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DOES TRADING FREQUENCY AFFECT SUBORDINATED DEBT SPREADS?

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ABSTRACT

Because illiquid bonds may be relatively poorly priced, the ability to infer investor perceptions of changes in a banking organization's financial health from such bonds may be obscured. To examine the time-series effect of trading frequency on subordinated debt spreads, we consider the liquidity of subordinated debt for large, complex U.S. banking organizations over the 1987:Q2 - 2002:Q4 period. Since trade volumes are unobservable, we construct various measures of weekly trading frequency from observed bond prices. Using these indirect liquidity measures, we find evidence that trading frequency does significantly affect observed subordinated debt spreads. We also provide estimates for the premium of illiquidity.

The views expressed are those of the authors and do not necessarily reflect those of the Board of Governors of the Federal Reserve System or its staff

INTRODUCTION

Since the mid-1980's, a growing number of observers have proposed using subordinated debt as a vehicle for improved market discipline.¹ Because subordinated debt holders have an incentive to monitor a banking organization's financial condition, observed subordinated debt spreads could provide informative signals of these investors' perceptions. However, there are several reasons why subordinated debt spreads may not accurately reflect investor perceptions of risk.² For example, Covitz, Hancock, and Kwast (2004)³ demonstrate that the risk-sensitivity of bank funding manager decisions affect observed subordinated debt issuance spreads. And, Birchler and Hancock (2004)⁴ show that subordinated debt issuance spreads are influenced by the (less sophisticated) perceptions of senior debt investors.

In this study, we consider whether trading frequency significantly influences time-series information on large, complex, banking organization subordinated debt spreads. There are at least two reasons why this is an important topic. First, illiquid bonds, which do not trade as frequently as other bonds, may be relatively poorly priced. Consequently, it may be difficult to make inferences about investor perceptions regarding changes in a banking organization's financial condition. Second, in volatile bond markets, the uncertainty about an illiquid bond's price may be larger. But, such times may be those when supervisors may be most interested in the views of market participants.

^{1.} See Board of Governors of the Federal Reserve System and U.S. Treasury Department, "The Feasibility and Desirability of Mandatory Subordinated Debt" Report to Congress pursuant to Section 108 of the Gramm-Leach-Bliley Act of 1999 (2002), for a summary of various subordinated debt proposals.

^{2.} Bond characteristics (e.g., length of maturity, call options and the frequency of coupon payments), bond liquidity, and systematic risks are likely to affect secondary market spreads. Also, accurate bond prices may be difficult to obtain. See, for example, Hancock, D. and M.L. Kwast, 2001, "Using Subordinated Debt to Monitor Bank Holding Companies: Is it Feasible?," *Journal of Financial Services Research*, 20, pp. 147-187.

^{3.} Covitz, D.M., D. Hancock, and M.L. Kwast, 2004, "A Reconsideration of th Risk Sensitivity of U.S. Banking Organization Subordinated Debt Spreads: A Sample Selection Approach," *Federal Reserve Bank of New York Economic Policy Review* vol. 10, no. 2.

^{4.} Birchler, U., and D. Hancock. 2004. "What Does the Yield on Subordinated Bank Debt Measure?" Board of Governors of the Federal Reserve System, Finance and Economics Discussion Series no. 2004-19.

Using data on observed secondary market prices on the subordinated debt of large, complex U.S. banking organizations over the 1987:Q2 - 2002:Q4 period, we find that trading frequency does significantly affect subordinated debt spreads. Large gaps between observed prices for a bond significantly increases its spread. And, bonds that are traded highly frequently have significantly lower spreads than less frequently traded bonds.

MEASURING TRADING FREQUENCY

A direct measure of a bond's trading frequency would be its number or dollar volume of trades. But, the bond market is an over-the-counter market where the volume of trades for each bond is not disclosed. Instead, we use various indirect measures for weekly trading frequency for each bond that are derived from daily time-series information on Bloomberg "generic" bond prices. These prices are constructed using the consensus method, which averages observed trading prices after dropping the highest and lowest observations. A minimum of three observations is required, after dropping the highest and lowest observations, for a price to be valid, otherwise a missing value is entered for the trading price. This algorithm ensures that at least five trades occur on each date when a generic price is reported.

From this pricing series, we construct several trading frequency variables for each bond: (1) the number of weeks since the last generic bond price was reported, *nweeks*; (2) an indicator variable that equals one, when there has been an increase in the number of traded prices reported for adjoining weeks, *upindicator*; (3) a "low" trading frequency indicator variable, *pricefreq*^g, g=1,2 and 3, that equals one when "generic" prices are reported for only 1, 2 or 3 days in the week, and zero otherwise, and (4) a "high" trading frequency indicator variable, *pricefreq*⁵, that equals one when "generic" prices are reported for all 5 days in the week, and zero otherwise.

We consider 211 bonds traded in the secondary market over the 1987:Q2 - 2002:Q4 period, which were issued by 22 large, complex, banking organizations that have been monitored monthly by U.S. bank supervisors.⁵ For a bond to be included in the sample, its amount

^{5.} The U.S. banking organizations included in this study are AmSouth Bancorporation, Bank One Corporation, BankAmerica Corporation, Bank of New York Company, Citicorp, Chase Manhattan Corp., Comerica Incorporated, J.P. Morgan Chase & Co., Firstar Corporation, First Union Corporation, FleetBoston, Huntington Bancshares Inc., Keycorp, Mellon Financial

outstanding at issuance had to exceed \$75 million and there had to be a minimum of 20 weeks with generic prices reported by Bloomberg during the sample period.

The Appendix provides for each large, complex, banking organization a one-page summary of its subordinated notes and debenture Bloomberg generic pricing information. The top panel on each page contains a chart of end-of-week secondary market subordinated debt spreads over comparable maturity Treasury securities during the entire sample period. Solid lines in each chart appear when the weekly data are continuous. Dashed lines in each chart appear when the weekly data are discontinuous. These dashed lines are linear interpolations of spreads derived using the observed generic prices. Strikingly, these dashed lines appear well above the solid lines in cases where a banking organization has both frequently traded and infrequently traded bonds outstanding at the same time. It also appears that the dashed lines are fairly close to the solid lines when the time-series gaps are small, but are disproportionately larger as the time-series gap widens.

The bottom panel on each page contains a table with annual summary statistics on (1) the number of subordinated notes and debentures outstanding, (2) the number of such bonds with generic pricing information available from Bloomberg, (3) the number of bond-weeks with generic prices available, and (4) the number of bond-weeks with each pricing frequency, $pricefreq^f$, f=1,...,5. Looking across firms, the Bloomberg generic pricing data tend to be available for recently issued bonds, for firms with many outstanding issues, and for actively-

Corporation, PNC Financial Services Group, Inc. (but, there were no bonds issued by this organization in an amount over \$75 million), Regions Financial Corporation, Republic New York Corporation, Southtrust Corporation, SunTrust Banks, Inc., Union Planters Corporation, U.S. Bancorp, Wachovia Corporation, and Wells Fargo & Company.

^{6.} In the Appendix, the banking organizations are in alphabetical order.

^{7.} Each end-of-week spread was calculated using a three-step procedure. First, yields on each bond were derived from reported bond prices using the Newton-Raphson iterative method. Second, the term structure of Treasury interest rates was identified for each date by using a smoothing spline of the forward rate curve that incorporated a "roughness" penalty determined by generalized cross validation. (The splining technique is described in Fisher, Mark, Douglas Nychka and David Zervos, 1995, "Fitting the Term Structure of Interest Rates with Smoothing Splines," Finance and Economics Discussion Series, #95-1, Board of Governors of the Federal Reserve System, January). Third, the spread was calculated as the difference between the derived bond yield and an interpolated Treasury yield of the same maturity.

traded bonds. In fact, for some of the largest banking organizations (e.g., Bank of America, Citigroup, J.P. Morgan Chase & Co.), there is a high proportion of bond-weeks with "high" trading frequency (i.e., generic prices available for every day of the week) when generic prices were available. Banking organizations with just a few bonds outstanding (e.g., Amsouth, Comerica, and Keycorp) tend to have large gaps in their time-series for Bloomberg generic price data, but these data are more likely to be available in weeks with "high" trading frequency.

THE EMPIRICAL MODEL

Various factors other than trading frequency are expected to influence observed secondary market subordinated debt spreads. For example, market leverage (i.e., the ratio of total (book) liabilities to (the market value of common stock plus the book value of preferred stock)) has been shown to be positively related to banking organization subordinated debt spreads. This proxy for banking organization-specific default risk, *marketlev_i*, evolves each day with the firm's common stock price and shifts with movements in its quarter-end balance sheet information. Because market leverage can be calculated on a weekly basis, we used this proxy for banking organization-specific risk to gauge bond market participants' perceptions about expected default losses.

It may also be the case that investors require a risk premium that is above and beyond the expected loss from default in order to compensate for systematic, rather than diversifiable, risk. In fact, researchers have recently identified several common risk factors in U.S. stock returns and bond spreads.¹⁰ We use three of these factors: an overall stock market excess return,

^{8.} Higher market leverage should raise default risk. See Flannery, Mark J. and Sorin M. Sorescu, 1996, "Evidence of Bank Market Discipline in Subordinated Debenture Yields: 1983-1991," *Journal of Finance*, 51 (4), September, pp. 1347-1377 and Hancock, Diana and Myron L. Kwast, 2001, "Using Subordinated Debt to Monitor Bank Holding Companies: Is it Feasible?," *Journal of Financial Services Research*, 20:2/3, pp. 147-187.

^{9.} Weekly market leverage data was constructed from weekly averages for the common stock price observed for each banking organization.

^{10.} See Fama, Eugene and Kenneth R. French, 1993, "Common Risk Factors in the Returns on Stocks and Bonds," *Journal of Financial Economics*, 33, February, pp. 3 -56, and Elton, Edwin J., Martin J. Gruber, Deepak Agrawal and Christopher Mann, 2000, "Explaining the Rate Spread on Corporate Bonds, *The Journal of Finance*, 56 (1), February, pp. 247-277.

 $EXRET_t$, a measure of the performance of small firms relative to large firms, SMB_t , and a measure of the performance of value stocks relative to growth stocks, HML_t .

Center for Research in Security Prices (CRSP) data are used to compute a weekly average of daily excess stock returns, *EXRET*_t. The daily excess stock market returns are calculated as the difference between the daily value-weighted return on NYSE, Amex, and Nasdaq stocks and the off-the-run one-month Treasury return.

The relative performance measures, *SMB*_t and *HML*_t, are also calculated from CRSP data. Both of these measures depend on stratifications with respect to firm-size and with respect to book-to-market equity ratios. In each year, firms with NYSE, Amex, and Nasdaq stocks are classified as "small," when their size (price times shares) is less than the median firm size for the NYSE. And, firms are classified as "large," when their size is greater than the median firm size for the NYSE. ¹² In each year, firms are also stratified into three book-to-market equity groups based on the breakpoints for the bottom 30 percent, "low," the middle 40 percent, "medium," and the top 30 percent, "high." The relative performance measure, *SMB*_t, is calculated as the difference between returns on small-firm and big-firm stock portfolios with about the same weighted-average book-to-market equity. Similarly, the relative performance measure, *HML*_t, is calculated as the difference in returns on high- and low- book-to-market equity portfolios with about the same weighted-average size.

