

Barge ID	Barge Number	Gauge Type	Date Strapped	Strapped By	Comment
MAP	722	BARRELS OUTAGE	12/01/04	INSPECTORATE	BARGE SHOULD BE ON EVEN LEVEL KEEL WHEN GAUGES ARE TAKEN.

Barge ID	Barge Number	Comp	Gauge Height
MAP	722	1 PORT	137.750
MAP	722	1 STAR	137.750
MAP	722	2 PORT	137.500
MAP	722	2 STAR	137.500
MAP	722	3 PORT	137.000
MAP	722	3 STAR	137.250

	0 FT	1 FT	2 FT	3 FT	4 FT	5 FT	6 FT	7 FT	8 FT	9 FT	10 FT	11 FT
0	0.00	3.815.53	3.448.90	3.082.28	2.714.81	2.346.80	1.978.78	1.610.77	1.242.75	874.73	507.45	152.48
1/4	0.00	3.807.89	3.441.27	3.074.64	2.707.15	2.338.13	1.971.11	1.603.10	1.235.08	867.07	500.51	145.51
1/2	0.00	3.800.25	3.433.63	3.067.00	2.699.48	2.331.46	1.963.45	1.595.43	1.227.42	859.40	493.57	138.54
3/4	4.005.99	3.792.61	3.425.99	3.059.36	2.691.81	2.323.80	1.955.78	1.587.76	1.219.75	851.73	486.63	131.58
1	4.005.63	3.784.97	3.418.35	3.051.73	2.684.15	2.316.13	1.948.11	1.580.10	1.212.08	844.07	479.69	124.59
1/4	4.005.27	3.777.34	3.410.71	3.044.09	2.676.48	2.308.46	1.940.45	1.572.43	1.204.41	836.40	472.75	117.62
1/2	4.004.92	3.769.70	3.403.07	3.036.45	2.668.81	2.300.80	1.932.78	1.564.76	1.196.75	828.73	465.81	110.65
3/4	4.004.58	3.762.06	3.395.44	3.028.81	2.661.14	2.293.13	1.925.11	1.557.10	1.189.08	821.06	458.87	103.67
2	4.003.43	3.754.42	3.387.80	3.021.17	2.653.48	2.285.46	1.917.45	1.549.43	1.181.41	813.40	451.21	97.62
1/4	4.002.31	3.746.78	3.380.16	3.013.54	2.645.81	2.277.79	1.909.78	1.541.76	1.173.75	805.73	443.55	91.57
1/2	4.001.18	3.739.15	3.372.52	3.005.90	2.638.14	2.270.13	1.902.11	1.534.10	1.166.08	798.06	435.88	85.52
3/4	4.000.06	3.731.51	3.364.88	2.998.26	2.630.48	2.262.46	1.894.44	1.526.43	1.158.41	790.40	428.20	79.46
3	3.998.17	3.723.87	3.357.25	2.990.62	2.622.81	2.254.79	1.886.78	1.518.76	1.150.75	782.73	420.56	73.41
1/4	3.996.27	3.716.23	3.349.61	2.982.98	2.615.14	2.247.13	1.879.11	1.511.09	1.143.08	775.06	412.89	67.36
1/2	3.994.38	3.708.59	3.341.97	2.975.35	2.607.48	2.239.46	1.871.44	1.503.43	1.135.41	767.40	405.23	61.31
3/4	3.992.49	3.700.96	3.334.33	2.967.71	2.599.81	2.231.79	1.863.78	1.495.76	1.127.74	759.73	397.57	55.26
4	3.989.84	3.693.32	3.326.69	2.960.07	2.592.14	2.224.13	1.856.11	1.488.09	1.120.08	752.06	389.91	49.43
1/4	3.987.18	3.685.68	3.319.06	2.952.43	2.584.47	2.216.46	1.848.44	1.480.43	1.112.41	744.39	382.24	43.61
1/2	3.984.52	3.678.04	3.311.42	2.944.79	2.576.81	2.208.79	1.840.78	1.472.76	1.104.74	736.73	374.58	37.79
3/4	3.981.86	3.670.40	3.303.78	2.937.16	2.569.14	2.201.12	1.833.11	1.465.09	1.097.08	729.06	366.92	31.97
5	3.978.44	3.662.77	3.296.14	2.929.49	2.561.47	2.193.46	1.825.44	1.457.43	1.089.41	721.39	359.25	27.66
1/4	3.975.02	3.655.13	3.288.50	2.921.82	2.553.81	2.185.79	1.817.77	1.449.76	1.081.74	713.73	351.59	23.35
1/2	3.971.55	3.647.49	3.280.67	2.914.16	2.546.14	2.178.12	1.810.11	1.442.09	1.074.08	706.06	343.93	19.04
3/4	3.968.17	3.639.85	3.273.23	2.906.49	2.538.47	2.170.46	1.802.44	1.434.42	1.066.41	698.39	336.26	14.73
6	3.963.98	3.632.21	3.265.59	2.898.82	2.530.81	2.162.79	1.794.77	1.426.76	1.058.74	690.73	328.70	
1/4	3.959.79	3.624.59	3.257.95	2.891.15	2.523.14	2.155.12	1.787.11	1.419.09	1.051.07	683.06	321.14	
1/2	3.955.60	3.616.94	3.250.31	2.883.49	2.515.47	2.147.46	1.779.44	1.411.42	1.043.41	675.39	313.57	
3/4	3.951.41	3.609.30	3.242.68	2.875.82	2.507.80	2.139.79	1.771.77	1.403.76	1.035.74	667.72	306.01	
7	3.946.45	3.601.66	3.235.04	2.868.15	2.500.14	2.132.12	1.764.11	1.396.09	1.028.07	660.06	298.44	
1/4	3.940.50	3.594.02	3.227.40	2.860.49	2.492.47	2.124.45	1.756.44	1.388.42	1.020.41	652.39	290.88	
1/2	3.936.54	3.586.39	3.219.76	2.852.82	2.484.80	2.116.79	1.748.77	1.380.76	1.012.74	644.72	283.32	
3/4	3.931.58	3.578.75	3.212.12	2.845.15	2.477.14	2.109.12	1.741.10	1.373.09	1.005.07	637.06	275.75	
