2,198.14	1,867.61	1,537.09	1,206.43	875.63	544.82	214.00	
3/4	3/4	4,832.01	4,504.34	4,174.42	3,843.90	3,513.37	3,182.84	2,852.31	2,521.78	2,191.26	1,860.73	1,530.20	1,199.54	868.74	537.92	207.11	
8	8	4,825.75	4,497.47	4,167.54	3,837.01	3,506.48	3,175.95	2,845.43	2,514.90	2,184.37	1,853.84	1,523.31	1,192.65	861.85	531.03	200.22	
1/4	1/4	4,819.48	4,490.61	4,160.65	3,830.12	3,499.60	3,169.07	2,838.54	2,508.01	2,177.48	1,846.96	1,516.43	1,185.76	854.96	524.14	193.32	
1/2	1/2	4,813.22	4,483.74	4,153.77	3,823.24	3,492.71	3,162.18	2,831.65	2,501.13	2,170.60	1,840.07	1,509.54	1,178.87	848.06	517.25	186.43	
3/4	3/4	4,806.35	4,476.88	4,146.88	3,816.35	3,485.82	3,155.30	2,824.77	2,494.24	2,163.71	1,833.18	1,502.66	1,171.98	841.17	510.36	179.54	
9	9	4,799.49	4,470.02	4,139.99	3,809.47	3,478.94	3,148.41	2,817.88	2,487.35	2,156.83	1,826.30	1,495.77	1,165.09	834.28	503.46	172.65	
1/4	1/4	4,792.62	4,463.15	4,133.11	3,802.58	3,472.05	3,141.52	2,811.00	2,480.47	2,149.94	1,819.41	1,488.88	1,158.20	827.39	496.57	165.76	
1/2	1/2	4,785.76	4,456.29	4,126.22	3,795.69	3,465.17	3,134.64	2,804.11	2,473.58	2,143.05	1,812.53	1,482.00	1,151.31	820.50	489.68	158.86	
3/4	3/4	4,778.90	4,449.42	4,119.34	3,788.81	3,458.28	3,127.75	2,797.22	2,466.70	2,136.17	1,805.64	1,475.11	1,144.41	813.60	482.79	151.97	
10	10	4,772.03	4,442.56	4,112.45	3,781.92	3,451.39	3,120.87	2,790.34	2,459.81	2,129.28	1,798.75	1,468.23	1,137.52	806.71	475.90	145.08	
1/4	1/4	4,765.17	4,435.70	4,105.56	3,775.04	3,444.51	3,113.98	2,783.45	2,452.92	2,122.40	1,791.87	1,461.34	1,130.63	799.82	469.00	138.19	
1/2	1/2	4,758.30	4,428.83	4,098.68	3,768.15	3,437.62	3,107.09	2,776.57	2,446.04	2,115.51	1,784.98	1,454.45	1,123.74	792.93	462.11	131.30	
3/4	3/4	4,751.44	4,421.97	4,091.79	3,761.26	3,430.74	3,100.21	2,769.68	2,439.15	2,108.62	1,778.10	1,447.57	1,116.85	786.04	455.22	124.40	
11	11	4,744.58	4,415.10	4,084.91	3,754.38	3,423.85	3,093.32	2,762.79	2,432.27	2,101.74	1,771.21	1,440.68	1,109.96	779.14	448.33	117.51	
1/4	1/4	4,737.71	4,408.24	4,078.02	3,747.49	3,416.96	3,086.44	2,755.91	2,425.38	2,094.85	1,764.32	1,433.80	1,103.07	772.25	441.44	110.62	
1/2	1/2	4,730.85	4,401.38	4,071.13	3,740.61	3,410.08	3,079.55	2,749.02	2,418.49	2,087.97	1,757.44	1,426.91	1,096.18	765.36	434.54	103.73	
3/4	3/4	4,723.98	4,394.51	4,064.25	3,733.72	3,403.19	3,072.66	2,742.14	2,411.61	2,081.08	1,750.55	1,420.02	1,089.28	758.47	427.65	96.84	

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

STRAPPED: 03/06/2014

\* CAPACITY BELOW STRIKE POINT

REFERENCE GAUGE HEIGHT : 17'-3 1/4" (GAUGE POINT LOCATED NEAR CENTER OF TANK)  
GAUGE WITH HERMETIC TAPE ONLY.

WE CERTIFY ALL MEASUREMENTS AND COMPUTATIONS ARE IN ACCORDANCE WITH APPLICABLE API STANDARDS AND ARE TRUE AND CORRECT TO THE BEST OF OUR KNOWLEDGE.