During periods of bond market stress, such as the post-Russian default period of August - October 1998, sharp increases in overall corporate bond spreads over Treasuries with comparable maturities can occur.¹³ To proxy for bond market risk, we use an implied stock market volatility, *bondvolatility*, which is exogenous to, but highly correlated with, bond market volatility. Our volatility measure, which is computed from CRSP data, equals the weekly standard deviation of the daily S&P 500 stock returns.

^{11.} These three risk factors were developed in Fama, Eugene and Kenneth R. French, 1993, "Common Risk Factors in the Returns on Stocks and Bonds," *Journal of Financial Economics*, 33, February, pp. 3 -56.

^{12.} June data are used for the firm size stratifications in each year of the sample.

^{13.} Increases in overall corporate bond spreads are sometimes explained by an increase in risk aversion or by a flight to quality.

To ascertain the effects of trading frequency on banking organization subordinated debt spreads, we use our panel data to estimate the following fixed-effects regression:

$$\begin{aligned} Spread_{bit} &= \alpha + \sum_{j=1}^{2} \gamma_{j} marketlev_{i,t-j} + \beta_{1} EXRET_{t} + \beta_{2} SMB_{t} + \beta_{3} HML_{t} \\ &+ \sum_{j=1}^{2} \mu_{j} bondvolatility_{t-j} + \sum_{j=1}^{2} \xi_{j} nweeks_{bt}^{j} + \xi_{3} upindicator_{bt} \\ &+ \xi_{4} pricefreq_{bt}^{123} + \xi_{5} pricefreq_{bt}^{5} + \sum_{i=1}^{21} \phi_{i} bankindicator_{i} \end{aligned}$$

where $Spread_{bit}$ is the secondary market spread on bond b at time t (issued in a previous period by banking organization i); $market\ lev_{i,t}$ is the market leverage measured for banking organization i at time t; $EXRET_p\ SMB_p\$ and $EXRET_p\ SMB_p\$ are the common risk factors at time $EXRET_p\ SMB_p\$ and $EXRET_p\ SMB_p\$ are the common risk factors at time $EXRET_p\ SMB_p\$ and $EXRET_p\ SMB_p\$ are the common risk factors at time $EXRET_p\ SMB_p\$ and $EXRET_p\ SMB_p\$ are the common risk factors at time $EXRET_p\ SMB_p\$ and $EXRET_p\ SMB_p\$ are the common risk factors at time $EXRET_p\ SMB_p\$ and $EXRET_p\ SMB_p\$ are the common risk factors at time $EXRET_p\ SMB_p\$ and $EXRET_p\ SMB_p\$ are the common risk factors at time $EXRET_p\ SMB_p\$ and $EXRET_p\ SMB_p\$ are the common risk factors at time $EXRET_p\ SMB_p\$ and $EXRET_p\ SMB_p\$ are the common risk factors at time $EXRET_p\ SMB_p\$ and $EXRET_p\ SMB_p\$ are the common risk are included because investors may be interested in how this measure is evolving organization risk are included because invest

^{14.} One bank indicator is dropped from the regression to avoid singularity. Parameter estimates for the other bank indicators can be viewed as relative to the omitted indicator.

^{15.} Because market leverage for week *t* depends on the weekly average for the common stock price observed for each banking organization, the contemporaneous market leverage variable is only known at the end-of-day on the end-of-week. Understandably, the contemporaneous market leverage variable was statistically insignificant even at the 10 percent level in model specifications that included it.

FINDINGS

Parameter estimates, t-statistics, and the R^2 for the "best-fit specification" that omits the indicator variable for $nweeks_{bt}$ for one to 26 weeks (i.e., 1 week to 6 months) and includes indicator variables for 27 to 104 weeks and for greater than 104 weeks (i.e., 2 years) are presented in Table 1. As expected, the banking organization-specific default risk proxy (i.e., the lagged marketlev variables) were not only significant, but also positive. This means that an increase in default risk increased observed secondary market spreads. Moreover, an increase in bond market volatility, significantly increased observed banking organization secondary subordinated debt spreads: The parameter estimates on $bondvolatility_{t-1}$ and $bondvolatility_{t-2}$ are both positive and significant at the 5 percent level of confidence.

Not surprisingly, the common risk factors that affect aggregate corporate bond spreads and stock market returns also influenced banking organization subordinated debt spreads. Each of the common risk factors, *EXRET*, *SMB*, and *HML*, significantly influenced observed secondary spreads on banking organization subordinated debt instruments.

Trading frequency measures importantly influenced observed secondary spreads for banking organization subordinated debt instruments. In particular, the longer the lapse between observed traded prices, measured using $nweeks_{bi}{}^{j}$, the higher the secondary subordinated debt spread. Bonds that did not have generic prices available for 27 to 104 weeks had spreads that were, on average, 19 basis points higher than bonds with generic prices available more frequently. And, spreads on bonds that did not have generic prices available for two years or longer were on average 64 basis points higher than spreads on bonds that had such prices available within a six-month period.¹⁷ This is economically significant since the average spread observed for the sample period was only 101.78 basis points. Surprisingly, generic pricing

^{16.} Indicator variables of lengths one week, two to four weeks, five to 12 weeks, and 13 to 26 weeks were individually and together insignificant at the five and ten percent level of confidence. Similarly, parameter estimates for indicators between 27 and 104 weeks were not significantly different from one another, so the more parsimonious specification is reported here.

^{17.} Inclusion of interaction terms between the *nweeks* indicator variables and conteporaneous bond market volatility measures in the model suggest that the spread differential between actively- and inactively-traded bonds rises with bond market volatility.

lapses of less than six months did not materially or significantly affect spreads. This is likely why data sources that employ matrix prices (e.g., Bloomberg Fair Value and Interactive Data Corporation) remain popular with market practitioners.

In addition, the weekly trading frequency indicator variables were statistically significant, of the expected sign, and of plausible magnitude. The "high" trading frequency indicator ($pricefreq_{bt}^{5}$) parameter estimate is significant and equal to -0.016. This means that spreads on bonds that have generic prices available for each day of the week are about 1.6 basis points lower than spreads on bonds that have generic prices available less frequently during the week. The insignificant "low" trading frequency indicator ($pricefreq_{bt}^{123}$) parameter estimate means that trading four days per week does not reduce the spread that is observed when a bond trades only 1, 2 or 3 days per week.

The parameter estimate on the indicator variable, *upindicator*, which signaled an increase in the number of generic prices reported for adjoining weeks, was not statistically significant though it was of the expected (i.e., negative) sign. This finding is consistent with the lack of a statistical difference in the spreads for bonds traded between one and four times per week. What really matters is whether a generic price is available all the time (i.e., every day during the week), or less frequently.

Banking organization-specific effects importantly influenced observed secondary spreads. The parameter estimates for the banking organization indicators are ordered in Table 1 so that the largest banking organization (measured using total consolidated assets) is first and the smallest banking organization is last. Larger banking organizations tend to have significantly lower spreads than smaller banking organizations. This finding is consistent with banking organization asset size importantly influencing observed secondary spreads even after the inclusion of many default risk proxies. Negative indicator variables for some of the regional banks (e.g., Keycorp and Mellon) are consistent with market participant views that the spreads

^{18.} Since some of the organizations no longer exist, banking organizations are ordered by their total asset size in their last year of existence during the sample period.

^{19.} See Flannery, Mark J. and Sorin M. Sorescu, 1996, "Evidence of Bank Market Discipline in Subordinated Debenture Yields: 1983-1991," *Journal of Finance*, 51 (4), September, pp. 1347-1377.

for debt issued by "known names" are lower than the spreads for debt issued by other banking organizations.²⁰

CONCLUSION

Trading frequency measures significantly influence the observed subordinated debt spreads on instruments issued by large domestic banking organizations. When a bond does not have generic prices available for every business day during the week, its observed spreads will be about 1.5 basis points higher. When a bond has not received a generic price on Bloomberg for between 6 months and two years, it will have a spread that is about 20 basis points higher than a bond that has traded within the last six months. And, when the interval between generic prices is longer than two years, the spread will typically be 64 basis points higher than for a bond that has generic prices available within the preceding six month period. These rules-of-thumb derived from the estimated time-series model can potentially be used to adjust banking organization subordinated debt spreads calculated from observed generic prices to place frequently- and infrequently-traded bonds on a more comparable basis.

^{20.} Board of Governors of the Federal Reserve System, 1999, "Using Subordinated Debt as an Instrument of Market Discipline," Staff Study #172, December, pp. 46-47.

TABLE 1: THE EFFECTS OF TRADING FREQUENCY ON BANK SUBORDINATED DEBT SPREADS (22 Large, Complex, Banking Organizations, 206 Subordinated Instruments, Weekly Data, 1987-2002)

DEPENDENT VARIABLES	PARAMETER ESTIMATE	T-STATISTIC
Bank-specific Risk Measures		
marketlev _{i, t-1}	0.011	2.67
marketlev _{i, t-2}	0.049	11.73
Common Risk Factors		
EXRET _t	-3.855	-7.84
SMB_t	3.375	10.12
HML_{t}	-4.000	-9.13
Bond Market Volatility Measure		
bondvolatility _{t-1}	0.125	28.72
bondvolatility _{t-2}	0.134	30.98
Trading Frequency Measures		
nweeks _b ^{27,104}	0.192	5.24
nweeks _b greater than 104	0.642	3.32
upindicator _{b, t}	-0.005	-0.88
Pricefreq _{b,t} ¹²³	-0.001	-0.18
Pricefreq _{b.t} ⁵	-0.016	-2.13
Banking Organization-Specific Indicators		
J.P. Morgan Chase	-0.297	-18.89
Chase Manhattan	-0.158	-10.17
Citicorp	-0.139	-8.70
Bank of America	-0.151	-10.04
Wachovia	-0.108	-5.84
BancOne	-0.004	-0.23
First Union	-0.197	-11.77
Fleet Financial	0.054	2.85
US Bancorp	-0.021	-0.82
Suntrust	0.266	5.56
Society (Keycorp)	-0.110	-4.10
Firstar	0.444	10.58
Bank of New York	-0.200	-9.56
Comerica	0.020	0.81
Republic NY	-0.668	-37.15
Southtrust	0.110	3.28
Regions	-0.112	-2.30
Amsouth	0.040	1.39
Mellon	-0.841	-18.96
Union Planters	0.569	8.57
Huntington	-0.242	-6.84
Goodness of Fit Measure		
R^2	0.25	

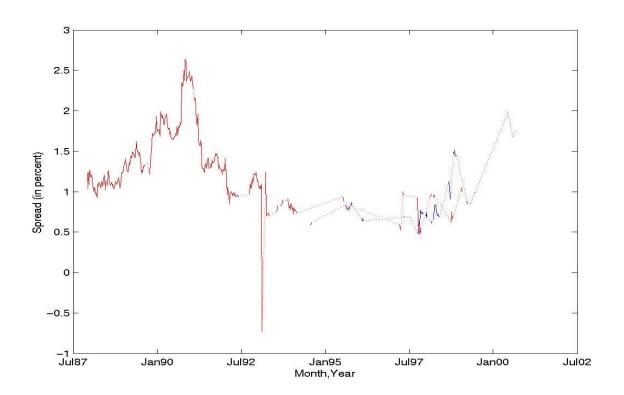
Note: The bank indicator variable for Wells Fargo was omitted from the regression. Remaining banking organizations are ordered by their total asset size in their last year of existence during the sample period.