8	3.925.86	3.571.11	3.204.49	2.837.49	2.469.47	2.101.45	1.733.44	1.365.42	997.41	629.39	268.39	
1/4	3.920.14	3.563.47	3.196.85	2.829.82	2.461.80	2.093.79	1.725.77	1.357.75	989.74	621.72	261.02	
1/2	3.914.42	3.555.83	3.189.21	2.822.15	2.454.14	2.086.12	1.718.10	1.350.09	982.07	614.06	253.65	
3/4	3.908.69	3.548.20	3.181.57	2.814.48	2.446.47	2.078.45	1.710.44	1.342.42	974.40	606.39	246.28	
9	3.902.20	3.540.56	3.173.93	2.806.82	2.438.80	2.070.79	1.702.77	1.334.75	966.74	598.72	238.92	
1/4	3.895.71	3.532.92	3.166.30	2.799.15	2.431.13	2.063.12	1.695.10	1.327.09	959.07	591.05	231.55	
1/2	3.889.23	3.525.28	3.158.37	2.791.48	2.423.47	2.055.45	1.687.44	1.319.42	951.40	583.39	224.18	
3/4	3.882.74	3.517.64	3.151.02	2.783.82	2.415.80	2.047.78	1.679.77	1.311.75	943.74	575.72	216.82	
10	3.875.48	3.510.01	3.143.38	2.776.15	2.408.13	2.040.12	1.672.10	1.304.09	936.07	568.05	209.65	
1/4	3.868.23	3.502.37	3.135.74	2.768.48	2.400.47	2.032.45	1.664.43	1.296.42	928.40	560.39	202.48	
1/2	3.860.97	3.494.73	3.128.11	2.760.82	2.392.80	2.024.78	1.656.77	1.288.75	920.74	552.72	195.31	
3/4	3.853.72	3.487.09	3.120.47	2.753.15	2.385.13	2.017.12	1.649.10	1.281.08	913.07	545.05	188.14	
11	3.846.08	3.479.45	3.112.83	2.745.48	2.377.47	2.009.45	1.641.43	1.273.42	905.40	537.39	180.97	
1/4	3.838.44	3.471.82	3.105.19	2.737.81	2.369.80	2.001.78	1.633.77	1.265.75	897.73	529.72	173.80	
1/2	3.830.80	3.464.18	3.097.55	2.730.15	2.362.13	1.994.12	1.626.10	1.258.08	890.07	522.05	166.63	
3/4	3.823.16	3.456.54	3.089.92	2.722.48	2.354.46	1.986.45	1.618.43	1.250.42	882.40	514.38	159.46	

	0 FT	1 FT	2 FT	3 FT	4 FT	5 FT	6 FT	7 FT	8 FT	9 FT	10 FT	11 FT
0	0.00	3.815.53	3.448.90	3.082.28	2.714.81	2.346.80	1.978.78	1.610.77	1.242.75	874.73	507.45	152.48
1/4	0.00	3.807.89	3.441.27	3.074.64	2.707.15	2.338.13	1.971.11	1.603.10	1.235.08	867.07	500.51	145.51
1/2	0.00	3.800.25	3.433.63	3.067.00	2.699.48	2.331.46	1.963.45	1.595.43	1.227.42	859.40	493.57	138.54
3/4	4.005.99	3.792.61	3.425.98	3.059.36	2.691.81	2.323.80	1.955.78	1.587.76	1.219.75	851.73	486.63	131.58
1	4.005.63	3.784.97	3.418.35	3.051.73	2.684.15	2.316.13	1.948.11	1.580.10	1.212.08	844.07	479.69	124.59
1/4	4.005.27	3.777.34	3.410.71	3.044.09	2.676.48	2.308.46	1.940.45	1.572.43	1.204.41	836.40	472.75	117.62
1/2	4.004.92	3.769.70	3.403.07	3.036.45	2.668.81	2.300.80	1.932.78	1.564.76	1.196.75	828.73	465.81	110.65
3/4	4.004.58	3.762.06	3.395.44	3.028.81	2.661.14	2.293.13	1.925.11	1.557.10	1.189.08	821.06	458.87	103.67
2	4.003.43	3.754.42	3.387.80	3.021.17	2.653.48	2.285.46	1.917.45	1.549.43	1.181.41	813.40	451.21	97.62
1/4	4.002.31	3.746.78	3.380.16	3.013.54	2.645.81	2.277.79	1.909.78	1.541.76	1.173.75	805.73	443.55	91.57
1/2	4.001.18	3.739.15	3.372.52	3.005.90	2.638.14	2.270.13	1.902.11	1.534.10	1.166.08	798.06	435.88	85.52
3/4	4.000.06	3.731.51	3.364.88	2.998.26	2.630.48	2.262.46	1.894.44	1.526.43	1.158.41	790.40	428.20	79.46
3	3.998.17	3.723.87	3.357.25	2.990.62	2.622.81	2.254.79	1.886.78	1.518.76	1.150.75	782.73	420.56	73.41
1/4	3.996.27	3.716.23	3.349.61	2.982.98	2.615.14	2.247.13	1.879.11	1.511.09	1.143.08	775.06	412.89	67.36
1/2	3.994.38	3.708.59	3.341.97	2.975.35	2.607.48	2.239.46	1.871.44	1.503.43	1.135.41	767.40	405.23	61.31
3/4	3.992.49	3.700.96	3.334.33	2.967.71	2.599.81	2.231.79	1.863.78	1.495.76	1.127.74	759.73	397.57	55.26
4	3.989.84	3.693.32	3.326.69	2.960.07	2.592.14	2.224.13	1.856.11	1.488.09	1.120.08	752.06	389.91	49.43
1/4	3.987.18	3.685.68	3.319.06	2.952.43	2.584.47	2.216.46	1.848.44	1.480.43	1.112.41	744.39	382.24	43.61
1/2	3.984.52	3.678.04	3.311.42	2.944.79	2.576.81	2.208.79	1.840.78	1.472.76	1.104.74	736.73	374.58	37.79
3/4	3.981.86	3.670.40	3.303.78	2.937.16	2.569.14	2.201.12	1.833.11	1.465.09	1.097.08	729.06	366.92	31.97