  
INSPECTORATE AMERICA CORPORATION



INSPECTORATE

# BARGE "HSM-3209" HARDIN ST MARINE, LLC

2 PORT

## OUTAGE TABLE

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

	2 FT.	3 FT.	4 FT.	5 FT.	6 FT.	7 FT.	8 FT.	9 FT.	10 FT.	11 FT.	12 FT.	13 FT.	14 FT.	15 FT.	16 FT.	17 FT.
0	0	5,289.91	0	4,921.46	0	4,551.54	0	4,181.12	0	3,810.71	0	3,440.29	0	3,069.87	0	2,699.46
1/4	1/4	5,282.23	1/4	4,913.79	1/4	4,543.82	1/4	4,173.41	1/4	3,802.99	1/4	3,432.57	1/4	3,062.16	1/4	2,691.74
1/2	1/2	5,274.56	1/2	4,906.11	1/2	4,536.10	1/2	4,165.69	1/2	3,795.27	1/2	3,424.86	1/2	3,054.44	1/2	2,684.02
3/4	3/4	5,266.88	3/4	4,898.43	3/4	4,528.39	3/4	4,157.97	3/4	3,787.56	3/4	3,417.14	3/4	3,046.72	3/4	2,676.31
1	1	5,259.21	1	4,890.76	1	4,520.67	1	4,150.25	1	3,779.84	1	3,409.42	1	3,039.01	1	2,668.59
1/4	1/4	5,251.53	1/4	4,883.08	1/4	4,512.95	1/4	4,142.54	1/4	3,772.12	1/4	3,401.71	1/4	3,031.29	1/4	2,660.87
1/2	1/2	5,243.85	1/2	4,875.41	1/2	4,505.24	1/2	4,134.82	1/2	3,764.40	1/2	3,393.99	1/2	3,023.57	1/2	2,653.16
3/4	3/4	5,236.18	3/4	4,867.73	3/4	4,497.52	3/4	4,127.10	3/4	3,756.69	3/4	3,386.27	3/4	3,015.85	3/4	2,645.44
2	2	5,228.50	2	4,860.05	2	4,489.80	2	4,119.39	2	3,748.97	2	3,378.55	2	3,008.14	2	2,637.72
1/4	1/4	5,220.83	1/4	4,852.38	1/4	4,482.08	1/4	4,111.67	1/4	3,741.25	1/4	3,370.84	1/4	3,000.42	1/4	2,630.00
1/2	1/2	5,213.15	1/2	4,844.70	1/2	4,474.37	1/2	4,103.95	1/2	3,733.54	1/2	3,363.12	1/2	2,992.70	1/2	2,622.29
3/4	3/4	5,205.47	3/4	4,837.03	3/4	4,466.65	3/4	4,096.24	3/4	3,725.82	3/4	3,355.40	3/4	2,984.99	3/4	2,614.57
3	3	5,197.80	3	4,829.35	3	4,458.93	3	4,088.52	3	3,718.10	3	3,347.69	3	2,977.27	3	2,606.85
1/4	1/4	5,190.12	1/4	4,821.63	1/4	4,451.22	1/4	4,080.80	1/4	3,710.39	1/4	3,339.97	1/4	2,969.55	1/4	2,599.14
1/2	1/2	5,182.45	1/2	4,813.92	1/2	4,443.50	1/2	4,073.08	1/2	3,702.67	1/2	3,332.25	1/2	2,961.84	1/2	2,591.42
3/4	3/4	5,174.77	3/4	4,806.20	3/4	4,435.78	3/4	4,065.37	3/4	3,694.95	3/4	3,324.53	3/4	2,954.12	3/4	2,583.70
4	4	5,167.09	4	4,798.48	4	4,428.07	4	4,057.65	4	3,687.23	4	3,316.82	4	2,946.40	4	2,575.99
1/4	1/4	5,172.91	1/4	4,790.76	1/4	4,420.35	1/4	4,049.93	1/4	3,679.52	1/4	3,309.10	1/4	2,938.68	1/4	2,568.27
1/2	1/2	5,171.26	1/2	4,783.05	1/2	4,412.63	1/2	4,042.22	1/2	3,671.80	1/2	3,301.38	1/2	2,930.97	1/2	2,560.55
3/4	3/4	5,169.62	3/4	4,775.33	3/4	4,404.91	3/4	4,034.50	3/4	3,664.08	3/4	3,293.67	3/4	2,923.25	3/4	2,552.83
5	5	5,163.39	5	4,767.61	5	4,397.20	5	4,026.78	5	3,656.37	5	3,285.95	5	2,915.53	5	2,545.12
1/4	1/4	5,163.65	1/4	4,759.90	1/4	4,389.48	1/4	4,019.07	1/4	3,648.65	1/4	3,278.23	1/4	2,907.82	1/4	2,537.40
1/2	1/2	5,160.67	1/2	4,752.18	1/2	4,381.76	1/2	4,011.35	1/2	3,640.93	1/2	3,270.52	1/2	2,900.10	1/2	2,529.68
3/4	3/4	5,157.68	3/4	4,744.46	3/4	4,374.05	3/4	4,003.63	3/4	3,633.22	3/4	3,262.80	3/4	2,892.38	3/4	2,521.97
6	6	5,105.69	6	4,736.75	6	4,366.33	6	3,995.91	6	3,625.50	6	3,255.08	6	2,884.67	6	2,514.25
1/4	1/4	5,109.03	1/4	4,729.03	1/4	4,358.61	1/4	3,988.20	1/4	3,617.78	1/4	3,247.36	1/4	2,876.95	1/4	2,506.53
1/2	1/2	5,106.71	1/2	4,721.31	1/2	4,350.90	1/2	3,980.48	1/2	3,610.06	1/2	3,239.65	1/2	2,869.23	1/2	2,498.82
3/4	3/4	5,104.38	3/4	4,713.59	3/4	4,343.18	3/4	3,972.76	3/4	3,602.35	3/4	3,231.93	3/4	2,861.51	3/4	2,491.10
7	7	5,074.98	7	4,705.88	7	4,335.46	7	3,965.05	7	3,594.63	7	3,224.21	7	2,853.80	7	2,483.38