APPENDIX:

SUMMARY OF SUBORDINATED NOTES AND DEBENTURE PRICING INFORMATION FOR LARGE, COMPLEX BANKING ORGANIZATIONS

AMSOUTH BANCORPORATION

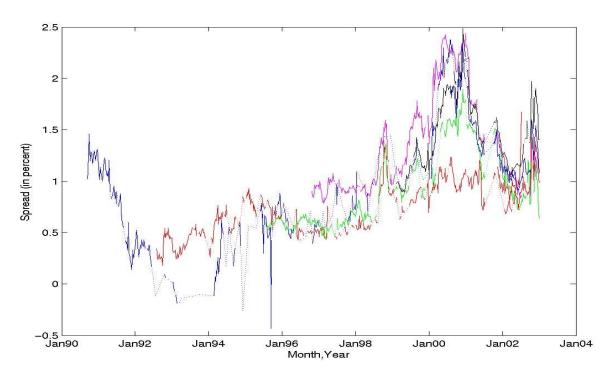
RSSD = 1078604 TICKER = ASO



				Y	ear			
	1987	1988	1989	1990	1991	1992	1993	1994
Number of SND Outstanding	1	1	1	1	1	1	1	2
Number of SND with Generic Pricing	1	1	1	1	1	1	1	2
Percentage of SND with Generic Pricing	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Number of Bond-Weeks	35	52	52	52	52	52	52	85
Number of Bond-Weeks with Generic Pricing	5	51	47	50	51	37	30	10
Percentage of Bond-Weeks with Generic Pricing	14.29%	98.08%	90.38%	96.15%	98.08%	71.15%	57.69%	11.76%
Number of Bond-Weeks with Various Frequencies								
5	3	40	32	45	31	32	18	8
4	2	11	8	3	11	3	3	0
3	0	0	2	0	4	0	4	0
2	0	0	2	1	2	1	4	1
1	0	0	3	1	3	1	1	1
				V	ear			
	1995	1996	1997	1998	1999	2000	2001	2002
Number of SND Outstanding	3	3	3	3	4	3	3	3
Number of SND with Generic Pricing	2	1	2	2	2	1	0	0
Percentage of SND with Generic Pricing	66.67%	33.33%	66.67%	66.67%	50.00%	33.33%	0.00%	0.00%
Number of Bond-Weeks	113	156	156	156	167	156	156	156
Number of Bond-Weeks with Generic Pricing	14	4	24	36	8	5	0	0
Percentage of Bond-Weeks with Generic Pricing	12.39%	2.56%	15.38%	23.08%	4.79%	3.21%	0.00%	0.00%
Number of Bond-Weeks with Various Frequencies								
5	8	2	10	17	3	0	0	0
4	2	1	9	6	1	0	0	0
3	1	1	3	3	0	3	0	0
2	3	0	1	8	2	1	0	0
1	0	0	1	2	2	1	0	0

BANC ONE CORPORATION

RSSD = 1068294 TICKER = ONE



				Y	ear			
	1987	1988	1989	1990	1991	1992	1993	1994
Number of SND Outstanding	0	0	1	2	3	4	4	4
Number of SND with Generic Pricing	0	0	0	1	1	2	2	2
Percentage of SND with Generic Pricing	N/A	N/A	0.00%	50.00%	33.33%	50.00%	50.00%	50.00%
Number of Bond-Weeks	0	0	44	72	120	179	208	208
Number of Bond-Weeks with Generic Pricing	0	0	0	16	48	49	54	63
Percentage of Bond-Weeks with Generic Pricing	N/A	N/A	0.00%	22.22%	40.00%	27.37%	25.96%	30.29%
Number of Bond-Weeks with Various Frequencies								
5	N/A	N/A	0	13	18	26	43	30
4	N/A	N/A	0	2	12	10	3	10
3	N/A	N/A	0	0	4	7	2	5
2	N/A	N/A	0	1	4	2	2	6
1	N/A	N/A	0	0	10	4	4	12
				Y	ear			
	1995	1996	1997	1998	1999	2000	2001	2002
Number of SND Outstanding	6	7	9	9	10	11	12	13
Number of SND with Generic Pricing	3	4	4	4	5	6	6	6
Percentage of SND with Generic Pricing	50.00%	57.14%	44.44%	44.44%	50.00%	54.55%	50.00%	46.15%

Number of Bond-Weeks with Various Frequencies								
5	56	86	109	108	106	208	169	237
4	8	8	8	17	23	15	9	18
3	5	10	15	11	17	11	6	1
2	9	7	5	6	12	10	1	7
1	17	10	9	11	15	9	2	5

322

121

37.58%

436

146

33.49%

468

153

32.69%

515

173

33.59%

543

253

46.59%

579

187

32.30%

614

268

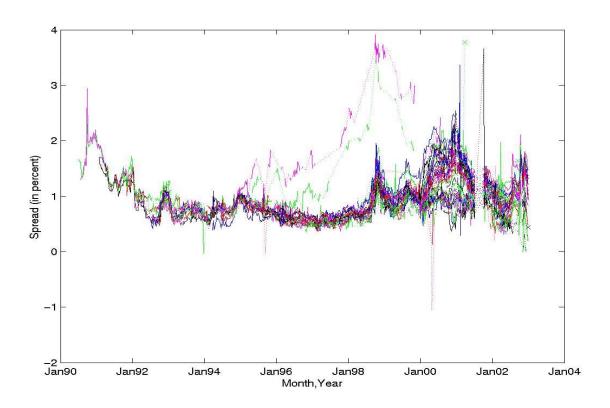
43.65%

256

95

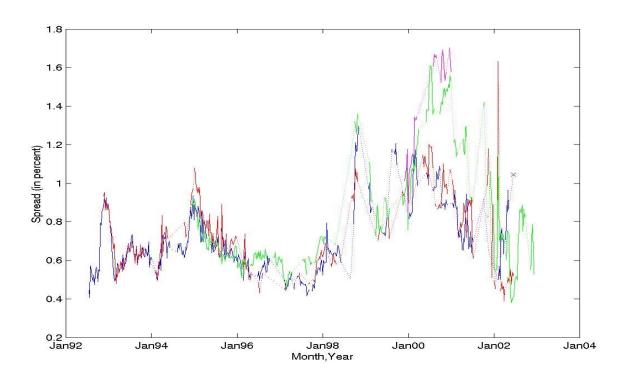
Number of Bond-Weeks

Number of Bond-Weeks with Generic Pricing Percentage of Bond-Weeks with Generic Pricing



				Y	ear			
	1987	1988	1989	1990	1991	1992	1993	1994
Number of SND Outstanding	4	4	6	9	15	22	28	34
Number of SND with Generic Pricing	0	0	0	2	6	12	13	17
Percentage of SND with Generic Pricing	0.00%	0.00%	0.00%	22.22%	40.00%	54.55%	46.43%	50.00%
	•		•	•	•	•		•
Number of Bond-Weeks	189	208	263	386	696	961	1317	1587
Number of Bond-Weeks with Generic Pricing	0	0	0	49	273	404	560	626
Percentage of Bond-Weeks with Generic Pricing	0.00%	0.00%	0.00%	12.69%	39.22%	42.04%	42.52%	39.45%
Number of Bond-Weeks with Various Frequencies								
5	0	0	0	46	167	280	434	460
4	0	0	0	2	43	48	39	62
3	0	0	0	0	31	35	31	48
2	0	0	0	1	18	22	25	33
1	0	0	0	0	14	19	31	23
				Y	ear			
	1995	1996	1997	1998	1999	2000	2001	2002
Number of SND Outstanding	38	45	46	47	47	46	52	49
Number of SND with Generic Pricing	18	21	24	39	38	38	36	31
Percentage of SND with Generic Pricing	47.37%	46.67%	52.17%	82.98%	80.85%	82.61%	69.23%	63.27%
Number of Bond-Weeks	1851	2128	2304	2416	2373	2342	2390	2339
Number of Bond-Weeks with Generic Pricing	691	813	876	1355	1345	1666	1152	1137
Percentage of Bond-Weeks with Generic Pricing	37.33%	38.20%	38.02%	56.08%	56.68%	71.14%	48.20%	48.61%
Number of Bond-Weeks with Various Frequencies								
5	544	607	702	996	906	1417	1001	892
4	52	79	48	132	191	80	39	65
3	38	38	42	98	112	64	42	40

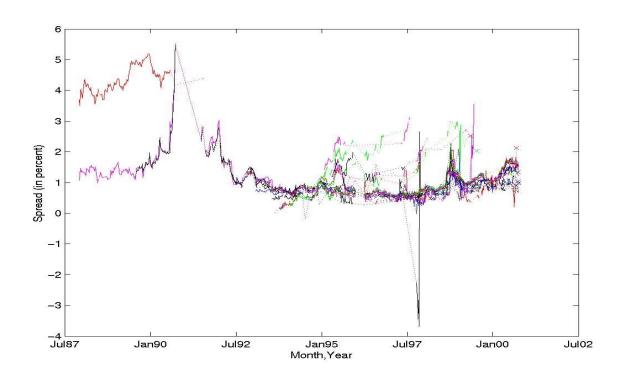
BANK OF NY CO. RSSD = 1033470 TICKER = BK



	Year							
	1987	1988	1989	1990	1991	1992	1993	1994
Number of SND Outstanding	2	2	2	2	3	5	7	8
Number of SND with Generic Pricing	0	0	0	0	0	2	2	3
Percentage of SND with Generic Pricing	0.00%	0.00%	0.00%	0.00%	0.00%	40.00%	28.57%	37.50%
Number of Bond-Weeks	104	104	104	104	123	188	294	368
Number of Bond-Weeks with Generic Pricing	0	0	0	0	0	32	95	69
Percentage of Bond-Weeks with Generic Pricing	0.00%	0.00%	0.00%	0.00%	0.00%	17.02%	32.31%	18.75%
Number of Bond-Weeks with Various Frequencies								
5	0	0	0	0	0	29	88	55
4	0	0	0	0	0	2	3	3
3	0	0	0	0	0	0	1	3
2	0	0	0	0	0	0	2	5
1	0	0	0	0	0	1	1	3
				Y	ear			
	1995	1996	1997	1998	1999	2000	2001	2002
Number of SND Outstanding	8	8	7	8	9	9	9	11
Number of SND with Generic Pricing	3	3	3	3	4	4	3	3
Percentage of SND with Generic Pricing	37.50%	37.50%	42.86%	37.50%	44.44%	44.44%	33.33%	27.27%
Number of Bond-Weeks	416	377	334	400	421	468	449	456
	149	90	94	69	61	128	84	78
Number of Bond-Weeks with Generic Pricing Percentage of Bond-Weeks with Generic Pricing	35.82%	23.87%	28.14%	17.25%	14.49%	27.35%	18.71%	17.11%
rescentage of Boliu-weeks with Generic Pricing	33.8270	23.8770	20.1470	17.2370	14.4970	41.3370	10./170	1/.1170
Number of Bond-Weeks with Various Frequencies								
1						1		

CHASE MANHATTAN CORPORATION

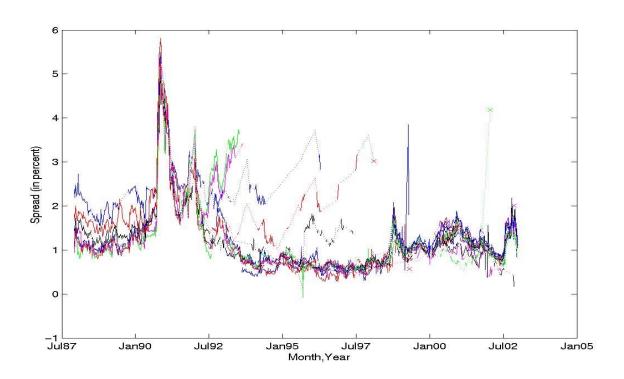
RSSD = 1039502 (1040795 prior to 3/31/1996) TICKER = CMB