5	3.978.44	3.662.77	3.296.14	2.929.49	2.561.47	2.193.46	1.825.44	1.457.43	1.089.41	721.39	359.25	27.66
1/4	3.975.02	3.655.13	3.288.50	2.921.82	2.553.81	2.185.79	1.817.77	1.449.76	1.081.74	713.73	351.59	23.35
1/2	3.971.55	3.647.49	3.280.67	2.914.16	2.546.14	2.178.12	1.810.11	1.442.09	1.074.08	706.06	343.93	19.04
3/4	3.968.17	3.639.85	3.273.23	2.906.49	2.538.47	2.170.46	1.802.44	1.434.42	1.066.41	698.39	336.26	14.73
6	3.963.98	3.632.21	3.265.59	2.898.82	2.530.81	2.162.79	1.794.77	1.426.76	1.058.74	690.73	328.70	
1/4	3.959.79	3.624.59	3.257.95	2.891.15	2.523.14	2.155.12	1.787.11	1.419.09	1.051.07	683.06	321.14	
1/2	3.955.60	3.616.94	3.250.31	2.883.49	2.515.47	2.147.46	1.779.44	1.411.42	1.043.41	675.39	313.57	
3/4	3.951.41	3.609.30	3.242.68	2.875.82	2.507.80	2.139.79	1.771.77	1.403.76	1.035.74	667.72	306.01	
7	3.946.45	3.601.66	3.235.04	2.868.15	2.500.14	2.132.12	1.764.11	1.396.09	1.028.07	660.06	298.44	
1/4	3.940.50	3.594.02	3.227.40	2.860.49	2.492.47	2.124.45	1.756.44	1.388.42	1.020.41	652.39	290.88	
1/2	3.936.54	3.586.39	3.219.76	2.852.82	2.484.80	2.116.79	1.748.77	1.380.76	1.012.74	644.72	283.32	
3/4	3.931.58	3.578.75	3.212.12	2.845.15	2.477.14	2.109.12	1.741.10	1.373.09	1.005.07	637.06	275.75	
8	3.925.86	3.571.11	3.204.49	2.837.49	2.469.47	2.101.45	1.733.44	1.365.42	997.41	629.39	268.39	
1/4	3.920.14	3.563.47	3.196.85	2.829.82	2.461.80	2.093.79	1.725.77	1.357.75	989.74	621.72	261.02	
1/2	3.914.42	3.555.83	3.189.21	2.822.15	2.454.14	2.086.12	1.718.10	1.350.09	982.07	614.06	253.65	
3/4	3.908.69	3.548.20	3.181.57	2.814.48	2.446.47	2.078.45	1.710.44	1.342.42	974.40	606.39	246.28	
9	3.902.20	3.540.56	3.173.93	2.806.82	2.438.80	2.070.79	1.702.77	1.334.75	966.74	598.72	238.92	
1/4	3.895.71	3.532.92	3.166.30	2.799.15	2.431.13	2.063.12	1.695.10	1.327.09	959.07	591.05	231.55	
1/2	3.889.23	3.525.28	3.158.37	2.791.48	2.423.47	2.055.45	1.687.44	1.319.42	951.40	583.39	224.18	
3/4	3.882.74	3.517.64	3.151.02	2.783.82	2.415.80	2.047.78	1.679.77	1.311.75	943.74	575.72	216.82	
10	3.875.48	3.510.01	3.143.38	2.776.15	2.408.13	2.040.12	1.672.10	1.304.09	936.07	568.05	209.65	
1/4	3.868.23	3.502.37	3.135.74	2.768.48	2.400.47	2.032.45	1.664.43	1.296.42	928.40	560.39	202.48	
1/2	3.860.97	3.494.73	3.128.11	2.760.82	2.392.80	2.024.78	1.656.77	1.288.75	920.74	552.72	195.31	
3/4	3.853.72	3.487.09	3.120.47	2.753.15	2.385.13	2.017.12	1.649.10	1.281.08	913.07	545.05	188.14	
11	3.846.08	3.479.45	3.112.83	2.745.48	2.377.47	2.009.45	1.641.43	1.273.42	905.40	537.39	180.97	
1/4	3.838.44	3.471.82	3.105.19	2.737.81	2.369.80	2.001.78	1.633.77	1.265.75	897.73	529.72	173.80	
1/2	3.830.80	3.464.18	3.097.55	2.730.15	2.362.13	1.994.12	1.626.10	1.258.08	890.07	522.05	166.63	
3/4	3.823.16	3.456.54	3.089.92	2.722.48	2.354.46	1.986.45	1.618.43	1.250.42	882.40	514.38	159.46	

	0 FT	1 FT	2 FT	3 FT	4 FT	5 FT	6 FT	7 FT	8 FT	9 FT	10 FT	11 FT
0	0.00	3.909.58	3.535.23	3.160.87	2.786.04	2.410.92	2.035.80	1.660.68	1.285.56	910.44	536.86	165.93
1/4	0.00	3.901.78	3.527.43	3.153.08	2.778.23	2.403.11	2.027.99	1.652.87	1.277.75	902.63	529.81	158.10
1/2	4.111.83	3.893.98	3.519.63	3.145.28	2.770.41	2.395.29	2.020.17	1.645.05	1.269.93	894.81	522.76	150.28
3/4	4.111.46	3.886.18	3.511.83	3.137.48	2.762.60	2.387.48	2.012.36	1.637.24	1.262.12	887.00	515.72	142.45
1	4.111.10	3.878.38	3.504.03	3.129.68	2.754.78	2.379.66	2.004.54	1.629.42	1.254.30	879.18	508.67	134.63
1/4	4.110.73	3.870.58	3.496.23	3.121.88	2.746.97	2.371.85	1.996.73	1.621.61	1.246.49	871.37	501.62	126.80
1/2	4.110.37	3.862.78	3.488.43	3.114.08	2.739.15	2.364.03	1.988.91	1.613.79	1.238.67	863.55	494.58	118.98
3/4	4.109.22	3.854.99	3.480.63	3.106.28	2.731.34	2.356.22	1.981.10	1.605.98	1.230.86	855.74	486.75	111.93
2	4.108.07	3.847.19	3.472.83	3.098.48	2.723.52	2.348.40	1.973.28	1.598.16	1.223.04	847.92	478.93	104.88