1/4	1/4	5,079.21	1/4	4,701.11	1/4	4,330.69	1/4	3,960.28	1/4	3,590.86	1/4	3,220.44	1/4	2,849.03	1/4	2,479.55
1/2	1/2	5,076.94	1/2	4,696.44	1/2	4,326.03	1/2	3,956.61	1/2	3,587.19	1/2	3,216.77	1/2	2,845.27	1/2	2,475.79
3/4	3/4	5,074.67	3/4	4,691.73	3/4	4,321.32	3/4	3,952.90	3/4	3,583.50	3/4	3,213.00	3/4	2,841.51	3/4	2,472.01
8	8	5,044.28	8	4,675.01	8	4,304.59	8	3,934.18	8	3,563.76	8	3,193.35	8	2,822.93	8	2,462.51
1/4	1/4	5,048.51	1/4	4,670.24	1/4	4,299.82	1/4	3,929.81	1/4	3,559.35	1/4	3,189.58	1/4	2,818.16	1/4	2,458.04
1/2	1/2	5,046.24	1/2	4,665.53	1/2	4,295.11	1/2	3,925.10	1/2	3,554.64	1/2	3,184.81	1/2	2,813.39	1/2	2,453.27
3/4	3/4	5,043.97	3/4	4,660.82	3/4	4,290.40	3/4	3,920.39	3/4	3,550.93	3/4	3,181.04	3/4	2,808.62	3/4	2,448.50
9	9	5,013.57	9	4,644.14	9	4,273.73	9	3,903.31	9	3,532.89	9	3,162.48	9	2,792.06	9	2,421.65
1/4	1/4	5,017.80	1/4	4,639.37	1/4	4,268.96	1/4	3,898.54	1/4	3,528.12	1/4	3,158.71	1/4	2,787.29	1/4	2,416.88
1/2	1/2	5,015.53	1/2	4,634.62	1/2	4,264.21	1/2	3,893.77	1/2	3,523.35	1/2	3,154.96	1/2	2,782.52	1/2	2,412.11
3/4	3/4	5,013.26	3/4	4,629.87	3/4	4,259.50	3/4	3,889.00	3/4	3,518.59	3/4	3,151.21	3/4	2,777.75	3/4	2,407.34
10	10	5,013.57	10	4,613.27	10	4,242.86	10	3,872.44	10	3,502.03	10	3,131.61	10	2,761.19	10	2,390.78
1/4	1/4	5,017.80	1/4	4,608.50	1/4	4,238.10	1/4	3,867.68	1/4	3,497.27	1/4	3,127.85	1/4	2,756.42	1/4	2,385.91
1/2	1/2	5,015.53	1/2	4,603.75	1/2	4,233.35	1/2	3,862.91	1/2	3,492.50	1/2	3,124.00	1/2	2,751.65	1/2	2,381.04
3/4	3/4	5,013.26	3/4	4,599.00	3/4	4,228.60	3/4	3,858.14	3/4	3,487.73	3/4	3,120.15	3/4	2,746.88	3/4	2,376.17
11	11	5,013.57	11	4,613.27	11	4,242.86	11	3,872.44	11	3,502.03	11	3,131.61	11	2,761.19	11	2,390.78
1/4	1/4	5,017.80	1/4	4,608.50	1/4	4,238.10	1/4	3,867.68	1/4	3,497.27	1/4	3,127.85	1/4	2,756.42	1/4	2,385.91
1/2	1/2	5,015.53	1/2	4,603.75	1/2	4,233.35	1/2	3,862.91	1/2	3,492.50	1/2	3,124.00	1/2	2,751.65	1/2	2,381.04
3/4	3/4	5,013.26	3/4	4,599.00	3/4	4,228.60	3/4	3,858.14	3/4	3,487.73	3/4	3,120.15	3/4	2,746.88	3/4	2,376.17
12	12	5,013.57	12	4,613.27	12	4,242.86	12	3,872.44	12	3,502.03	12	3,131.61	12	2,761.19	12	2,390.78
1/4	1/4	5,017.80	1/4	4,608.50	1/4	4,238.10	1/4	3,867.68	1/4	3,497.27	1/4	3,127.85	1/4	2,756.42	1/4	2,385.91
1/2	1/2	5,015.53	1/2	4,603.75	1/2	4,233.35	1/2	3,862.91	1/2	3,492.50	1/2	3,124.00	1/2	2,751.65	1/2	2,381.04
3/4	3/4	5,013.26	3/4	4,599.00	3/4	4,228.60	3/4	3,858.14	3/4	3,487.73	3/4	3,120.15	3/4	2,746.88	3/4	2,376.17
13	13	5,013.57	13	4,613.27	13	4,242.86	13	3,872.44	13	3,502.03	13	3,131.61	13	2,761.19	13	2,390.78
1/4	1/4	5,017.80	1/4	4,608.50	1/4	4,238.10	1/4	3,867.68	1/4	3,497.27	1/4	3,127.85	1/4	2,756.42	1/4	2,385.91
1/2	1/2	5,015.53	1/2	4,603.75	1/2	4,233.35	1/2	3,862.91	1/2	3,492.50	1/2	3,124.00	1/2	2,751.65	1/2	2,381.04
3/4	3/4	5,013.26	3/4	4,599.00	3/4	4,228.60	3/4	3,858.14	3/4	3,487.73	3/4	3,120.15	3/4	2,746.88	3/4	2,376.17
14	14	5,013.57	14	4,613.27	14	4,242.86	14	3,872.44	14	3,502.03	14	3,131.61	14	2,761.19	14	2,390.78
1/4	1/4	5,017.80	1/4	4,608.50	1/4	4,238.10	1/4	3,867.68	1/4	3,497.27	1/4	3,127.85	1/4	2,756.42	1/4	2,385.91
1/2	1/2	5,015.53	1/2	4,603.75	1/2	4,233.35	1/2	3,862.91	1/2	3,492.50	1/2	3,124.00	1/2	2,751.65	1/2	2,381.04
3/4	3/4	5,013.26	3/4	4,599.00	3/4	4,228.60	3/4	3,858.14	3/4	3,487.73	3/4	3,120.15	3/4	2,746.88	3/4	2,376.17
15	15	5,013.57	15	4,613.27	15	4,242.86	15	3								