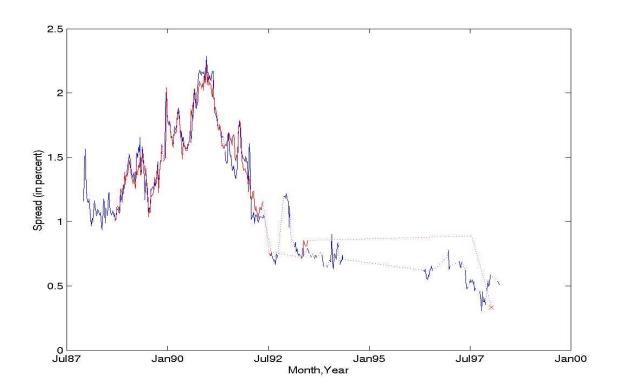
				Ye	ear			
	1987	1988	1989	1990	1991	1992	1993	1994
Number of SND Outstanding	4	5	8	8	10	20	34	41
Number of SND with Generic Pricing	3	3	5	5	6	12	17	22
Percentage of SND with Generic Pricing	75.00%	60.00%	62.50%	62.50%	60.00%	60.00%	50.00%	53.66%
Number of Bond-Weeks	124	218	353	416	432	769	1437	2025
Number of Bond-Weeks with Generic Pricing	15	153	200	188	102	335	671	759
Percentage of Bond-Weeks with Generic Pricing	12.10%	70.18%	56.66%	45.19%	23.61%	43.56%	46.69%	37.48%
Number of Bond-Weeks with Various Frequencies								
5	9	120	178	174	22	198	571	577
4	6	33	19	9	33	36	47	75
3	0	0	2	0	22	36	23	42
2	0	0	0	4	14	40	21	31
1	0	0	1	1	11	25	9	34
				Ye	ear			
	1995	1996	1997	1998	1999	2000	2001	2002
Number of SND Outstanding	49	49	52	54	56	48	N/A	N/A
Number of SND with Generic Pricing	30	37	42	37	36	25	N/A	N/A
Percentage of SND with Generic Pricing	61.22%	75.51%	80.77%	68.52%	64.29%	52.08%	N/A	N/A
NY 1 CD 1XX/1								
Number of Bond-Weeks	2466	2547	2653	2737	2685	2397	N/A	N/A
Number of Bond-Weeks Number of Bond-Weeks with Generic Pricing	2466 1029	2547 649	2653 1065	2737 1041	2685 932	2397 646	N/A N/A	N/A N/A
Number of Bond-Weeks with Generic Pricing	1029	649	1065 40.14%	1041 38.03%	932	646	N/A N/A	N/A N/A
Number of Bond-Weeks with Generic Pricing Percentage of Bond-Weeks with Generic Pricing	1029 41.73%	649 25.48% 421	1065 40.14% 728	1041 38.03% 700	932 34.71%	646 26.95% 467	N/A N/A	N/A N/A
Number of Bond-Weeks with Generic Pricing Percentage of Bond-Weeks with Generic Pricing Number of Bond-Weeks with Various Frequencies 5 4	1029 41.73% 776 82	649 25.48% 421 72	1065 40.14% 728 97	1041 38.03% 700 127	932 34.71% 643 116	646 26.95% 467 55	N/A N/A N/A N/A	N/A N/A N/A N/A
Number of Bond-Weeks with Generic Pricing Percentage of Bond-Weeks with Generic Pricing Number of Bond-Weeks with Various Frequencies 5	1029 41.73%	649 25.48% 421 72 49	1065 40.14% 728	1041 38.03% 700 127 93	932 34.71% 643 116 75	646 26.95% 467 55 37	N/A N/A N/A N/A N/A	N/A N/A
Number of Bond-Weeks with Generic Pricing Percentage of Bond-Weeks with Generic Pricing Number of Bond-Weeks with Various Frequencies 5 4	1029 41.73% 776 82	649 25.48% 421 72	1065 40.14% 728 97	1041 38.03% 700 127	932 34.71% 643 116	646 26.95% 467 55	N/A N/A N/A N/A	N/A N/A N/A N/A

^{**} Chase Manhattan Corporation merged into J.P. Morgan Chase & Co. on 12/31/2000

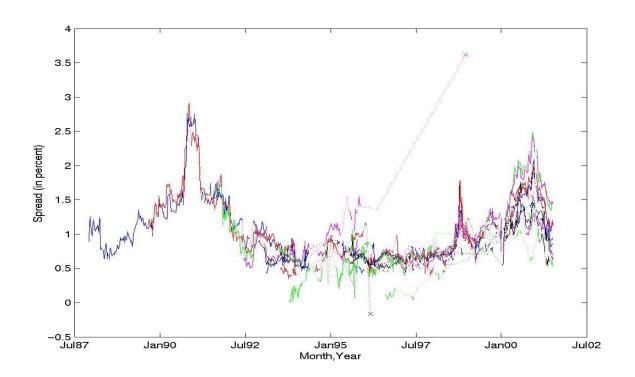
CITICORP RSSD = 1951350, 1042351 TICKER = C, CCI



				Y	ear			
	1987	1988	1989	1990	1991	1992	1993	1994
Number of SND Outstanding	11	11	11	11	11	13	15	18
Number of SND with Generic Pricing	7	7	7	7	7	9	11	10
Percentage of SND with Generic Pricing	63.64%	63.64%	63.64%	63.64%	63.64%	69.23%	73.33%	55.56%
Number of Bond-Weeks	525	572	572	572	572	622	739	892
Number of Bond-Weeks with Generic Pricing	35	357	343	352	273	329	344	358
Percentage of Bond-Weeks with Generic Pricing	6.67%	62.41%	59.97%	61.54%	47.73%	52.89%	46.55%	40.13%
Number of Bond-Weeks with Various Frequencies								
5	21	280	295	314	112	187	257	258
4	14	77	40	26	39	42	24	30
3	0	0	2	3	47	42	20	26
2	0	0	2	4	38	27	21	26
1	0	0	4	5	37	31	22	18
				Y	ear			
	1995	1996	1997	1998	1999	2000	2001	2002
Number of SND Outstanding	21	23	24	25	25	22	22	22
Number of SND with Generic Pricing	11	16	17	17	16	14	13	13
Percentage of SND with Generic Pricing	52.38%	69.57%	70.83%	68.00%	64.00%	63.64%	59.09%	59.09%
Number of Bond-Weeks	955	1084	1153	1232	1208	1144	1144	1094
Number of Bond-Weeks with Generic Pricing	392	523	556	493	453	591	575	507
Percentage of Bond-Weeks with Generic Pricing	41.05%	48.25%	48.22%	40.02%	37.50%	51.66%	50.26%	46.34%
referringe of Bond-weeks with Generic Frienig	41.03/0	40.23/0	40.22/0	40.0270	37.3070	31.00/0	30.2070	40.3470
Number of Bond-Weeks with Various Frequencies								
5	313	416	425	340	306	459	501	408
4	26	44	33	43	71	39	23	30
3	18	19	36	41	35	33	13	19
2	16	21	35	34	21	18	15	27



				Ye	ear			
	1987	1988	1989	1990	1991	1992	1993	1994
Number of SND Outstanding	1	2	2	2	2	2	2	2
Number of SND with Generic Pricing	1	2	2	2	2	2	2	1
Percentage of SND with Generic Pricing	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	50.00%
	•	•				•		
Number of Bond-Weeks	34	85	104	104	104	104	104	104
Number of Bond-Weeks with Generic Pricing	5	67	102	104	103	62	40	18
Percentage of Bond-Weeks with Generic Pricing	14.71%	78.82%	98.08%	100.00%	99.04%	59.62%	38.46%	17.31%
Number of Bond-Weeks with Various Frequencies								
5	3	50	88	100	67	46	10	15
4	2	17	10	4	11	8	4	2
3	0	0	0	0	14	4	15	0
2	0	0	2	0	4	1	7	1
1	0	0	2	0	7	3	4	0
				Υé	ear			
	1995	1996	1997	1998	1999	2000	2001	2002
Number of SND Outstanding	3	3	3	3	2	1	1	1
Number of SND with Generic Pricing	0	1	2	2	0	0	0	0
Percentage of SND with Generic Pricing	0.00%	33.33%	66.67%	66.67%	0.00%	0.00%	0.00%	0.00%
Number of Bond-Weeks	126	156	156	127	70	52	52	52
Number of Bond-Weeks with Generic Pricing	0	16	33	5	0	0	0	0
Percentage of Bond-Weeks with Generic Pricing	0.00%	10.26%	21.15%	3.94%	0.00%	0.00%	0.00%	0.00%
Number of Bond-Weeks with Various Frequencies								
5	0	14	21	2	0	0	0	0
4	0	0	1	0	0	0	0	0
3	0	1	3	0	0	0	0	0
2	0	0	5	2	0	0	0	0
1	0	1	3	1	0	0	0	0

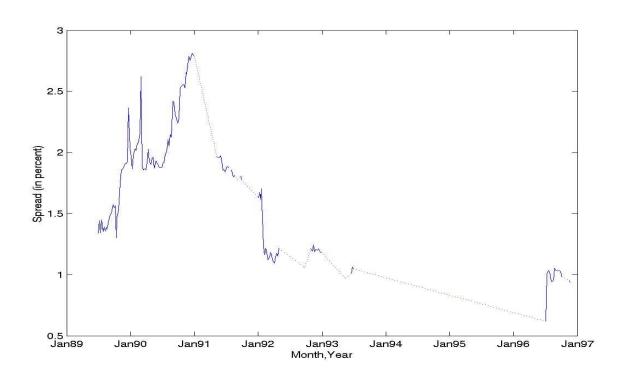


				Y	ear		5 9 5 8 0.00% 88.89% 7 190 371 184 300					
	1987	1988	1989	1990	1991	1992	1993	1994				
Number of SND Outstanding	1	1	2	2	3	5	9	12				
Number of SND with Generic Pricing	1	1	2	2	3	5	8	9				
Percentage of SND with Generic Pricing	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	88.89%	75.00%				
Number of Bond-Weeks	43	52	81	104	124	190	371	550				
Number of Bond-Weeks with Generic Pricing	5	51	69	102	117	184	300	170				
Percentage of Bond-Weeks with Generic Pricing	11.63%	98.08%	85.19%	98.08%	94.35%	96.84%	80.86%	30.91%				
Number of Bond-Weeks with Various Frequencies												
5	3	40	57	92	68	137	256	108				
4	2	11	6	8	20	20	23	18				
3	0	0	3	0	13	11	12	13				
2	0	0	2	2	9	11	4	19				
1	0	0	1	0	7	5	5	12				
				V	ear							
	1995	1996	1997	1998	1999	2000	2001	2002				
Number of SND Outstanding	16	19	18	20	20	19	19	N/A				
Number of SND with Generic Pricing	11	13	11	14	13	12	11	N/A				
Percentage of SND with Generic Pricing	68.75%	68.42%	61.11%	70.00%	65.00%	63.16%	57.89%	N/A				
Number of Bond-Weeks	710	920	936	1015	1013	988	969	N/A				
Number of Bond-Weeks with Generic Pricing	315	369	298	316	242	404	234	N/A				
Percentage of Bond-Weeks with Generic Pricing	44.37%	40.11%	31.84%	31.13%	23.89%	40.89%	24.15%	N/A				
Number of Bond-Weeks with Various Frequencies												
5	235	289	201	206	151	302	204	N/A				
4	22	34	30	27	29	36	7	N/A				
3	17	16	29	31	25	22	10	N/A				
2	19	12	20	30	18	18	3	N/A				
1	22	18	18	22	19	26	10	N/A				