1/4	4.106.93	3.839.39	3.465.04	3.090.68	2.715.71	2.340.59	1.965.47	1.590.35	1.215.23	840.11	471.10	97.83
1/2	4.105.78	3.831.59	3.457.24	3.082.88	2.707.89	2.332.77	1.957.65	1.582.53	1.207.41	832.29	463.28	90.79
3/4	4.103.85	3.823.79	3.449.44	3.075.09	2.700.08	2.324.96	1.949.84	1.574.72	1.199.60	824.48	455.45	83.74
3	4.101.92	3.815.99	3.441.64	3.067.29	2.692.26	2.317.14	1.942.02	1.566.90	1.191.78	816.66	447.63	76.69
1/4	4.099.99	3.808.19	3.433.84	3.059.49	2.684.45	2.309.33	1.934.21	1.559.09	1.183.97	808.85	439.80	69.65
1/2	4.098.06	3.800.39	3.426.04	3.051.69	2.676.63	2.301.51	1.926.39	1.551.27	1.176.15	801.03	431.98	62.60
3/4	4.095.35	3.792.59	3.418.24	3.043.89	2.668.82	2.293.70	1.918.58	1.543.46	1.168.34	793.22	424.15	55.75
4	4.092.64	3.784.79	3.410.44	3.036.09	2.661.00	2.285.88	1.910.76	1.535.64	1.160.52	785.40	416.33	48.91
1/4	4.089.92	3.777.00	3.402.64	3.028.29	2.653.19	2.278.07	1.902.95	1.527.83	1.152.71	777.59	408.50	42.06
1/2	4.087.21	3.769.20	3.394.84	3.020.49	2.645.37	2.270.25	1.895.13	1.520.01	1.144.89	769.77	400.68	35.21
3/4	4.083.72	3.761.40	3.387.05	3.012.68	2.637.56	2.262.44	1.887.32	1.512.20	1.137.08	761.96	392.85	30.32
5	4.080.22	3.753.60	3.379.25	3.004.86	2.629.74	2.254.62	1.879.50	1.504.38	1.129.26	754.14	385.03	25.43
1/4	4.076.72	3.745.80	3.371.45	2.997.05	2.621.93	2.246.81	1.871.69	1.496.57	1.121.45	746.33	377.20	20.54
1/2	4.073.23	3.738.00	3.363.65	2.989.23	2.614.11	2.238.99	1.863.87	1.488.75	1.113.63	738.51	369.38	15.65
3/4	4.068.95	3.730.20	3.355.85	2.981.42	2.606.30	2.231.18	1.856.06	1.480.94	1.105.82	730.70	361.55	
6	4.064.67	3.722.40	3.348.05	2.973.60	2.598.48	2.223.37	1.848.24	1.473.12	1.098.00	722.88	353.73	
1/4	4.060.39	3.714.60	3.340.25	2.965.79	2.590.67	2.215.55	1.840.43	1.465.31	1.090.19	715.07	345.90	
1/2	4.056.12	3.706.80	3.332.45	2.957.97	2.582.85	2.207.73	1.832.61	1.457.49	1.082.37	707.25	338.08	
3/4	4.051.06	3.699.01	3.324.65	2.950.16	2.575.04	2.199.92	1.824.80	1.449.68	1.074.56	699.44	330.25	
7	4.046.00	3.691.21	3.316.85	2.942.34	2.567.22	2.192.10	1.816.98	1.441.86	1.066.74	691.62	322.43	
1/4	4.040.94	3.683.41	3.309.06	2.934.53	2.559.41	2.184.29	1.809.17	1.434.05	1.058.93	683.81	314.60	
1/2	4.035.88	3.675.61	3.301.26	2.926.71	2.551.59	2.176.47	1.801.35	1.426.23	1.051.11	675.99	306.78	
3/4	4.030.03	3.667.81	3.293.46	2.918.90	2.543.78	2.168.66	1.793.54	1.418.42	1.043.30	668.18	298.95	
8	4.024.19	3.660.01	3.285.66	2.911.08	2.535.96	2.160.84	1.785.72	1.410.60	1.035.48	660.36	291.13	
1/4	4.018.35	3.652.21	3.277.86	2.903.27	2.528.15	2.153.03	1.777.91	1.402.79	1.027.67	652.55	283.30	
1/2	4.012.50	3.644.41	3.270.06	2.895.45	2.520.33	2.145.21	1.770.09	1.394.97	1.019.85	644.73	275.48	
3/4	4.005.88	3.636.61	3.262.26	2.887.64	2.512.52	2.137.40	1.762.28	1.387.16	1.012.04	636.92	267.65	
9	3.999.25	3.628.81	3.254.46	2.879.82	2.504.70	2.129.58	1.754.46	1.379.34	1.004.22	629.10	259.83	
1/4	3.992.63	3.621.02	3.246.66	2.872.01	2.496.89	2.121.77	1.746.65	1.371.53	996.41	621.29	252.00	
1/2	3.986.00	3.613.22	3.238.86	2.864.19	2.489.07	2.113.95	1.738.83	1.363.71	988.59	613.47	244.18	
3/4	3.978.60	3.605.42	3.231.07	2.856.38	2.481.26	2.106.14	1.731.02	1.355.90	980.78	605.66	236.35	
10	3.971.19	3.597.62	3.223.27	2.848.56	2.473.44	2.098.32	1.723.20	1.348.08	972.96	597.84	228.53	
1/4	3.963.78	3.589.82	3.215.47	2.840.75	2.465.63	2.090.51	1.715.39	1.340.27	965.15	590.03	220.70	
1/2	3.956.37	3.582.02	3.207.67	2.832.93	2.457.81	2.082.69	1.707.57	1.332.45	957.33	582.21	212.88	
3/4	3.948.57	3.574.22	3.199.87	2.825.12	2.450.00	2.074.88	1.699.76	1.324.64	949.52	574.40	205.05	
11	3.940.77	3.566.42	3.192.07	2.817.30	2.442.18	2.067.06	1.691.94	1.316.82	941.70	566.58	197.23	
1/4	3.932.98	3.558.62	3.184.27	2.809.49	2.434.37	2.059.25	1.684.13	1.309.01	933.89	558.77	189.40	