INSPECTORATE

## BARGE "HSM-3209" HARDIN ST MARINE, LLC OUTAGE TABLE

**2 STAR**

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

2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.		10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.			
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0		0	5,305.26	0	4,936.81	0	4,566.97	0	4,196.56	0	3,826.14	0	3,455.72	0	3,085.31	0	2,714.89	0	2,344.48	0	1,974.06	0	1,603.64	0	1,233.63	0	863.64	0	493.66	0	123.68		
1/4		1/4	5,297.59	1/4	4,929.14	1/4	4,559.25	1/4	4,188.84	1/4	3,818.42	1/4	3,448.01	1/4	3,077.59	1/4	2,707.17	1/4	2,336.76	1/4	1,966.34	1/4	1,595.93	1/4	1,225.92	1/4	855.94	1/4	485.95	1/4	115.97		
1/2		1/2	5,289.91	1/2	4,921.46	1/2	4,551.54	1/2	4,181.12	1/2	3,810.71	1/2	3,440.29	1/2	3,069.87	1/2	2,699.46	1/2	2,329.04	1/2	1,958.63	1/2	1,588.21	1/2	1,218.21	1/2	848.23	1/2	478.24	1/2	108.26		
3/4		3/4	5,282.23	3/4	4,913.79	3/4	4,543.82	3/4	4,173.41	3/4	3,802.99	3/4	3,432.57	3/4	3,062.16	3/4	2,691.74	3/4	2,321.32	3/4	1,950.91	3/4	1,580.49	3/4	1,210.50	3/4	840.52	3/4	470.54	3/4	100.55		
1		1	5,274.56	1	4,906.11	1	4,536.10	1	4,165.69	1	3,795.27	1	3,424.86	1	3,054.44	1	2,684.02	1	2,313.61	1	1,943.19	1	1,572.78	1	1,202.80	1	832.81	1	462.83	1	92.84		
1/4		1/4	5,266.88	1/4	4,898.43	1/4	4,528.39	1/4	4,157.97	1/4	3,787.56	1/4	3,417.14	1/4	3,046.72	1/4	2,676.31	1/4	2,305.89	1/4	1,935.47	1/4	1,565.06	1/4	1,195.09	1/4	825.10	1/4	455.12	1/4	85.14		
1/2		1/2	5,259.21	1/2	4,890.76	1/2	4,520.67	1/2	4,150.25	1/2	3,779.84	1/2	3,409.42	1/2	3,039.01	1/2	2,668.59	1/2	2,298.17	1/2	1,927.76	1/2	1,557.34	1/2	1,187.38	1/2	817.40	1/2	447.41	1/2	77.43		
3/4		3/4	5,251.53	3/4	4,883.08	3/4	4,512.95	3/4	4,142.54	3/4	3,772.12	3/4	3,401.71	3/4	3,031.29	3/4	2,660.87	3/4	2,290.46	3/4	1,920.04	3/4	1,549.62	3/4	1,179.67	3/4	809.69	3/4	439.70	3/4	69.72		
2		2	5,243.85	2	4,875.41	2	4,505.24	2	4,134.82	2	3,764.40	2	3,393.99	2	3,023.57	2	2,653.16	2	2,282.74	2	1,912.32	2	1,541.91	2	1,171.96	2	801.98	2	432.00	2	62.01		
1/4		1/4	5,236.18	1/4	4,867.73	1/4	4,497.52	1/4	4,127.10	1/4	3,756.69	1/4	3,386.27	1/4	3,015.85	1/4	2,645.44	1/4	2,275.02	1/4	1,904.61	1/4	1,534.20	1/4	1,164.26	1/4	794.27	1/4	424.29	1/4	55.27		
1/2		1/2	5,228.50	1/2	4,860.05	1/2	4,489.80	1/2	4,119.39	1/2	3,748.97	1/2	3,378.55	1/2	3,008.14	1/2	2,637.72	1/2	2,267.31	1/2	1,896.89	1/2	1,526.49	1/2	1,156.55	1/2	786.56	1/2	416.58	1/2	48.52		
3/4		3/4	5,220.83	3/4	4,852.38	3/4	4,482.08	3/4	4,111.67	3/4	3,741.25	3/4	3,370.84	3/4	3,000.42	3/4	2,630.00	3/4	2,259.59	3/4	1,889.17	3/4	1,518.79	3/4	1,148.84	3/4	778.86	3/4	408.87	3/4	41.78		
3		3	5,213.15	3	4,844.70	3	4,474.37	3	4,103.95	3	3,733.54	3	3,363.12	3	2,992.70	3	2,622.29	3	2,251.87	3	1,881.46	3	1,511.08	3	1,141.13	3	771.15	3	401.16	3	35.03		
1/4		1/4	5,205.47	1/4	4,837.03	1/4	4,466.65	1/4	4,096.24	1/4	3,725.82	1/4	3,355.40	1/4	2,984.99	1/4	2,614.57	1/4	2,244.15	1/4	1,873.74	1/4	1,503.37	1/4	1,133.42	1/4	763.44	1/4	393.46	1/4	30.21		
1/2		1/2	5,477.61	1/2	5,197.80	1/2	4,829.35	1/2	4,458.93	1/2	4,088.52	1/2	3,718.10	1/2	3,347.69	1/2	2,977.27	1/2	2,606.85	1/2	2,236.44	1/2	1,866.02	1/2	1,495.67	1/2	1,125.72	1/2	755.73	1/2	385.75	1/2	25.40
3/4		3/4	5,477.14	3/4	5,190.12	3/4	4,821.63	3/4	4,451.22	3/4	4,080.80	3/4	3,710.39	3/4	3,339.97	3/4	2,969.55	3/4	2,599.14	3/4	2,228.72	3/4	1,858.30	3/4	1,487.96	3/4	1,118.01	3/4	748.02	3/4	378.04	3/4	20.58