^{***} Acquired by Wachovia on 9/1/2001

FIRSTAR CORP

RSSD = 1199479 (1123960 prior to 6/30/1989; currently owned by US Bancorp) TICKER = FSR



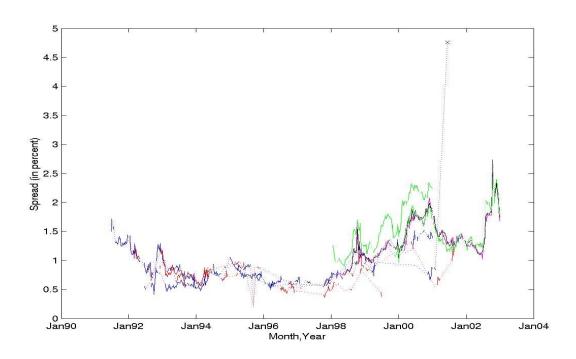
				Ye	ear			
	1987	1988	1989	1990	1991	1992	1993	1994
Number of SND Outstanding	0	1	1	1	1	1	1	1
Number of SND with Generic Pricing	0	0	1	1	1	1	1	0
Percentage of SND with Generic Pricing	N/A	0.00%	100.00%	100.00%	100.00%	100.00%	100.00%	0.00%
Number of Bond-Weeks	0	35	52	52	52	52	52	52
Number of Bond-Weeks with Generic Pricing	0	0	27	52	19	29	4	0
Percentage of Bond-Weeks with Generic Pricing	N/A	0.00%	51.92%	100.00%	36.54%	55.77%	7.69%	0.00%
Number of Bond-Weeks with Various Frequencies								
5	N/A	N/A	20	46	7	20	1	N/A
4	N/A	N/A	3	3	4	3	1	N/A
3	N/A	N/A	1	1	2	3	0	N/A
2	N/A	N/A	2	0	3	1	1	N/A
1	N/A	N/A	1	2	3	2	1	N/A
				V	ear			
	1995	1996	1997	1998	1999	2000	2001	2002
Number of SND Outstanding	2	2	2	2	N/A	N/A	N/A	N/A
Number of SND with Generic Pricing	0	1	0	0	N/A	N/A	N/A	N/A
Percentage of SND with Generic Pricing	0.00%	50.00%	0.00%	0.00%	N/A	N/A	N/A	N/A
	•		•					
Number of Bond-Weeks	71	104	104	70	N/A	N/A	N/A	N/A
Number of Bond-Weeks with Generic Pricing	0	16	0	0	N/A	N/A	N/A	N/A
Percentage of Bond-Weeks with Generic Pricing	0.00%	15.38%	0.00%	0.00%	N/A	N/A	N/A	N/A
Number of Bond-Weeks with Various Frequencies								
5	N/A	10	N/A	N/A	N/A	N/A	N/A	N/A
4	N/A	2	N/A	N/A	N/A	N/A	N/A	N/A
3	N/A	2	N/A	N/A	N/A	N/A	N/A	N/A
2	N/A	2	N/A	N/A	N/A	N/A	N/A	N/A
1	N/A	0	N/A	N/A	N/A	N/A	N/A	N/A

^{***} Acquired by US Bancorp on 12/31/1998

FLEETBOSTON FINANCIAL CORP

RSSD = 1113514

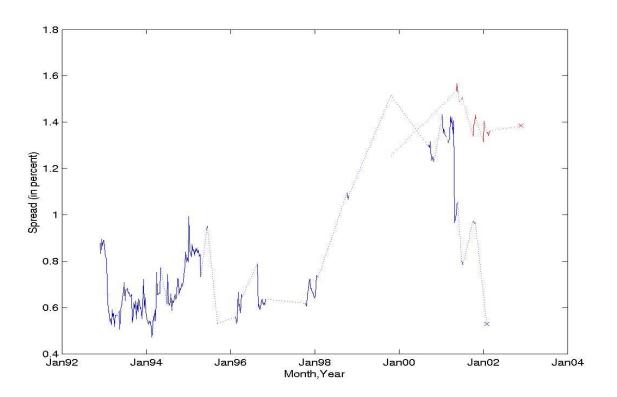




				Ye	ear			
	1987	1988	1989	1990	1991	1992	1993	1994
Number of SND Outstanding	0	0	0	0	2	5	6	6
Number of SND with Generic Pricing	0	0	0	0	2	4	4	4
Percentage of SND with Generic Pricing	N/A	N/A	N/A	N/A	100.00%	80.00%	66.67%	66.67%
Number of Bond-Weeks	0	0	0	0	33	186	305	312
Number of Bond-Weeks with Generic Pricing	0	0	0	0	25	80	169	92
Percentage of Bond-Weeks with Generic Pricing	N/A	N/A	N/A	N/A	75.76%	43.01%	55.41%	29.49%
Number of Bond-Weeks with Various Frequencies	.	T	T					
5	N/A	N/A	N/A	N/A	7	39	136	67
4	N/A	N/A	N/A	N/A	5	13	16	5
3	N/A	N/A	N/A	N/A	5	7	8	6
2	N/A	N/A	N/A	N/A	5	14	4	8
1	N/A	N/A	N/A	N/A	3	7	5	6
				Ye	ear			
	1995	1996	1997	1998	1999	2000	2001	2002
Number of SND Outstanding	6	7	7	12	13	12	12	10
Number of SND with Generic Pricing	4	4	4	7	8	7	5	3
Percentage of SND with Generic Pricing	66.67%	57.14%	57.14%	58.33%	61.54%	58.33%	41.67%	30.00%
Number of Bond-Weeks	312	350	364	551	626	624	592	520
Number of Bond-Weeks with Generic Pricing	100	74	58	183	162	230	153	150
Percentage of Bond-Weeks with Generic Pricing	32.05%	21.14%	15.93%	33.21%	25.88%	36.86%	25.84%	28.85%
Number of Bond-Weeks with Various Frequencies								
5	82	44	38	138	118	197	135	121
4	4	12	9	14	23	13	5	11
3	2	11	4	11	6	11	4	6
2	7	4	3	11	9	4	5	6
								1

HUNTINGTON BANCSHARES

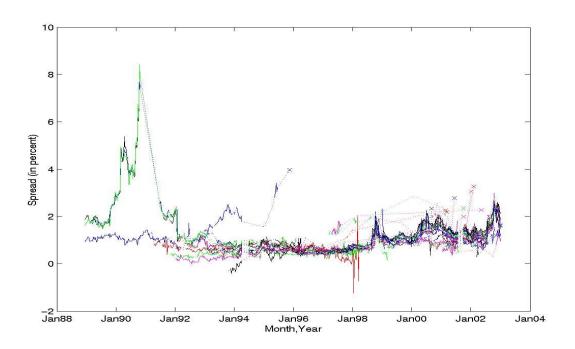
RSSD = 1068191TICKER = HBAN



	Year								
	1987	1988	1989	1990	1991	1992	1993	1994	
Number of SND Outstanding	0	0	0	0	0	1	1	1	
Number of SND with Generic Pricing	0	0	0	0	0	1	1	1	
Percentage of SND with Generic Pricing	N/A	N/A	N/A	N/A	N/A	100.00%	100.00%	100.00%	
Number of Bond-Weeks	0	0	0	0	0	6	52	52	
Number of Bond-Weeks with Generic Pricing	0	0	0	0	0	6	51	46	
Percentage of Bond-Weeks with Generic Pricing	N/A	N/A	N/A	N/A	N/A	100.00%	98.08%	88.46%	
Number of Bond-Weeks with Various Frequencies									
5	0	0	0	0	0	5	46	41	
4	0	0	0	0	0	1	1	2	
3	0	0	0	0	0	0	3	1	
2	0	0	0	0	0	0	1	1	
1	0	0	0	0	0	0	0	1	
				Y	ear				
	1995	1996	1997	1998	1999	2000	2001	2002	
Number of SND Outstanding	1	1	1	3	3	3	3	3	
Number of SND with Generic Pricing	1	1	1	1	2	1	2	2	
Percentage of SND with Generic Pricing	100.00%	100.00%	100.00%	33.33%	66.67%	33.33%	66.67%	66.67%	
	•	•				•			
Number of Bond-Weeks	52	52	52	110	156	156	156	150	
Number of Bond-Weeks with Generic Pricing	19	20	12	8	2	9	37	9	
Percentage of Bond-Weeks with Generic Pricing	36.54%	38.46%	23.08%	7.27%	1.28%	5.77%	23.72%	6.00%	
Number of Bond-Weeks with Various Frequencies									
5	14	11	9	4	0	1	24	4	
4	1	2	3	2	0	0	6	1	
3	1	4	0	1	0	0	2	1	
2	1	2	0	4	2	1	3	2	
	1		U	-	2	1	3	2	

J.P. MORGAN CHASE & CO (J.P. MORGAN)