1/2	3.925.18	3.550.82	3.176.47	2.801.67	2.426.55	2.051.43	1.676.31	1.301.19	926.07	550.95	181.58	
3/4	3.917.38	3.543.03	3.168.67	2.793.86	2.418.74	2.043.62	1.668.50	1.293.38	918.26	543.90	173.75	

	0 FT	1 FT	2 FT	3 FT	4 FT	5 FT	6 FT	7 FT	8 FT	9 FT	10 FT	11 FT
0	0.00	3.909.58	3.535.23	3.160.87	2.786.04	2.410.92	2.035.80	1.660.68	1.285.56	910.44	536.86	165.93
1/4	0.00	3.901.78	3.527.43	3.153.08	2.778.23	2.403.11	2.027.99	1.652.87	1.277.75	902.63	529.81	158.10
1/2	4.111.83	3.893.98	3.519.63	3.145.28	2.770.41	2.395.29	2.020.17	1.645.05	1.269.93	894.81	522.76	150.28
3/4	4.111.46	3.886.18	3.511.83	3.137.48	2.762.60	2.387.48	2.012.36	1.637.24	1.262.12	887.00	515.72	142.45
1	4.111.10	3.878.38	3.504.03	3.129.68	2.754.78	2.379.66	2.004.54	1.629.42	1.254.30	879.18	508.67	134.63
1/4	4.110.73	3.870.58	3.496.23	3.121.88	2.746.97	2.371.85	1.996.73	1.621.61	1.246.49	871.37	501.62	126.80
1/2	4.110.37	3.862.78	3.488.43	3.114.08	2.739.15	2.364.03	1.988.91	1.613.79	1.238.67	863.55	494.58	118.98
3/4	4.109.22	3.854.99	3.480.63	3.106.28	2.731.34	2.356.22	1.981.10	1.605.98	1.230.86	855.74	486.75	111.93
2	4.108.07	3.847.19	3.472.83	3.098.48	2.723.52	2.348.40	1.973.28	1.598.16	1.223.04	847.92	478.93	104.88
1/4	4.106.93	3.839.39	3.465.04	3.090.68	2.715.71	2.340.59	1.965.47	1.590.35	1.215.23	840.11	471.10	97.83
1/2	4.105.78	3.831.59	3.457.24	3.082.88	2.707.89	2.332.77	1.957.65	1.582.53	1.207.41	832.29	463.28	90.79
3/4	4.103.85	3.823.79	3.449.44	3.075.09	2.700.08	2.324.96	1.949.84	1.574.72	1.199.60	824.48	455.45	83.74
3	4.101.92	3.815.99	3.441.64	3.067.29	2.692.26	2.317.14	1.942.02	1.566.90	1.191.78	816.66	447.63	76.69
1/4	4.099.99	3.808.19	3.433.84	3.059.49	2.684.45	2.309.33	1.934.21	1.559.09	1.183.97	808.85	439.80	69.65
1/2	4.098.06	3.800.39	3.426.04	3.051.69	2.676.63	2.301.51	1.926.39	1.551.27	1.176.15	801.03	431.98	62.60
3/4	4.095.35	3.792.59	3.418.24	3.043.89	2.668.82	2.293.70	1.918.58	1.543.46	1.168.34	793.22	424.15	55.75
4	4.092.64	3.784.79	3.410.44	3.036.09	2.661.00	2.285.88	1.910.76	1.535.64	1.160.52	785.40	416.33	48.91
1/4	4.089.92	3.777.00	3.402.64	3.028.29	2.653.19	2.278.07	1.902.95	1.527.83	1.152.71	777.59	408.50	42.06
1/2	4.087.21	3.769.20	3.394.84	3.020.49	2.645.37	2.270.25	1.895.13	1.520.01	1.144.89	769.77	400.68	35.21
3/4	4.083.72	3.761.40	3.387.05	3.012.68	2.637.56	2.262.44	1.887.32	1.512.20	1.137.08	761.96	392.85	30.32
5	4.080.22	3.753.60	3.379.25	3.004.86	2.629.74	2.254.62	1.879.50	1.504.38	1.129.26	754.14	385.03	25.43
1/4	4.076.72	3.745.80	3.371.45	2.997.05	2.621.93	2.246.81	1.871.69	1.496.57	1.121.45	746.33	377.20	20.54
1/2	4.073.23	3.738.00	3.363.65	2.989.23	2.614.11	2.238.99	1.863.87	1.488.75	1.113.63	738.51	369.38	15.65
3/4	4.068.95	3.730.20	3.355.85	2.981.42	2.606.30	2.231.18	1.856.06	1.480.94	1.105.82	730.70	361.55	
6	4.064.67	3.722.40	3.348.05	2.973.60	2.598.48	2.223.37	1.848.24	1.473.12	1.098.00	722.88	353.73	
1/4	4.060.39	3.714.60	3.340.25	2.965.79	2.590.67	2.215.55	1.840.43	1.465.31	1.090.19	715.07	345.90	
1/2	4.056.12	3.706.80	3.332.45	2.957.97	2.582.85	2.207.73	1.832.61	1.457.49	1.082.37	707.25	338.08	
3/4	4.051.06	3.699.01	3.324.65	2.950.16	2.575.04	2.199.92	1.824.80	1.449.68	1.074.56	699.44	330.25	
7	4.046.00	3.691.21	3.316.85	2.942.34	2.567.22	2.192.10	1.816.98	1.441.86	1.066.74	691.62	322.43	
1/4	4.040.94	3.683.41	3.309.06	2.934.53	2.559.41	2.184.29	1.809.17	1.434.05	1.058.93	683.81	314.60	
1/2	4.035.88	3.675.61	3.301.26	2.926.71	2.551.59	2.176.47	1.801.35	1.426.23	1.051.11	675.99	306.78	
3/4	4.030.03	3.667.81	3.293.46	2.918.90	2.543.78	2.168.66	1.793.54	1.418.42	1.043.30	668.18	298.95	
8	4.024.19	3.660.01	3.285.66	2.911.08	2.535.96	2.160.84	1.785.72	1.410.60	1.035.48	660.36	291.13	
1/4	4.018.35	3.652.21	3.277.86	2.903.27	2.528.15	2.153.03	1.777.91	1.402.79	1.027.67	652.55	283.30	