4		4	5,476.67	4	5,182.45	4	4,813.92	4	4,443.50	4	4,073.08	4	3,702.67	4	3,332.25	4	2,961.84	4	2,591.42	4	2,221.00	4	1,850.59	4	1,480.25	4	1,110.30	4	740.32	4	370.33	4	15.76
1/4		1/4	5,476.19	1/4	5,174.77	1/4	4,806.20	1/4	4,435.78	1/4	4,065.37	1/4	3,694.95	1/4	3,324.53	1/4	2,954.12	1/4	2,583.70	1/4	2,213.29	1/4	1,842.87	1/4	1,472.54	1/4	1,102.59	1/4	732.61	1/4	362.62		
1/2		1/2	5,474.55	1/2	5,167.09	1/2	4,798.48	1/2	4,428.07	1/2	4,057.65	1/2	3,687.23	1/2	3,316.82	1/2	2,946.40	1/2	2,575.99	1/2	2,205.57	1/2	1,835.15	1/2	1,464.84	1/2	1,094.88	1/2	724.90	1/2	354.92		
3/4		3/4	5,472.91	3/4	5,159.42	3/4	4,790.76	3/4	4,420.35	3/4	4,049.93	3/4	3,679.52	3/4	3,309.10	3/4	2,938.68	3/4	2,568.27	3/4	2,197.85	3/4	1,827.44	3/4	1,457.13	3/4	1,087.18	3/4	717.19	3/4	347.21		
5		5	5,471.26	5	5,151.74	5	4,783.05	5	4,412.63	5	4,042.22	5	3,671.80	5	3,301.38	5	2,930.97	5	2,560.55	5	2,190.14	5	1,819.72	5	1,449.42	5	1,079.47	5	709.48	5	339.50		
1/4		1/4	5,469.62	1/4	5,144.07	1/4	4,775.33	1/4	4,404.91	1/4	4,034.50	1/4	3,664.08	1/4	3,293.67	1/4	2,923.25	1/4	2,552.83	1/4	2,182.42	1/4	1,812.00	1/4	1,441.72	1/4	1,071.76	1/4	701.78	1/4	331.79		
1/2		1/2	5,466.63	1/2	5,136.39	1/2	4,767.61	1/2	4,397.20	1/2	4,026.78	1/2	3,656.37	1/2	3,285.95	1/2	2,915.53	1/2	2,545.12	1/2	2,174.70	1/2	1,804.29	1/2	1,434.01	1/2	1,064.05	1/2	694.07	1/2	324.08		
3/4		3/4	5,463.65	3/4	5,128.71	3/4	4,759.90	3/4	4,389.48	3/4	4,019.07	3/4	3,648.65	3/4	3,278.23	3/4	2,907.82	3/4	2,537.40	3/4	2,166.98	3/4	1,796.57	3/4	1,426.30	3/4	1,056.34	3/4	686.36	3/4	316.38		
6		6	5,460.67	6	5,121.04	6	4,752.18	6	4,381.76	6	4,011.35	6	3,640.93	6	3,270.52	6	2,900.10	6	2,529.68	6	2,159.27	6	1,788.85	6	1,418.60	6	1,048.64	6	678.65	6	308.67		
1/4		1/4	5,457.68	1/4	5,113.36	1/4	4,744.46	1/4	4,374.05	1/4	4,003.63	1/4	3,633.22	1/4	3,262.80	1/4	2,892.38	1/4	2,521.97	1/4	2,151.55	1/4	1,781.13	1/4	1,410.89	1/4	1,040.93	1/4	670.94	1/4	300.96		
1/2		1/2	5,453.36	1/2	5,105.69	1/2	4,736.75	1/2	4,366.33	1/2	3,995.91	1/2	3,625.50	1/2	3,255.08	1/2	2,884.67	1/2	2,514.25	1/2	2,143.83	1/2	1,773.42	1/2	1,403.18	1/2	1,033.22	1/2	663.24	1/2	293.25		
3/4		3/4	5,449.03	3/4	5,098.01	3/4	4,729.03	3/4	4,358.61	3/4	3,988.20	3/4	3,617.78	3/4	3,247.36	3/4	2,876.95	3/4	2,506.53	3/4	2,136.12	3/4	1,765.70	3/4	1,395.47	3/4	1,025.51	3/4	655.53	3/4	285.54		
7		7	5,444.71	7	5,090.33	7	4,721.31	7	4,350.90	7	3,980.48	7	3,610.06	7	3,239.65	7	2,869.23	7	2,498.82	7	2,128.40	7	1,757.98	7	1,387.77	7	1,017.80	7	647.82	7	277.84		
1/4		1/4	5,440.38	1/4	5,082.66	1/4	4,713.59	1/4	4,343.18	1/4	3,972.76	1/4	3,602.35	1/4	3,231.93	1/4	2,861.51	1/4	2,491.10	1/4	2,120.68	1/4	1,750.27	1/4	1,380.06	1/4	1,010.10	1/4	640.11	1/4	270.13		
1/2		1/2	5,434.72	1/2	5,074.98	1/2	4,705.88	1/2	4,335.46	1/2	3,965.05	1/2	3,594.63	1/2	3,224.21	1/2	2,853.80	1/2	2,483.38	1/2	2,112.97	1/2	1,742.55	1/2	1,372.35	1/2	1,002.39	1/2	632.40	1/2	262.42		
3/4		3/4	5,429.05	3/4	5,067.31	3/4	4,698.16	3/4	4,327.74	3/4	3,957.33	3/4	3,586.91	3/4	3,216.50	3/4	2,846.08	3/4	2,475.66	3/4	2,105.25	3/4	1,734.83	3/4	1,364.65	3/4	994.68	3/4	624.70	3/4	254.71		
8		8	5,423.39	8	5,059.63	8	4,690.44	8	4,320.03	8	3,949.61	8	3,579.20	8	3,208.78	8	2,838.36	8	2,467.95	8	2,097.53	8	1,727.12	8	1,356.94	8	986.97	8	616.99	8	247.00		
1/4		1/4	5,417.72	1/4	5,051.95	1/4	4,682.73	1/4	4,312.31	1/4	3,941.90	1/4	3,571.48	1/4	3,201.06	1/4	2,830.65	1/4	2,460.23	1/4	2,089.81	1/4	1,719.40	1/4	1,349.23	1/4	979.26	1/4	609.28	1/4	239.30		
1/2		1/2	5,410.72	1/2	5,044.28	1/2	4,675.01	1/2	4,304.59	1/2	3,934.																						