RSSD = 1039502 (1037115 prior to 12/31/2000) TICKER = JPM

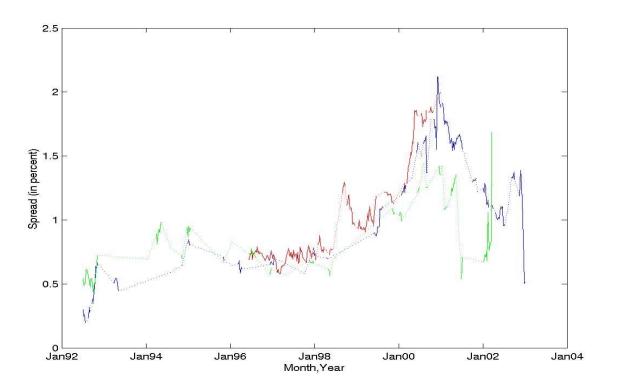


	Year								
	1987	1988	1989	1990	1991	1992	1993	1994	
Number of SND Outstanding	2	4	5	5	8	12	15	19	
Number of SND with Generic Pricing	0	3	4	4	6	10	13	16	
Percentage of SND with Generic Pricing	0.00%	75.00%	80.00%	80.00%	75.00%	83.33%	86.67%	84.21%	
Number of Bond-Weeks	52	119	251	260	331	579	733	902	
Number of Bond-Weeks with Generic Pricing	0	9	199	180	166	388	540	416	
Percentage of Bond-Weeks with Generic Pricing	0.00%	7.56%	79.28%	69.23%	50.15%	67.01%	73.67%	46.12%	
Number of Bond-Weeks with Various Frequencies									
5	0	6	175	166	71	293	441	326	
4	0	3	20	8	41	38	32	38	
3	0	0	1	0	30	20	28	17	
2	0	0	2	4	14	17	19	14	
1	0	0	1	2	10	20	20	21	
				Ye	ear				
	1995	1996	1997	1998	1999	2000	2001	2002	
Number of SND Outstanding	22	26	38	39	37	85			
		20			51	83	82	80	
Number of SND with Generic Pricing	18	19	25	23	21	42	82 41	80 35	
Number of SND with Generic Pricing Percentage of SND with Generic Pricing									
- C	18	19	25	23	21	42	41	35	
Percentage of SND with Generic Pricing Number of Bond-Weeks	18 81.82%	19 73.08%	25 65.79%	23 58.97%	21 56.76%	42 49.41%	41 50.00%	35 43.75%	
Percentage of SND with Generic Pricing	18 81.82% 992	19 73.08%	25 65.79%	23 58.97%	21 56.76%	42 49.41% 1892	41 50.00% 4195	35 43.75% 3676	
Percentage of SND with Generic Pricing Number of Bond-Weeks Number of Bond-Weeks with Generic Pricing	18 81.82% 992 619	19 73.08% 1313 672	25 65.79% 1711 778	23 58.97% 1960 661	21 56.76% 1855 595	42 49.41% 1892 500	41 50.00% 4195 1284	35 43.75% 3676 1159	
Percentage of SND with Generic Pricing Number of Bond-Weeks Number of Bond-Weeks with Generic Pricing Percentage of Bond-Weeks with Generic Pricing	18 81.82% 992 619	19 73.08% 1313 672	25 65.79% 1711 778	23 58.97% 1960 661	21 56.76% 1855 595	42 49.41% 1892 500	41 50.00% 4195 1284	35 43.75% 3676 1159	
Percentage of SND with Generic Pricing Number of Bond-Weeks Number of Bond-Weeks with Generic Pricing Percentage of Bond-Weeks with Generic Pricing Number of Bond-Weeks with Various Frequencies	18 81.82% 992 619 62.40%	19 73.08% 1313 672 51.18%	25 65.79% 1711 778 45.47%	23 58.97% 1960 661 33.72%	21 56.76% 1855 595 32.08%	42 49.41% 1892 500 26.43%	41 50.00% 4195 1284 30.61%	35 43.75% 3676 1159 31.53%	
Percentage of SND with Generic Pricing Number of Bond-Weeks Number of Bond-Weeks with Generic Pricing Percentage of Bond-Weeks with Generic Pricing Number of Bond-Weeks with Various Frequencies 5	18 81.82% 992 619 62.40%	19 73.08% 1313 672 51.18%	25 65.79% 1711 778 45.47%	23 58.97% 1960 661 33.72%	21 56.76% 1855 595 32.08%	42 49.41% 1892 500 26.43%	41 50.00% 4195 1284 30.61%	35 43.75% 3676 1159 31.53%	
Percentage of SND with Generic Pricing Number of Bond-Weeks Number of Bond-Weeks with Generic Pricing Percentage of Bond-Weeks with Generic Pricing Number of Bond-Weeks with Various Frequencies 5 4	18 81.82% 992 619 62.40% 504 43	19 73.08% 1313 672 51.18% 494 59	25 65.79% 1711 778 45.47% 582 67	23 58.97% 1960 661 33.72% 452 65	21 56.76% 1855 595 32.08% 473 54	42 49.41% 1892 500 26.43% 422 14	41 50.00% 4195 1284 30.61% 1119 51	35 43.75% 3676 1159 31.53% 911 82	

^{***} Acquired Chase Manhattan Corporation on 12/31/2000

SOCIETY CORP (KEYCORP)

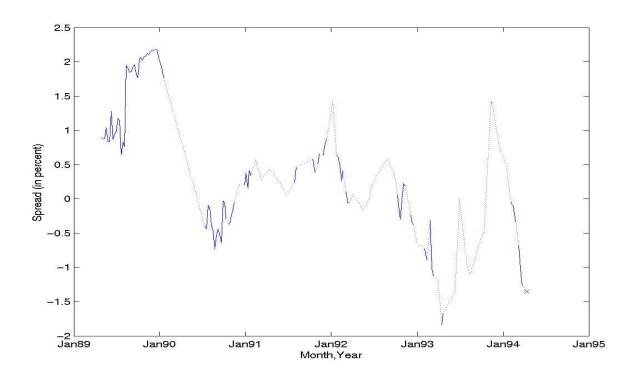
RSSD = 1068025 TICKER = KEY



	Year								
	1987	1988	1989	1990	1991	1992	1993	1994	
Number of SND Outstanding	0	0	0	0	0	2	2	2	
Number of SND with Generic Pricing	0	0	0	0	0	2	1	2	
Percentage of SND with Generic Pricing	N/A	N/A	N/A	N/A	N/A	100.00%	50.00%	100.00%	
Number of Bond-Weeks	0	0	0	0	0	54	104	104	
Number of Bond-Weeks with Generic Pricing	0	0	0	0	0	33	6	18	
Percentage of Bond-Weeks with Generic Pricing	N/A	N/A	N/A	N/A	N/A	61.11%	5.77%	17.31%	
Number of Bond-Weeks with Various Frequencies									
5	N/A	N/A	N/A	N/A	N/A	25	6	11	
4	N/A	N/A	N/A	N/A	N/A	3	0	0	
3	N/A	N/A	N/A	N/A	N/A	0	0	2	
2	N/A	N/A	N/A	N/A	N/A	3	0	2	
1	N/A	N/A	N/A	N/A	N/A	2	0	3	
				Ye	ear				
	1995	1996	1997	1998	1999	2000	2001	2002	
Number of SND Outstanding	2	4	4	5	6	6	6	6	
Number of SND with Generic Pricing	2	3	3	3	3	3	2	2	
Percentage of SND with Generic Pricing	100.00%	75.00%	75.00%	60.00%	50.00%	50.00%	33.33%	33.33%	
	•			3'					
Number of Bond-Weeks	104	178	208	237	303	312	312	284	
Number of Bond-Weeks with Generic Pricing	10	51	64	45	52	70	49	51	
Percentage of Bond-Weeks with Generic Pricing	9.62%	28.65%	30.77%	18.99%	17.16%	22.44%	15.71%	17.96%	
Number of Bond-Weeks with Various Frequencies									
5	7	42	52	21	35	42	36	30	
4	0	1	5	6	7	8	2	7	
3	2	2	3	8	5	4	4	4	
2	0	3	3	5	3	9	3	7	
1	1	3	1	5	2	7	4	3	

MELLON FINANCIAL CORP

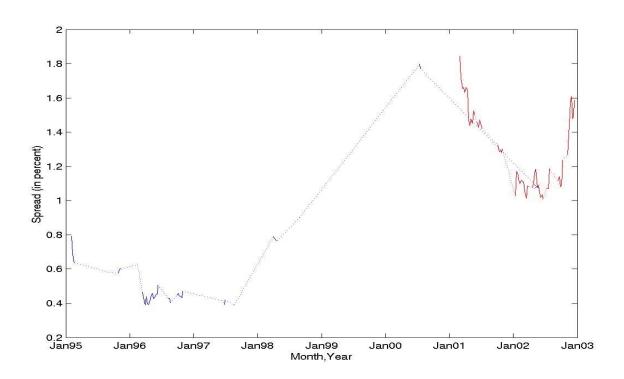
RSSD = 1068762TICKER = MEL



				Y	ear			
	1987	1988	1989	1990	1991	1992	1993	1994
Number of SND Outstanding	1	1	1	1	1	1	1	1
Number of SND with Generic Pricing	0	0	1	1	1	1	1	1
Percentage of SND with Generic Pricing	0.00%	0.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Number of Bond-Weeks	17	52	52	52	52	52	52	52
Number of Bond-Weeks with Generic Pricing	0	0	36	23	19	26	17	9
Percentage of Bond-Weeks with Generic Pricing	0.00%	0.00%	69.23%	44.23%	36.54%	50.00%	32.69%	17.31%
Number of Bond-Weeks with Various Frequencies								
5	0	0	33	16	1	2	0	0
4	0	0	2	2	0	1	0	0
3	0	0	0	1	0	1	0	0
2	0	0	1	1	4	7	2	0
1	0	0	0	3	14	15	15	9
				Y	ear			
	1995	1996	1997	1998	1999	2000	2001	2002
Number of SND Outstanding	1	1	1	1	1	0	0	0
Number of SND with Generic Pricing	0	0	0	0	0	0	0	0
Percentage of SND with Generic Pricing	0.00%	0.00%	0.00%	0.00%	0.00%	N/A	N/A	N/A
Number of Bond-Weeks	52	52	52	52	36	0	0	0
Number of Bond-Weeks with Generic Pricing	0	0	0	0	0	0	0	0
Percentage of Bond-Weeks with Generic Pricing	0.00%	0.00%	0.00%	0.00%	0.00%	N/A	N/A	N/A
Number of Bond-Weeks with Various Frequencies								
5	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0
1	0	0	0	0	0	0	0	0

REGIONS FINANCIAL CORP.

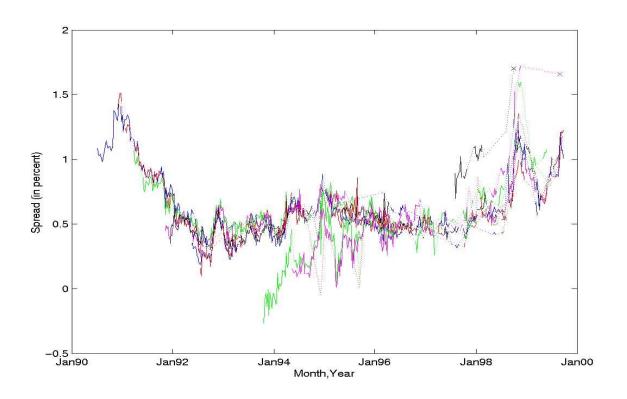
RSSD = 1078332 TICKER =RGBK



	Year									
	1987	1988	1989	1990	1991	1992	1993	1994		
Number of SND Outstanding	0	0	0	0	0	1	1	2		
Number of SND with Generic Pricing	0	0	0	0	0	0	0	0		
Percentage of SND with Generic Pricing	N/A	N/A	N/A	N/A	N/A	0.00%	0.00%	0.00%		
Number of Bond-Weeks	0	0	0	0	0	5	52	69		
Number of Bond-Weeks with Generic Pricing	0	0	0	0	0	0	0	0		
Percentage of Bond-Weeks with Generic Pricing	N/A	N/A	N/A	N/A	N/A	0.00%	0.00%	0.00%		
Number of Bond-Weeks with Various Frequencies										
5	N/A	N/A	N/A	N/A	N/A	0	0	0		
4	N/A	N/A	N/A	N/A	N/A	0	0	0		
3	N/A	N/A	N/A	N/A	N/A	0	0	0		
2	N/A	N/A	N/A	N/A	N/A	0	0	0		
1	N/A	N/A	N/A	N/A	N/A	0	0	0		
				V	ear					
	1995	1996	1997	1998	1999	2000	2001	2002		
Number of SND Outstanding	2	2	2	2	2	2	3	4		
Number of SND with Generic Pricing	1	1	1	1	0	1	1	2		
Percentage of SND with Generic Pricing	50.00%	50.00%	50.00%	50.00%	0.00%	50.00%	33.33%	50.00%		
Number of Bond-Weeks	104	104	104	104	104	104	148	187		
Number of Bond-Weeks with Generic Pricing	9	24	4	5	0	2	23	40		
Percentage of Bond-Weeks with Generic Pricing	8.65%	23.08%	3.85%	4.81%	0.00%	1.92%	15.54%	21.39%		
Number of Bond-Weeks with Various Frequencies										
5	3	13	0	3	0	0	19	27		
4	0	3	0	0	0	0	0	4		
3	3	3	1	0	0	1	3	3		
2	1	3	1	1	0	0	1	2		
1	2	2	2	1	0	1	0	4		

REPUBLIC NEW YORK CORP.