1/2	4.012.50	3.644.41	3.270.06	2.895.45	2.520.33	2.145.21	1.770.09	1.394.97	1.019.85	644.73	275.48	
3/4	4.005.88	3.636.61	3.262.26	2.887.64	2.512.52	2.137.40	1.762.28	1.387.16	1.012.04	636.92	267.65	
9	3.999.25	3.628.81	3.254.46	2.879.82	2.504.70	2.129.58	1.754.46	1.379.34	1.004.22	629.10	259.83	
1/4	3.992.63	3.621.02	3.246.66	2.872.01	2.496.89	2.121.77	1.746.65	1.371.53	996.41	621.29	252.00	
1/2	3.986.00	3.613.22	3.238.86	2.864.19	2.489.07	2.113.95	1.738.83	1.363.71	988.59	613.47	244.18	
3/4	3.978.60	3.605.42	3.231.07	2.856.38	2.481.26	2.106.14	1.731.02	1.355.90	980.78	605.66	236.35	
10	3.971.19	3.597.62	3.223.27	2.848.56	2.473.44	2.098.32	1.723.20	1.348.08	972.96	597.84	228.53	
1/4	3.963.78	3.589.82	3.215.47	2.840.75	2.465.63	2.090.51	1.715.39	1.340.27	965.15	590.03	220.70	
1/2	3.956.37	3.582.02	3.207.67	2.832.93	2.457.81	2.082.69	1.707.57	1.332.45	957.33	582.21	212.88	
3/4	3.948.57	3.574.22	3.199.87	2.825.12	2.450.00	2.074.88	1.699.76	1.324.64	949.52	574.40	205.05	
11	3.940.77	3.566.42	3.192.07	2.817.30	2.442.18	2.067.06	1.691.94	1.316.82	941.70	566.58	197.23	
1/4	3.932.98	3.558.62	3.184.27	2.809.49	2.434.37	2.059.25	1.684.13	1.309.01	933.89	558.77	189.40	
1/2	3.925.18	3.550.82	3.176.47	2.801.67	2.426.55	2.051.43	1.676.31	1.301.19	926.07	550.95	181.58	
3/4	3.917.38	3.543.03	3.168.67	2.793.86	2.418.74	2.043.62	1.668.50	1.293.38	918.26	543.90	173.75	

	0 FT	1 FT	2 FT	3 FT	4 FT	5 FT	6 FT	7 FT	8 FT	9 FT	10 FT	11 FT
0	3.996.71	3.785.04	3.421.30	3.057.56	2.693.17	2.328.47	1.963.76	1.599.06	1.234.36	869.65	507.95	146.02
1/4	3.996.36	3.777.47	3.413.72	3.049.98	2.685.57	2.320.87	1.956.17	1.591.46	1.226.76	862.05	501.10	138.42
1/2	3.996.00	3.769.89	3.406.14	3.042.40	2.677.98	2.313.27	1.948.57	1.583.86	1.219.16	854.46	494.25	130.72
3/4	3.995.65	3.762.31	3.398.57	3.034.82	2.670.38	2.305.67	1.940.97	1.576.27	1.211.56	846.86	487.40	123.22
1	3.995.29	3.754.73	3.390.99	3.027.24	2.662.78	2.298.08	1.933.37	1.568.67	1.203.96	839.26	480.56	115.61
1/4	3.994.18	3.747.15	3.383.41	3.019.67	2.655.18	2.290.48	1.925.77	1.561.07	1.196.37	831.66	472.95	108.76
1/2	3.993.06	3.739.58	3.375.63	3.012.09	2.647.58	2.282.88	1.918.18	1.553.47	1.188.77	824.06	465.35	101.92
3/4	3.991.95	3.732.00	3.368.25	3.004.51	2.639.99	2.275.28	1.910.58	1.545.87	1.181.17	816.47	457.75	95.07
2	3.990.83	3.724.42	3.360.68	2.996.93	2.632.39	2.267.68	1.902.98	1.538.28	1.173.57	808.87	450.14	88.22
1/4	3.988.96	3.716.84	3.353.10	2.989.35	2.624.79	2.260.09	1.895.38	1.530.68	1.165.97	801.27	442.54	81.37
1/2	3.987.08	3.709.26	3.345.52	2.981.78	2.617.19	2.252.49	1.887.78	1.523.08	1.158.38	793.67	434.94	74.52
3/4	3.985.21	3.701.69	3.337.94	2.974.20	2.609.59	2.244.89	1.880.19	1.515.48	1.150.78	786.07	427.34	67.68
3	3.983.33	3.694.11	3.330.36	2.966.62	2.602.00	2.237.29	1.872.59	1.507.88	1.143.18	778.48	419.73	60.83
1/4	3.980.70	3.686.53	3.322.79	2.959.04	2.594.40	2.229.69	1.864.99	1.500.29	1.135.58	770.88	412.13	54.18
1/2	3.978.06	3.678.95	3.315.21	2.951.46	2.586.80	2.222.10	1.857.39	1.492.69	1.127.98	763.28	404.53	47.52
3/4	3.975.43	3.671.37	3.307.63	2.943.89	2.579.20	2.214.50	1.849.79	1.485.09	1.120.39	755.68	396.92	40.87
4	3.972.79	3.663.80	3.300.05	2.936.31	2.571.60	2.206.90	1.842.20	1.477.49	1.112.79	748.08	389.32	34.22
1/4	3.969.40	3.656.22	3.292.47	2.928.71	2.564.01	2.199.30	1.834.60	1.469.89	1.105.19	740.49	381.72	29.47
1/2	3.966.00	3.648.64	3.284.90	2.921.11	2.556.41	2.191.70	1.827.00	1.462.30	1.097.59	732.89	374.11	24.72
3/4	3.962.60	3.641.06	3.277.32	2.913.51	2.548.81	2.184.11	1.819.40	1.454.70	1.089.99	725.29	366.51	19.96
5	3.959.20	3.633.48	3.269.74	2.905.92	2.541.21	2.176.51	1.811.80	1.447.10	1.082.40	717.69	358.91	15.21
1/4	3.955.05	3.625.91	3.262.16	2.898.32	2.533.61	2.168.91	1.804.21	1.439.50	1.074.80	710.09	351.31	