# BARGE "HSM-3209" HARDIN ST MARINE, LLC

## 3 PORT OR STAR

### OUTAGE TABLE

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

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.	IN	15 FT.	IN	16 FT.	IN	17 FT.	
0	0	4,755.11	0	4,497.93	0	4,239.59	0	3,980.87	0	3,722.15	0	3,435.23	0	3,063.04	0	2,690.84	0	2,318.65	0	1,946.46	0	1,574.27	0	1,207.03	0	840.45	0	473.88	0	107.30		
1/4	1/4	4,749.75	1/4	4,492.57	1/4	4,234.20	1/4	3,975.48	1/4	3,716.76	1/4	3,427.47	1/4	3,055.28	1/4	2,683.09	1/4	2,310.90	1/4	1,938.71	1/4	1,566.51	1/4	1,199.39	1/4	832.82	1/4	466.24	1/4	99.67		
1/2	1/2	4,744.39	1/2	4,487.21	1/2	4,228.81	1/2	3,970.09	1/2	3,711.37	1/2	3,419.72	1/2	3,047.53	1/2	2,675.34	1/2	2,303.14	1/2	1,930.95	1/2	1,558.76	1/2	1,191.76	1/2	825.18	1/2	458.60	1/2	92.03		
3/4	3/4	4,739.04	3/4	4,481.85	3/4	4,223.42	3/4	3,964.70	3/4	3,705.98	3/4	3,411.97	3/4	3,039.77	3/4	2,667.58	3/4	2,295.39	3/4	1,923.20	3/4	1,551.01	3/4	1,184.12	3/4	817.54	3/4	450.97	3/4	84.39		
1	1	4,733.68	1	4,476.49	1	4,218.03	1	3,959.31	1	3,700.59	1	3,404.21	1	3,032.02	1	2,659.83	1	2,287.64	1	1,915.44	1	1,543.25	1	1,176.48	1	809.91	1	443.33	1	76.75		
1/4	1/4	4,728.32	1/4	4,471.14	1/4	4,212.64	1/4	3,953.92	1/4	3,695.20	1/4	3,396.46	1/4	3,024.27	1/4	2,652.07	1/4	2,279.88	1/4	1,907.69	1/4	1,535.50	1/4	1,168.85	1/4	802.27	1/4	435.69	1/4	69.12		
1/2	1/2	4,722.96	1/2	4,465.78	1/2	4,207.25	1/2	3,948.53	1/2	3,689.81	1/2	3,388.70	1/2	3,016.51	1/2	2,644.32	1/2	2,272.13	1/2	1,899.94	1/2	1,527.74	1/2	1,161.21	1/2	794.63	1/2	428.06	1/2	61.48		
3/4	3/4	4,717.60	3/4	4,460.42	3/4	4,201.86	3/4	3,943.14	3/4	3,684.42	3/4	3,380.95	3/4	3,008.76	3/4	2,636.57	3/4	2,264.37	3/4	1,892.18	3/4	1,520.11	3/4	1,153.57	3/4	787.00	3/4	420.42	3/4	54.79		
2	2	4,712.25	2	4,455.06	2	4,196.47	2	3,937.75	2	3,679.03	2	3,373.20	2	3,001.00	2	2,628.81	2	2,256.62	2	1,884.43	2	1,512.47	2	1,145.93	2	779.36	2	412.78	2	48.11		
1/4	1/4	4,706.89	1/4	4,449.70	1/4	4,191.08	1/4	3,932.36	1/4	3,673.64	1/4	3,365.44	1/4	2,993.25	1/4	2,621.06	1/4	2,248.87	1/4	1,876.67	1/4	1,504.84	1/4	1,138.30	1/4	771.72	1/4	405.15	1/4	41.42		
1/2	1/2	4,701.53	1/2	4,444.35	1/2	4,185.69	1/2	3,926.97	1/2	3,668.25	1/2	3,357.69	1/2	2,985.50	1/2	2,613.30	1/2	2,241.11	1/2	1,868.92	1/2	1,497.20	1/2	1,130.66	1/2	764.08	1/2	397.51	1/2	34.73		
3/4	3/4	4,696.17	3/4	4,438.99	3/4	4,180.30	3/4	3,921.58	3/4	3,662.86	3/4	3,349.93	3/4	2,977.74	3/4	2,605.55	3/4	2,233.36	3/4	1,861.17	3/4	1,489.56	3/4	1,123.02	3/4	756.45	3/4	389.87	3/4	29.96		