RSSD = 1021075 TICKER = RNB

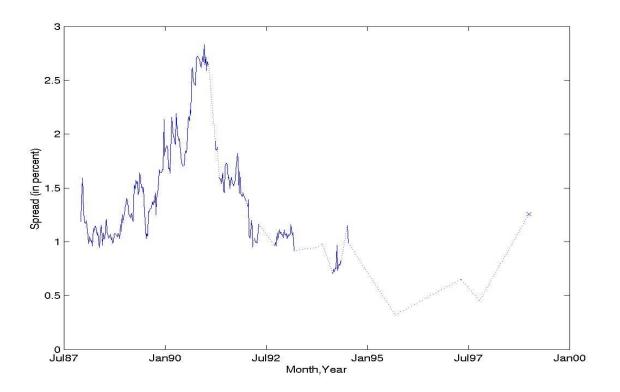


	Year								
	1987	1988	1989	1990	1991	1992	1993	1994	
Number of SND Outstanding	0	0	2	4	9	14	15	16	
Number of SND with Generic Pricing	0	0	0	2	5	7	8	9	
Percentage of SND with Generic Pricing	N/A	N/A	0.00%	50.00%	55.56%	50.00%	53.33%	56.25%	
Number of Bond-Weeks	0	0	86	136	333	562	740	815	
Number of Bond-Weeks with Generic Pricing	0	0	0	30	145	268	288	297	
Percentage of Bond-Weeks with Generic Pricing	N/A	N/A	0.00%	22.06%	43.54%	47.69%	38.92%	36.44%	
Number of Bond-Weeks with Various Frequencies									
5	N/A	N/A	N/A	22	95	200	214	218	
4	N/A	N/A	N/A	3	21	32	21	24	
3	N/A	N/A	N/A	2	18	19	22	15	
2	N/A	N/A	N/A	2	7	11	15	23	
1	N/A	N/A	N/A	1	4	6	16	17	
				Y	ear				
	1995	1996	1997	1998	1999	2000	2001	2002	
Number of SND Outstanding	16	17	18	18	18	N/A	N/A	N/A	
Number of SND with Generic Pricing	9	9	10	10	9	N/A	N/A	N/A	
Percentage of SND with Generic Pricing	56.25%	52.94%	55.56%	55.56%	50.00%	N/A	N/A	N/A	
Number of Bond-Weeks	832	874	908	936	936	N/A	N/A	N/A	
Number of Bond-Weeks with Generic Pricing	330	270	191	242	121	N/A	N/A	N/A	
Percentage of Bond-Weeks with Generic Pricing	39.66%	30.89%	21.04%	25.85%	12.93%	N/A	N/A	N/A	
	1/*								
Number of Bond-Weeks with Various Frequencies									
5	255	202	115	128	68	N/A	N/A	N/A	
4	28	27	20	35	15	N/A	N/A	N/A	
3	22	16	21	30	15	N/A	N/A	N/A	
2	11	11	18	31	8	N/A	N/A	N/A	
1	14	14	17	18	15	N/A	N/A	N/A	

^{***} Republic New York merged into HSBC USA INC. on 12/31/1999

SOUTHTRUST CORPORATION

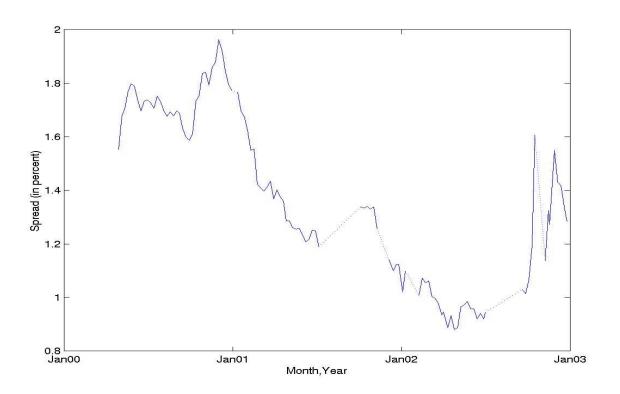
RSSD = 1079441TICKER = SOTR



				Ye	ear			
	1987	1988	1989	1990	1991	1992	1993	1994
Number of SND Outstanding	1	1	1	1	2	3	4	4
Number of SND with Generic Pricing	1	1	1	1	1	1	1	1
Percentage of SND with Generic Pricing	100.00%	100.00%	100.00%	100.00%	50.00%	33.33%	25.00%	25.00%
		•		•	•	•	•	
Number of Bond-Weeks	32	52	52	52	53	86	137	192
Number of Bond-Weeks with Generic Pricing	5	51	52	52	44	31	12	14
Percentage of Bond-Weeks with Generic Pricing	15.63%	98.08%	100.00%	100.00%	83.02%	36.05%	8.76%	7.29%
Number of Bond-Weeks with Various Frequencies								
5	3	40	44	49	28	18	8	11
4	2	11	6	3	6	8	0	0
3	0	0	1	0	6	1	2	0
2	0	0	1	0	1	3	0	2
1	0	0	0	0	3	1	2	1
				Ye	ear			
	1995	1996	1997	1998	1999	2000	2001	2002
Number of SND Outstanding	4	4	4	4	4	3	3	3
Number of SND with Generic Pricing	1	0	1	1	0	0	0	0
Percentage of SND with Generic Pricing	25.00%	0.00%	25.00%	25.00%	0.00%	0.00%	0.00%	0.00%
Number of Bond-Weeks	208	208	208	208	179	156	156	156
Number of Bond-Weeks with Generic Pricing	1	0	3	1	0	0	0	0
Percentage of Bond-Weeks with Generic Pricing	0.48%	0.00%	1.44%	0.48%	0.00%	0.00%	0.00%	0.00%
Number of Bond-Weeks with Various Frequencies								
5	0	N/A	1	0	N/A	N/A	N/A	N/A
4	0	N/A	1	0	N/A	N/A	N/A	N/A
3	0	N/A	0	0	N/A	N/A	N/A	N/A
2	0	N/A	0	0	N/A	N/A	N/A	N/A
1	1	N/A	1	1	N/A	N/A	N/A	N/A

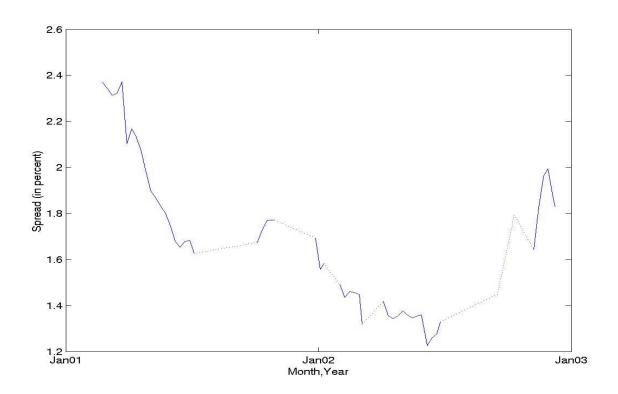
SUNTRUST BANKS INC.

RSSD = 1131787 TICKER = STI



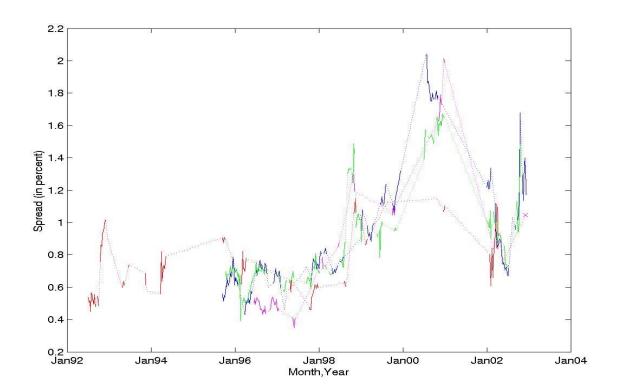
	Year									
	1987	1988	1989	1990	1991	1992	1993	1994		
Number of SND Outstanding	0	0	0	0	0	0	0	1		
Number of SND with Generic Pricing	0	0	0	0	0	0	0	0		
Percentage of SND with Generic Pricing	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00%		
Number of Bond-Weeks	0	0	0	0	0	0	0	48		
Number of Bond-Weeks with Generic Pricing	0	0	0	0	0	0	0	0		
Percentage of Bond-Weeks with Generic Pricing	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00%		
Number of Bond-Weeks with Various Frequencies										
5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0		
4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0		
3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0		
2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0		
1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0		
				Y	ear					
	1995	1996	1997	1998	1999	2000	2001	2002		
Number of SND Outstanding	1	3	4	4	4	5	5	5		
Number of SND with Generic Pricing	0	0	0	0	0	1	1	1		
Percentage of SND with Generic Pricing	0.00%	0.00%	0.00%	0.00%	0.00%	20.00%	20.00%	20.00%		
Number of Bond-Weeks	52	125	189	208	208	244	260	260		
Number of Bond-Weeks with Generic Pricing	0	0	0	0	0	36	36	37		
Percentage of Bond-Weeks with Generic Pricing	0.00%	0.00%	0.00%	0.00%	0.00%	14.75%	13.85%	14.23%		
Number of Bond-Weeks with Various Frequencies										
5	0	0	0	0	0	35	33	25		
4	0	0	0	0	0	0	0	4		
3	0	0	0	0	0	1	1	2		
2	0	0	0	0	0	0	0	3		
1	0	0	0	0	0	0	2	3		