1/2	3.950.89	3.618.33	3.254.58	2.890.72	2.526.02	2.161.31	1.796.61	1.431.90	1.067.20	702.50	343.70	
3/4	3.946.76	3.610.75	3.247.01	2.883.12	2.518.42	2.153.71	1.789.01	1.424.31	1.059.60	694.90	336.10	
6	3.942.58	3.603.17	3.239.43	2.875.52	2.510.82	2.146.12	1.781.41	1.416.71	1.052.00	687.30	328.50	
1/4	3.937.66	3.595.59	3.231.86	2.867.93	2.503.22	2.138.52	1.773.81	1.409.11	1.044.41	679.70	320.89	
1/2	3.932.74	3.588.02	3.224.27	2.860.33	2.495.62	2.130.92	1.766.22	1.401.51	1.036.81	672.10	313.29	
3/4	3.927.83	3.580.44	3.216.69	2.852.73	2.488.03	2.123.32	1.758.62	1.393.91	1.029.21	664.51	305.69	
7	3.922.91	3.572.86	3.209.12	2.845.13	2.480.43	2.115.72	1.751.02	1.386.32	1.021.61	656.91	298.08	
1/4	3.917.24	3.565.26	3.201.54	2.837.53	2.472.83	2.108.13	1.743.42	1.378.72	1.014.01	649.31	290.48	
1/2	3.911.56	3.557.70	3.193.96	2.829.94	2.465.23	2.100.53	1.735.82	1.371.12	1.006.42	641.71	282.88	
3/4	3.905.88	3.550.13	3.186.38	2.822.34	2.457.63	2.092.93	1.728.23	1.363.52	998.82	634.11	275.28	
8	3.900.20	3.542.55	3.178.60	2.814.74	2.450.04	2.085.33	1.720.63	1.355.92	991.22	626.52	267.67	
1/4	3.893.77	3.534.97	3.171.23	2.807.14	2.442.44	2.077.73	1.713.03	1.348.33	983.62	618.92	260.07	
1/2	3.887.33	3.527.39	3.163.65	2.799.54	2.434.84	2.070.14	1.705.43	1.340.73	976.02	611.32	252.47	
3/4	3.880.89	3.519.81	3.156.07	2.791.95	2.427.24	2.062.54	1.697.83	1.333.13	968.43	603.72	244.86	
9	3.874.46	3.512.24	3.148.49	2.784.35	2.419.64	2.054.94	1.690.24	1.325.53	960.83	596.12	237.26	
1/4	3.867.26	3.504.66	3.140.91	2.776.75	2.412.05	2.047.34	1.682.64	1.317.93	953.23	588.53	229.66	
1/2	3.860.06	3.497.08	3.133.34	2.769.15	2.404.45	2.039.74	1.675.04	1.310.34	945.63	580.93	222.05	
3/4	3.852.87	3.489.50	3.125.76	2.761.55	2.396.85	2.032.15	1.667.44	1.302.74	938.03	573.33	214.45	
10	3.845.67	3.481.92	3.118.18	2.753.96	2.389.25	2.024.55	1.659.84	1.295.14	930.44	565.73	206.85	
1/4	3.838.09	3.474.35	3.110.60	2.746.36	2.381.65	2.016.95	1.652.25	1.287.54	922.84	558.13	199.25	
1/2	3.830.51	3.466.77	3.103.02	2.738.76	2.374.06	2.009.35	1.644.65	1.279.94	915.24	550.54	191.64	
3/4	3.822.93	3.459.19	3.095.45	2.731.16	2.366.46	2.001.75	1.637.05	1.272.35	907.64	542.94	184.04	
11	3.815.36	3.451.61	3.087.87	2.723.56	2.358.86	1.994.16	1.629.45	1.264.75	900.04	535.35	176.44	
1/4	3.807.78	3.444.03	3.080.29	2.715.97	2.351.26	1.986.56	1.621.85	1.257.15	892.45	528.49	168.83	
1/2	3.800.20	3.436.46	3.072.71	2.708.37	2.343.66	1.978.96	1.614.26	1.249.55	884.85	521.64	161.23	
3/4	3.792.62	3.428.88	3.065.13	2.700.77	2.336.07	1.971.36	1.606.66	1.241.95	877.25	514.80	153.63	

	0 FT	1 FT	2 FT	3 FT	4 FT	5 FT	6 FT	7 FT	8 FT	9 FT	10 FT	11 FT
0	3,996.71	3,785.04	3,421.30	3,057.56	2,693.17	2,328.47	1,963.76	1,599.06	1,234.36	869.65	507.95	146.02
1/4	3,996.36	3,777.47	3,413.72	3,049.98	2,685.57	2,320.87	1,956.17	1,591.46	1,226.76	862.05	501.10	138.42
1/2	3,996.00	3,769.89	3,406.14	3,042.40	2,677.98	2,313.27	1,948.57	1,583.86	1,219.16	854.46	494.25	130.72
3/4	3,995.65	3,762.31	3,398.57	3,034.82	2,670.38	2,305.67	1,940.97	1,576.27	1,211.56	846.86	487.40	123.22
1	3,995.29	3,754.73	3,390.99	3,027.24	2,662.78	2,298.08	1,933.37	1,568.67	1,203.96	839.26	480.56	115.61
1/4	3,994.18	3,747.15	3,383.41	3,019.67	2,655.18	2,290.48	1,925.77	1,561.07	1,196.37	831.66	472.95	108.76
1/2	3,993.06	3,739.58	3,375.63	3,012.09	2,647.58	2,282.88	1,918.18	1,553.47	1,188.77	824.06	465.35	101.92
3/4	3,991.95	3,732.00	3,368.25	3,004.51	2,639.99	2,275.28	1,910.58	1,545.87	1,181.17	816.47	457.75	95.07
2	3,990.83	3,724.42	3,360.68	2,996.93	2,632.39	2,267.68	1,902.98	1,538.28	1,173.57	808.87	450.14	88.22
1/4	3,989.96	3,716.84	3,353.10	2,989.35	2,624.79	2,260.09	1,895.38	1,530.68	1,165.97	801.27	442.54	81.37
1/2	3,987.08	3,709.26	3,345.52	2,981.78	2,617.19	2,252.49	1,887.78	1,523.08	1,158.38	793.67	434.94	74.52
