# FRBSF UEGKLY LETTGR 

July 27,1990

## Interest Rate Competition

Since late 1982, commercial banks and thrifts have offered the money market deposit account (MMDA), a savings account with features similar to and competitive with those of money market mutual funds. Until 1987, banks and thrifts offered rates on MMDAs that were closely tied to the rates on money market funds. Since then, however, MMDA rates have become less sensitive to money fund rates. In this Letter, we study this change in MMDA pricing, and find that changes in the structure of banking markets caused by changes in the intensity of thrift competition may be partly responsible.

## The MMDA market is born

Money market deposit accounts were authorized for banks and thrifts in December 1982 as a combination savings/limited transaction account that would make them competitive with money market mutual funds. Today, banks and thrifts in the U.S. hold nearly \$490 billion in MMDAs, versus about $\$ 430$ billion in money funds.

Money market funds pay a rate that is determined by the yields on the money market assets (such as Treasury securities, commercial paper, and large bank CDs) they hold. In contrast, depository institutions establish their own rates on MMDAs. Through the mid-1980s, the rates on money market funds and MMDAs were tightly linked, with MMDA rates only slightly below those on money funds (see chart). Data from the Bank Rate Monitor indicate that bank and thrift MMDA rates averaged 94 percent of the national average money market fund rate from 1984 to 1986. Moreover, changes in these two rates were highly correlated, with MMDA rates moving an average of 60 basis points for every 100 basis point change in money fund rates.

At the same time, MMDA rates tended to be less sensitive to rises than to declines in the rate on money market funds. This tendency for the MMDA rate to respond less strongly to changes
in the money fund rate in a rising rate environment is confirmed by research at the Federal Reserve Bank of San Francisco. When interest rates have risen, banks and thrifts have been able to limit the rise in their MMDA rates without too much risk of losing deposits. Instead, they have tended to raise interest rates on certificates of deposit (CDs). Changes in CD rates affect only new accounts, and are therefore less costly than are changes in the MMDA rate, which would apply to both new and old accounts.

Interest Rates on
Money Market Funds and MMDAs Percent


## Looser link

According to the chart, the close relationship between money market fund and MMDA rates appears to have broken down after 1986. The average differential between rates paid on money market funds and MMDAs has widened significantly. Whereas MMDA rates in the 1984-86 period were five to ten percent below the money fund rate, after 1986 they have been more than 20 percent below the money fund rate on average. The average difference between MMDA rates and the money market fund rate climbed from under 100 basis points from 1984 to 1986 to over 200 basis points after 1986.
$\bar{W} \in S T \in R \cap$ BAnKing Western Banking is a quarterly review of banking developments in the Twelfth Federal Reserve District. It is published in the Weekly Letter on the fourth Friday of January, April, July, and October.

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In the current period, changes in MMDA rates also respond less to changes in money fund rates. For every 100 basis point change in the average money market fund rate since early 1987, MMDA rates have moved on average only 20 basis points. This is one-third of the response of MMDA rates in the prior period.

## Interest sensitivity of MMDAs

The apparent uncoupling of MMDA and money market fund rates may have occurred for a number of reasons. First, it may be a response to the rise in the money fund rate that occurred during most of the later period. As noted above, MMDA rates have tended to be less responsive to money fund rates when rates have been rising than when they have been falling. Thus, it should not be a surprise that money fund and MMDA rates would appear to have become uncoupled as interest rates rose after 1986.

However, a rising money fund rate cannot fully explain the apparent uncoupling of rates in the current period. The spread between the two rates is too large to be consistent with the earlier period. Moreover, as money fund rates have fallen over the past year, MMDA rates have not been as responsive to this decline as they were previously. Money fund rates have fallen about 160 basis points since early 1989, but MMDA rates have fallen only 40 basis points or so; this is roughly the same average response that we observe during the post-1986 period as a whole.