3	3	4,885.95	3	4,690.81	3	4,433.63	3	4,174.91	3	3,916.19	3	3,657.47	3	3,342.18	3	2,969.99	3	2,597.80	3	2,225.60	3	1,853.41	3	1,481.93	3	1,115.39	3	748.81	3	382.23	3	25.18
1/4	1/4	4,885.64	1/4	4,685.46	1/4	4,428.24	1/4	4,169.52	1/4	3,910.80	1/4	3,652.08	1/4	3,334.43	1/4	2,962.23	1/4	2,590.04	1/4	2,217.85	1/4	1,845.66	1/4	1,474.29	1/4	1,107.75	1/4	741.17	1/4	374.60	1/4	20.40
1/2	1/2	4,885.32	1/2	4,680.10	1/2	4,422.85	1/2	4,164.13	1/2	3,905.41	1/2	3,646.69	1/2	3,326.67	1/2	2,954.48	1/2	2,582.29	1/2	2,210.10	1/2	1,837.90	1/2	1,466.66	1/2	1,100.11	1/2	733.54	1/2	366.96	1/2	15.62
3/4	3/4	4,885.01	3/4	4,674.74	3/4	4,417.46	3/4	4,158.74	3/4	3,900.02	3/4	3,641.30	3/4	3,318.92	3/4	2,946.73	3/4	2,574.53	3/4	2,202.34	3/4	1,830.15	3/4	1,459.02	3/4	1,092.48	3/4	725.90	3/4	359.32	3/4	
4	4	4,883.87	4	4,669.38	4	4,412.07	4	4,153.35	4	3,894.63	4	3,635.91	4	3,311.16	4	2,938.97	4	2,566.78	4	2,194.59	4	1,822.40	4	1,451.38	4	1,084.84	4	718.26	4	351.69	4	
1/4	1/4	4,882.74	1/4	4,664.02	1/4	4,406.68	1/4	4,147.96	1/4	3,889.24	1/4	3,630.52	1/4	3,303.41	1/4	2,931.22	1/4	2,559.03	1/4	2,186.83	1/4	1,814.64	1/4	1,443.75	1/4	1,077.20	1/4	710.63	1/4	344.05	1/4	
1/2	1/2	4,881.60	1/2	4,658.67	1/2	4,401.29	1/2	4,142.57	1/2	3,883.85	1/2	3,625.13	1/2	3,295.66	1/2	2,923.46	1/2	2,551.27	1/2	2,179.08	1/2	1,806.89	1/2	1,436.11	1/2	1,069.56	1/2	702.99	1/2	336.41	1/2	
3/4	3/4	4,880.46	3/4	4,653.31	3/4	4,395.90	3/4	4,137.18	3/4	3,878.46	3/4	3,619.74	3/4	3,287.90	3/4	2,915.71	3/4	2,543.52	3/4	2,171.33	3/4	1,799.13	3/4	1,428.48	3/4	1,061.93	3/4	695.35	3/4	328.78	3/4	
5	5	4,878.39	5	4,647.95	5	4,390.51	5	4,131.79	5	3,873.07	5	3,614.35	5	3,280.15	5	2,907.96	5	2,535.76	5	2,163.57	5	1,791.38	5	1,420.84	5	1,054.29	5	687.71	5	321.14	5	
1/4	1/4	4,876.32	1/4	4,642.59	1/4	4,385.12	1/4	4,126.40	1/4	3,867.68	1/4	3,608.96	1/4	3,272.39	1/4	2,900.20	1/4	2,528.01	1/4	2,155.82	1/4	1,783.63	1/4	1,413.20	1/4	1,046.65	1/4	680.08	1/4	313.50	1/4	
1/2	1/2	4,874.24	1/2	4,637.23	1/2	4,379.73	1/2	4,121.01	1/2	3,862.29	1/2	3,603.57	1/2	3,264.64	1/2	2,892.45	1/2	2,520.26	1/2	2,148.06	1/2	1,775.87	1/2	1,405.57	1/2	1,039.02	1/2	672.44	1/2	305.86	1/2	
3/4	3/4	4,872.17	3/4	4,631.88	3/4	4,374.34	3/4	4,115.62	3/4	3,856.90	3/4	3,598.18	3/4	3,256.89	3/4	2,884.69	3/4	2,512.50	3/4	2,140.31	3/4	1,768.12	3/4	1,397.93	3/4	1,031.38	3/4	664.80	3/4	298.23	3/4	