UNION PLANTERS RSSD = 1094369 TICKER = UPC



Year																	
	1987	1988	1989	1990	1991	1992	1993	1994									
Number of SND Outstanding	0	0	0	0	0	0	1	1									
Number of SND with Generic Pricing	0	0	0	0	0	0	0	0									
Percentage of SND with Generic Pricing	N/A	N/A	N/A	N/A	N/A	N/A	0.00%	0.00%									
	•	•					•										
Number of Bond-Weeks	0	0	0	0	0	0	10	52									
Number of Bond-Weeks with Generic Pricing	0	0	0	0	0	0	0	0									
Percentage of Bond-Weeks with Generic Pricing	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A									
Number of Bond-Weeks with Various Frequencies																	
5	N/A	N/A	N/A	N/A	N/A	N/A	0	0									
4	N/A	N/A	N/A	N/A	N/A	N/A	0	0									
3	N/A	N/A	N/A	N/A	N/A	N/A	0	0									
2	N/A	N/A	N/A	N/A	N/A	N/A	0	0									
1	N/A	N/A	N/A	N/A	N/A	N/A	0	0									
<u> </u>								Year									
-	1005	1006	1005			2000	2001										
	1995	1996	1997	1998	1999	2000	2001	2002									
Number of SND Outstanding	2	2	2	1998 2	1999	2	2001	2002									
Number of SND with Generic Pricing	2	2	2	1998 2 0	1999 2 0	2	3	3									
	2	2	2	1998 2	1999	2											
Number of SND with Generic Pricing Percentage of SND with Generic Pricing	2 0 0.00%	2 0 0.00%	2 0 0.00%	1998 2 0 0.00%	1999 2 0 0.00%	2 0 0.00%	3 1 33.33%	3 1 33.33%									
Number of SND with Generic Pricing Percentage of SND with Generic Pricing Number of Bond-Weeks	2 0 0.00%	2 0 0.00%	2 0 0.00%	1998 2 0 0.00%	1999 2 0 0.00%	2 0 0.00%	3 1 33.33%	3 1 33.33%									
Number of SND with Generic Pricing Percentage of SND with Generic Pricing Number of Bond-Weeks Number of Bond-Weeks with Generic Pricing	2 0 0.00%	2 0 0.00%	2 0 0.00%	1998 2 0 0.00% 104 0	1999 2 0 0.00% 104 0	2 0 0.00%	3 1 33.33% 149 26	3 1 33.33%									
Number of SND with Generic Pricing Percentage of SND with Generic Pricing Number of Bond-Weeks	2 0 0.00%	2 0 0.00%	2 0 0.00%	1998 2 0 0.00%	1999 2 0 0.00%	2 0 0.00%	3 1 33.33%	3 1 33.33%									
Number of SND with Generic Pricing Percentage of SND with Generic Pricing Number of Bond-Weeks Number of Bond-Weeks with Generic Pricing	2 0 0.00%	2 0 0.00%	2 0 0.00%	1998 2 0 0.00% 104 0	1999 2 0 0.00% 104 0	2 0 0.00%	3 1 33.33% 149 26 17.45%	3 1 33.33%									
Number of SND with Generic Pricing Percentage of SND with Generic Pricing Number of Bond-Weeks Number of Bond-Weeks with Generic Pricing Percentage of Bond-Weeks with Generic Pricing	2 0 0.00%	2 0 0.00%	2 0 0.00%	1998 2 0 0.00% 104 0	1999 2 0 0.00% 104 0	2 0 0.00%	3 1 33.33% 149 26	3 1 33.33%									
Number of SND with Generic Pricing Percentage of SND with Generic Pricing Number of Bond-Weeks Number of Bond-Weeks with Generic Pricing Percentage of Bond-Weeks with Generic Pricing Number of Bond-Weeks with Various Frequencies	2 0 0.00% 61 0 0.00%	2 0 0.00% 104 0 0.00%	2 0 0.00% 104 0 0.00%	1998 2 0 0.00% 104 0 0.00%	1999 2 0 0.00% 104 0 0.00%	2 0 0.00% 104 0 0.00%	3 1 33.33% 149 26 17.45%	3 1 33.33% 156 29 18.59%									
Number of SND with Generic Pricing Percentage of SND with Generic Pricing Number of Bond-Weeks Number of Bond-Weeks with Generic Pricing Percentage of Bond-Weeks with Generic Pricing Number of Bond-Weeks with Various Frequencies 5	2 0 0.00% 61 0 0.00%	2 0 0.00% 104 0 0.00%	2 0 0.00% 104 0 0.00%	1998 2 0 0.00% 104 0 0.00%	1999 2 0 0.00% 104 0 0.00%	2 0 0.00% 104 0 0.00%	3 1 33.33% 149 26 17.45%	3 1 33.33% 156 29 18.59%									
Number of SND with Generic Pricing Percentage of SND with Generic Pricing Number of Bond-Weeks Number of Bond-Weeks with Generic Pricing Percentage of Bond-Weeks with Generic Pricing Number of Bond-Weeks with Various Frequencies 5 4	2 0 0.00% 61 0 0.00%	2 0 0.00% 104 0 0.00%	2 0 0.00% 104 0 0.00%	1998 2 0 0.00% 104 0 0.00% 0	1999 2 0 0.00% 104 0 0.00%	2 0 0.00% 104 0 0.00%	3 1 33.33% 149 26 17.45%	3 1 33.33% 156 29 18.59%									

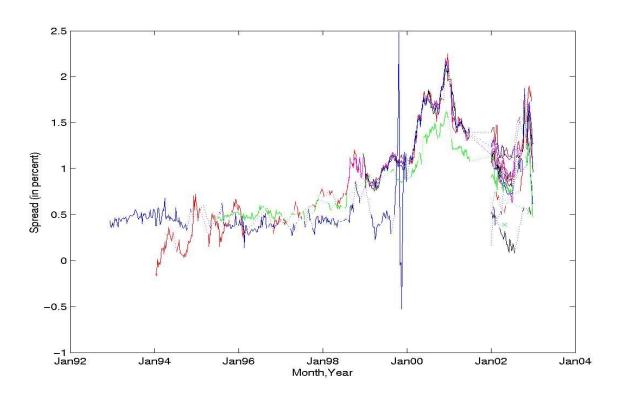
$U.S.\ BANCORP$ $RSSD = 1119794\ (previously\ 2724645\ through\ 2001,\ 1070251\ through\ 1998Q3)$ TICKER = USB



	Year								
	1987	1988	1989	1990	1991	1992	1993	1994	
Number of SND Outstanding	0	0	0	0	0	0	2	2	
Number of SND with Generic Pricing	0	0	0	0	0	0	1	1	
Percentage of SND with Generic Pricing	N/A	N/A	N/A	N/A	N/A	N/A	50.00%	50.00%	
Number of Bond-Weeks	0	0	0	0	0	0	78	104	
Number of Bond-Weeks with Generic Pricing	0	0	0	0	0	0	9	8	
Percentage of Bond-Weeks with Generic Pricing	N/A	N/A	N/A	N/A	N/A	N/A	11.54%	7.69%	
Number of Bond-Weeks with Various Frequencies									
5	N/A	N/A	N/A	N/A	N/A	N/A	2	6	
4	N/A	N/A	N/A	N/A	N/A	N/A	2	0	
3	N/A	N/A	N/A	N/A	N/A	N/A	2	0	
2	N/A	N/A	N/A	N/A	N/A	N/A	0	1	
1	N/A	N/A	N/A	N/A	N/A	N/A	3	1	
				V	ear				
	1995	1996	1997	1998	1999	2000	2001	2002	
Number of SND Outstanding	1993	6	6	6	6	6	6	6	
Number of SND with Generic Pricing	3	4	4	4	4	4	0	4	
Percentage of SND with Generic Pricing	60.00%	66.67%	66.67%	66.67%	66.67%	66.67%	0.00%	66.67%	
recentage of SND with Generic Frieng	00.0070	00.0770	00.0770	00.0770	00.0770	00.0770	0.0076	00.0770	
Number of Bond-Weeks	170	289	312	312	312	312	312	312	
Number of Bond-Weeks with Generic Pricing	33	107	80	78	56	48	0	84	
Percentage of Bond-Weeks with Generic Pricing	19.41%	37.02%	25.64%	25.00%	17.95%	15.38%	0.00%	26.92%	
Number of Bond-Weeks with Various Frequencies									
5	26	75	57	43	23	34	N/A	39	
4	2	11	7	12	7	5	N/A	14	
3	1	8	6	10	9	0	N/A	7	
2	2	5	2	7	12	4	N/A	9	
1	2	0	0	-	- 5	- 5	NT/A	1.5	

^{**} Acquired Firstar on 12/31/1998

$WACHOVIA \\ RSSD = 1136157 \ (1073551 \ prior \ to \ 12/31/2001) \\ TICKER = WB$



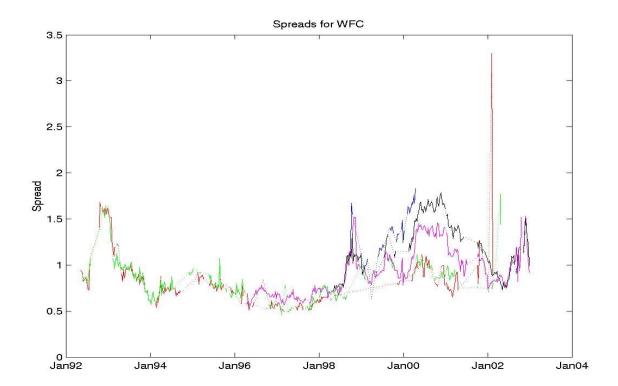
	Year							
	1987	1988	1989	1990	1991	1992	1993	1994
Number of SND Outstanding	0	0	0	0	0	1	2	3
Number of SND with Generic Pricing	0	0	0	0	0	1	1	2
Percentage of SND with Generic Pricing	N/A	N/A	N/A	N/A	N/A	100.00%	50.00%	66.67%
Number of Bond-Weeks	0	0	0	0	0	5	90	155
Number of Bond-Weeks with Generic Pricing	0	0	0	0	0	4	52	93
Percentage of Bond-Weeks with Generic Pricing	N/A	N/A	N/A	N/A	N/A	80.00%	57.78%	60.00%
Number of Bond-Weeks with Various Frequencies								
5	N/A	N/A	N/A	N/A	N/A	3	45	74
4	N/A	N/A	N/A	N/A	N/A	1	5	5
3	N/A	N/A	N/A	N/A	N/A	0	2	8
2	N/A	N/A	N/A	N/A	N/A	0	0	4
1	N/A	N/A	N/A	N/A	N/A	0	0	2
	<u> </u>			Y	ear			
	1995	1996	1997	1998	1999	2000	2001	2002
Number of SND Outstanding	5	5	5	7	8	7	7	25
Number of SND with Generic Pricing	3	3	3	5	6	5	5	15
Percentage of SND with Generic Pricing	60.00%	60.00%	60.00%	71.43%	75.00%	71.43%	71.43%	60.00%
		-		-		-	-	
Number of Bond-Weeks	200	260	260	284	406	364	364	1268
Number of Bond-Weeks with Generic Pricing	95	120	74	117	243	240	68	481
Percentage of Bond-Weeks with Generic Pricing	47.50%	46.15%	28.46%	41.20%	59.85%	65.93%	18.68%	37.93%
Number of Bond-Weeks with Various Frequencies								
5	76	91	43	81	184	212	120	354
4	6	15	4	10	27	14	1	40
3	6	6	11	14	19	4	0	18
2	6	6	6	6	13	4	0	23

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^{***} Aquired First Union on 9/1/2001

WELLS FARGO & CO.

RSSD = 1120754 (1027095 prior to 10/01/1998) TICKER = WFC



	Year								
	1987	1988	1989	1990	1991	1992	1993	1994	
Number of SND Outstanding	0	0	0	0	0	2	4	4	
Number of SND with Generic Pricing	0	0	0	0	0	2	2	2	
Percentage of SND with Generic Pricing	N/A	N/A	N/A	N/A	N/A	100.00%	50.00%	50.00%	
Number of Bond-Weeks	0	0	0	0	0	68	151	208	
Number of Bond-Weeks with Generic Pricing	0	0	0	0	0	43	94	59	
Percentage of Bond-Weeks with Generic Pricing	N/A	N/A	N/A	N/A	N/A	63.24%	62.25%	28.37%	
Number of Bond-Weeks with Various Frequencies									
5	N/A	N/A	N/A	N/A	N/A	26	78	47	
4	N/A	N/A	N/A	N/A	N/A	6	3	7	
3	N/A	N/A	N/A	N/A	N/A	4	6	2	
2	N/A	N/A	N/A	N/A	N/A	3	4	2	
1	N/A	N/A	N/A	N/A	N/A	4	3	1	
				V				_	
	1995	1996	1997	1998	ear 1999	2000	2001	2002	
Number of SND Outstanding	4	6	6	7	7	7	8	11	
Number of SND with Generic Pricing	2	3	3	5	5	5	4	4	
Percentage of SND with Generic Pricing	50.00%	50.00%	50.00%	71.43%	71.43%	71.43%	50.00%	36.36%	
retenting of 5112 with deficite friends	20.0070	20.0070	20.0070	711.1570	71.1070	71.1570	20.0070	30.3070	
Number of Bond-Weeks	208	269	312	349	364	364	387	394	
Number of Bond-Weeks with Generic Pricing	66	86	111	145	118	181	106	107	
Percentage of Bond-Weeks with Generic Pricing	31.73%	31.97%	35.58%	41.55%	32.42%	49.73%	27.39%	27.16%	
Number of Bond-Weeks with Various Frequencies								_	
5	47	63	89	111	84	144	94	84	
4	5	9	7	14	11	14	2	5	
3	4	4	5	7	8	10	4	2	
2	7	4	3	6	9	5	2	7	
1	3	6	7	7	6	8	4	9	