3/4	3,985.21	3,701.69	3,337.94	2,974.20	2,609.59	2,244.89	1,880.19	1,515.48	1,150.78	786.07	427.34	67.68
3	3,983.33	3,694.11	3,330.36	2,966.62	2,602.00	2,237.29	1,872.59	1,507.88	1,143.18	778.48	419.73	60.83
1/4	3,980.70	3,686.53	3,322.79	2,959.04	2,594.40	2,229.69	1,864.99	1,500.29	1,135.58	770.88	412.13	54.18
1/2	3,978.06	3,678.95	3,315.21	2,951.46	2,586.80	2,222.10	1,857.39	1,492.69	1,127.98	763.28	404.53	47.52
3/4	3,975.43	3,671.37	3,307.63	2,943.89	2,579.20	2,214.50	1,849.79	1,485.09	1,120.39	755.68	396.92	40.87
4	3,972.79	3,663.80	3,300.05	2,936.31	2,571.60	2,206.90	1,842.20	1,477.49	1,112.79	748.08	389.32	34.22
1/4	3,969.40	3,656.22	3,292.47	2,928.71	2,564.01	2,199.30	1,834.60	1,469.89	1,105.19	740.49	381.72	29.47
1/2	3,966.00	3,648.64	3,284.90	2,921.11	2,556.41	2,191.70	1,827.00	1,462.30	1,097.59	732.89	374.11	24.72
3/4	3,962.60	3,641.06	3,277.32	2,913.51	2,548.81	2,184.11	1,819.40	1,454.70	1,089.99	725.29	366.51	19.96
5	3,959.20	3,633.48	3,269.74	2,905.92	2,541.21	2,176.51	1,811.80	1,447.10	1,082.40	717.69	358.91	15.21
1/4	3,955.05	3,625.91	3,262.16	2,898.32	2,533.61	2,168.91	1,804.21	1,439.50	1,074.80	710.09	351.31	
1/2	3,950.89	3,618.33	3,254.58	2,890.72	2,526.02	2,161.31	1,796.61	1,431.90	1,067.20	702.50	343.70	
3/4	3,946.76	3,610.75	3,247.01	2,883.12	2,518.42	2,153.71	1,789.01	1,424.31	1,059.60	694.90	336.10	
6	3,942.58	3,603.17	3,239.43	2,875.52	2,510.82	2,146.12	1,781.41	1,416.71	1,052.00	687.30	328.50	
1/4	3,937.66	3,595.59	3,231.86	2,867.93	2,503.22	2,138.52	1,773.81	1,409.11	1,044.41	679.70	320.89	
1/2	3,932.74	3,588.02	3,224.27	2,860.33	2,495.62	2,130.92	1,766.22	1,401.51	1,036.81	672.10	313.29	
3/4	3,927.83	3,580.44	3,216.69	2,852.73	2,488.03	2,123.32	1,758.62	1,393.91	1,029.21	664.51	305.69	
7	3,922.91	3,572.86	3,209.12	2,845.13	2,480.43	2,115.72	1,751.02	1,386.32	1,021.61	656.91	298.08	
1/4	3,917.24	3,565.26	3,201.54	2,837.53	2,472.83	2,108.13	1,743.42	1,378.72	1,014.01	649.31	290.48	
1/2	3,911.56	3,557.70	3,193.96	2,829.94	2,465.23	2,100.53	1,735.82	1,371.12	1,006.42	641.71	282.88	
3/4	3,905.88	3,550.13	3,186.38	2,822.34	2,457.63	2,092.93	1,728.23	1,363.52	998.82	634.11	275.28	
8	3,900.20	3,542.55	3,178.60	2,814.74	2,450.04	2,085.33	1,720.63	1,355.92	991.22	626.52	267.67	
1/4	3,893.77	3,534.97	3,171.23	2,807.14	2,442.44	2,077.73	1,713.03	1,348.33	983.62	618.92	260.07	
1/2	3,887.33	3,527.39	3,163.65	2,799.54	2,434.84	2,070.14	1,705.43	1,340.73	976.02	611.32	252.47	
3/4	3,880.89	3,519.81	3,156.07	2,791.95	2,427.24	2,062.54	1,697.83	1,333.13	968.43	603.72	244.86	
9	3,874.46	3,512.24	3,148.49	2,784.35	2,419.64	2,054.94	1,690.24	1,325.53	960.83	596.12	237.26	
1/4	3,867.26	3,504.66	3,140.91	2,776.75	2,412.05	2,047.34	1,682.64	1,317.93	953.23	588.53	229.66	
1/2	3,860.06	3,497.08	3,133.34	2,769.15	2,404.45	2,039.74	1,675.04	1,310.34	945.63	580.93	222.05	
3/4	3,852.87	3,489.50	3,125.76	2,761.55	2,396.85	2,032.15	1,667.44	1,302.74	938.03	573.33	214.45	
10	3,845.67	3,481.92	3,118.18	2,753.96	2,389.25	2,024.55	1,659.84	1,295.14	930.44	565.73	206.85	
1/4	3,838.09	3,474.35	3,110.60	2,746.36	2,381.65	2,016.95	1,652.25	1,287.54	922.84	558.13	199.25	
1/2	3,830.51	3,466.77	3,103.02	2,738.76	2,374.06	2,009.35	1,644.65	1,279.94	915.24	550.54	191.64	
3/4	3,822.93	3,459.19	3,095.45	2,731.16	2,366.46	2,001.75	1,637.05	1,272.35	907.64	542.94	184.04	
11	3,815.36	3,451.61	3,087.87	2,723.56	2,358.86	1,994.16	1,629.45	1,264.75	900.04	535.35	176.44	
1/4	3,807.78	3,444.03	3,080.29	2,715.97	2,351.26	1,986.56	1,621.85	1,257.15	892.45	528.49	168.83	
1/2	3,800.20	3,436.46	3,072.71	2,708.37	2,343.66	1,978.96	1,614.26	1,249.55	884.85	521.64	161.23	
3/4	3,792.62	3,428.88	3,065.13	2,700.77	2,336.07	1,971.36	1,606.66	1,241.95	877.25	514.80	153.63	