6	6	4,869.16	6	4,626.52	6	4,368.95	6	4,110.23	6	3,851.51	6	3,592.79	6	3,249.13	6	2,876.94	6	2,504.75	6	2,132.56	6	1,760.36	6	1,390.30	6	1,023.74	6	657.17	6	290.59	6	
1/4	1/4	4,866.14	1/4	4,621.16	1/4	4,363.56	1/4	4,104.84	1/4	3,846.12	1/4	3,587.25	1/4	3,241.38	1/4	2,869.19	1/4	2,496.99	1/4	2,124.80	1/4	1,752.61	1/4	1,382.66	1/4	1,016.11	1/4	649.53	1/4	282.95	1/4	
1/2	1/2	4,863.13	1/2	4,615.80	1/2	4,358.17	1/2	4,099.45	1/2	3,840.73	1/2	3,581.72	1/2	3,233.62	1/2	2,861.43	1/2	2,489.24	1/2	2,117.05	1/2	1,744.86	1/2	1,375.02	1/2	1,008.47	1/2	641.89	1/2	275.32	1/2	
3/4	3/4	4,860.12	3/4	4,610.44	3/4	4,352.78	3/4	4,094.06	3/4	3,835.34	3/4	3,576.18	3/4	3,225.87	3/4	2,853.68	3/4	2,481.49	3/4	2,109.29	3/4	1,737.10	3/4	1,367.39	3/4	1,000.83	3/4	634.26	3/4	267.68	3/4	
7	7	4,856.17	7	4,605.09	7	4,347.39	7	4,088.67	7	3,829.95	7	3,570.30	7	3,218.12	7	2,845.92	7	2,473.73	7	2,101.54	7	1,729.35	7	1,359.75	7	993.19	7	626.62	7	260.04	7	
1/4	1/4	4,852.22	1/4	4,599.73	1/4	4,342.00	1/4	4,083.28	1/4	3,824.56	1/4	3,564.43	1/4	3,210.36	1/4	2,838.17	1/4	2,465.98	1/4	2,093.79	1/4	1,721.59	1/4	1,352.12	1/4	985.56	1/4	618.98	1/4	252.41	1/4	
1/2	1/2	4,848.27	1/2	4,594.37	1/2	4,336.61	1/2	4,077.89	1/2	3,819.17	1/2	3,558.55	1/2	3,202.61	1/2	2,830.42	1/2	2,458.22	1/2	2,086.03	1/2	1,713.84	1/2	1,344.48	1/2	977.92	1/2	611.34	1/2	244.77	1/2	
3/4	3/4	4,844.32	3/4	4,589.01	3/4	4,331.22	3/4	4,072.50	3/4	3,813.78	3/4	3,552.67	3/4	3,194.85	3/4	2,822.66	3/4	2,450.47	3/4	2,078.28	3/4	1,706.09	3/4	1,336.84	3/4	970.28	3/4	603.71	3/4	237.13	3/4	
8	8	4,839.43	8	4,583.65	8	4,325.83	8	4,067.11	8	3,808.39	8	3,546.40	8	3,187.10	8	2,814.91	8	2,442.72	8	2,070.52	8	1,698.33	8	1,329.21	8	962.65	8	596.07	8	229.49	8	
1/4	1/4	4,834.54	1/4	4,578.30	1/4	4,320.44	1/4	4,061.72	1/4	3,803.00	1/4	3,540.13	1/4	3,179.35	1/4	2,807.15	1/4	2,434.96	1/4	2,062.77	1/4	1,690.58	1/4	1,321.57	1/4	955.01	1/4	588.43	1/4	221.86	1/4	
1/2	1/2	4,829.65	1/2	4,572.94	1/2	4,315.05	1/2	4,056.33	1/2	3,797.61	1/2	3,533.86	1/2	3,171.59	1/2	2,799.40	1/2	2,427.21	1/2	2,055.02	1/2	1,682.82	1/2	1,313.94	1/2	947.37	1/2	580.80	1/2	214.22	1/2	
3/4	3/4	4,824.76	3/4	4,567.58	3/4	4,309.66	3/4	4,050.94	3/4	3,792.22	3/4	3,527.59	3/4	3,163.84	3/4	2,791.65	3/4	2,419.45	3/4	2,047.26	3/4	1,675.07	3/4	1,306.30	3/4	939.74	3/4	573.16	3/4	206.58	3/4	
9	9	4,819.41	9	4,562.22	9	4,304.27	9	4,045.55	9																							