## The thrift crisis

Thus, a structural shift in the market for MMDAs appears to have occurred around 1987. This shift has altered the relationship between rates on MMDAs and those on money funds. It is difficult to identify a unique cause for this. Nevertheless, the uncoupling of MMDA rates from money fund rates coincides with the deterioration in the financial condition of FSLIC-insured thrift institutions. Such a deterioration in financial condition may have limited thrift competition in the MMDA market, and diminished banks' incentives to compete aggressively as well.

As early as the second half of 1985 , the S\&L industry began reporting net outflows of new retail savings deposits. Earnings deteriorated dramatically thereafter, with the industry as a whole
reporting virtually zero earnings in 1986 and progressively larger multi-billion dollar losses in subsequent years. The industry's return on assets (ROA) followed a similar pattern of deterioration.

Another sign of the deteriorating health of the industry has been the declining number of insured thrifts. A small drop in 1986 was followed by much larger declines in subsequent years. With the funding to close insolvent thrifts that was provided by the passage of the Financial Institutions Reform, Recovery and Enforcement Act (FIRREA) in August 1989, the number of thrift institutions has declined even further.

As the financial prospects and performance of thrifts have deteriorated, the industry has attempted to minimize its cost of funds, bolster earnings, and raise capital. As a result of these efforts, the ability of thrifts to compete in the MMDA market may have declined. FIRREA also has limited the ability of ailing thrifts to offer above-market deposit rates.

Consequently, the premium thrifts have been paying over bank MMDA rates has declined in recent years. The behavior of MMDA rates at a group of large California S\&Ls is especially striking. As shown in the chart, these S\&Ls have paid an almost constant rate on MMDAs since 1986, despite strong movements in money fund rates. In contrast, MMDA rates at large California banks are now higher than rates at large California S\&Ls for the first time in years.

## Impact on depositors

Competition for depositors' funds can take many forms. In California, for example, banks have escalated efforts to provide "better" banking services, such as 24 -hour telephone service, longer branch hours, and Saturday banking. Nevertheless, developments in the thrift industry appear to have diminished competition in the market for MMDAs and contributed to an uncoupling of MMDA and money market fund rates. Thus, it is not surprising that MMDA balances have fallen $\$ 24$ billion nationwide since 1987 while higher yielding money market funds have gained $\$ 116$ billion.

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## REGIONAL BANK DATA

MARCH 31, 1990
(Not Seasonally Adjusted, Preliminary Data)


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## MARKET SHARE STATISTICS

depository institutions required to hold reserves with the federal reserve on a heekly basis
percent of combined market total for may 1990, by region

|  | distaict | ALASKA | arizona | calif | havail | ірано | nevada | OREGON | UTAG | UASH |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| deposit type | Cas SL Cu | CB SL Cu | C8 SL Cu | CB SL cu | CB SL cu | cs st cu | CB SL Cu | CB SL CU | CB SL CU | CB SL Cu |
| TOTAL DEPOSITS | 48475 | 73422 | 56395 | 44524 | 66295 | 87103 | 69293 | 68266 | 682111 | 57368 |
| demand | 9244 | $99 \quad 0 \quad 1$ | 9145 | 9244 | 9344 | 9218 | 9910 | 9514 | $92 \quad 45$ | 9353 |
| NOW | 61317 | $\begin{array}{ll}58 & 536\end{array}$ | 70229 | 57376 | 71263 | 8883 | 78166 | 77167 | 751411 | 652312 |
| Savings | 483418 | 34363 | 452629 | 483814 | 47.3518 | 761212 | 702010 | 542719 | 531235 | 452135 |
| mHDA | 65322 | 8983 | 7221 | 61372 | 82180 | 9460 | 81182 | 81164 | 81910 | 70282 |
| SMALL TIME | 29683 | $\begin{array}{llll}76 & 816\end{array}$ | 43543 | 22753 | 40564 | 83152 | 43542 | 53435 | 56368 | 44515 |
| LARGE TIME | 41572 | $95 \quad 23$ | 45522 | 37612 | $7918 \quad 2$ | 84115 | 70300 | 80164 | 78166 | 47521 |

INTEREST RATES ON DEPOSITS AND LOANS AS OF MAY 1990 (\%)

| TYPE Of ACCOUNT OR LOAN |  | date | us | DISTRICT | ARI2 | CALIF | hamall | IDAHO | OREGON | UTAH | WASH |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| money market deposit accounts |  | MAR90 | 6.32 | 6.26 | 5.86 | 6.49 | 5.69 | 6.07 | 6.38 | 6.45 | 6.34 |
|  |  | APR90 | 6.33 | 6.21 | 5.87 | 6.46 | 5.68 | 6.06 | 6.44 | 6.10 | 6.29 |
|  |  | HaY90 | 6.34 | 6.23 | 5.87 | 6.46 | 5.68 | 6.06 | 6.53 | 6.10 | 6.36 |
| 92 to 182 days CERTIfICATES |  | marso | 7.77 | 7.45 | 7.41 | 7.76 | 6.89 | 7.45 | 7.77 | 7.61 | 7.15 |
|  |  | APR90 | 7.81 | 7.45 | 7.40 | 7.81 | 6.89 | 7.50 | 7.77 | 7.65 | 7.08 |
|  |  | may90 | 7.83 | 7.48 | 7.38 | 7.82 | 6.95 | 7.57 | 7.53 | 7.66 | 7.16 |
| $2 \frac{1}{2}$ years and over certificates |  | mar90 | 7.94 | 7.86 | 7.64 | 7.98 | 7.57 | 7.98 | 8.56 | 7.98 | 7.72 |
|  |  | Aprso | 8.01 | 7.87 | 7.64 | 8.04 | 7.57 | 8.00 | 8.34 | 8.05 | 7.72 |
|  |  | HAYSO | 8.03 | 7.89 | 7.59 | 7.99 | 8.00 | 8.00 | 7.98 | 8.05 | 7.71 |
| COMHERCIAL, SHORT-TERM* | ave. rate |  | 9.97 | 10.49 | 10.19 | 10.61 | 10.85 | 10.05 | 10.58 | 11.11 | 10.14 |
|  | ave. mat. | (DAYS) | 46 | 125 | 69 | 156 | 100 | 119 | 85 | 115 | 158 |
| COMMERCIAL, LONG-TERM* | ave. Rate |  | 11.08 | 11.20 | 10.89 | 11.16 | 11.87 | 11.47 | N/A | 11.93 | 10.06 |
|  | ave. Mat. | (\%ONTHS) | 44 | 36 | 39 | 35 | 32 | 56 | N/A | 26 | 40 |
| loans to farmers* | AVE. Rate |  | 11.79 | 10.58 | 10.50 | 10.28 | N/A | 11.67 | 10.68 | 12.35 | 11.15 |
|  | AVE. MAT. | (MONTHS) | 14 | 11 | 5 | 12 | N/A | 16 | 3 | 47 | 24 |
| COHSUMER, AUTOMOBILE CONSUMER, PERSONAL CONSUMER, CREDIT CARDS | ave. rate |  | 11.82 | 12.55 | 13.25 | 13.08 | N/A | 13.50 | 11.30 | 11.84 | 12.05 |
|  | ave. rate |  | 15.41 | 16.22 | 17.00 | 19.79 | N/A | 14.00 | 13.27 | 16.14 | 15.07 |
|  | ave. Rate |  | 18.14 | 18.47 | 18.00 | 19.44 | N/A | N/A | 19.24 | 20.40 | 16.00 |

sources: survey of terms of bank lending and terhs of consumer credit; most common interest rates on selected accounts.
*U.S. DATA ARE COMPOUNDED ANHUAL RATES, DISTRICT ANO STATE DATA ARE SIMPLE ANNUAL RATES.


[^0]:    Opinions expressed in this newsletter do not necessarily reflect the views of the management of the Federal Reserve Bank of San Francisco, or of the Board of Governors of the Federal Reserve System.
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