## POOLED MONEY INVESTMENT BOARD

## 60th Annual Report | Fiscal Year 2015-16



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## Preface

## POOLED MONEY INVESTMENT BOARD

The Pooled Money Investment Board (PMIB), created by the Legislature in 1955, is comprised of the State Treasurer, as chairman, the State Controller and the Director of Finance. At the end of Fiscal Year 2015-16, the members were State Treasurer John Chiang, State Controller Betty T. Yee, and Director of Finance Michael Cohen.

The purpose of the PMIB is to design and administer an effective cash management and investment program, called the Pooled Money Investment Account (PMIA). The PMIA uses all monies flowing through the State Treasurer's bank accounts and keeps all available funds invested consistent with the goals of safety, liquidity and yield.

The law restricts the State Treasurer to investments in the following categories: U.S. government securities; securities of federally-sponsored agencies; California state securities; California municipal bonds or warrants; domestic corpo-
rate bonds; interest-bearing time deposits in California banks, savings and loan associations, and credit unions; prime-rated commercial paper; repurchase and reverse repurchase agreements; security loans; banker's acceptances; negotiable certificates of deposit; negotiable order of withdrawal accounts; and loans to various bond funds. The investment and demand account programs, over which the PMIB has oversight, and which are administered by the State Treasurer, will be covered in this report.

During Fiscal Year 2015-16, the PMIA's earnings totaled more than $\$ 283$ million. Approximately $\$ 91$ million of this amount was credited to local governments as a result of their deposits in the investment pool. The level of local governments' combined voluntary investments, which averaged $\$ 20.81$ billion daily, reflects the confidence these agencies have in the State Treasurer's investment management capabilities. The magnitude of these investment earnings provides a significant reduction in the tax burden that otherwise would be imposed on the citizens of California.


## 1. Pooled Money Investment Account

Resources of the PMIA averaged $\$ 67.513$ billion per day during Fiscal Year 2015-16, although the daily figures fluctuated widely with receipts and disbursements.

On the closing day of the fiscal year, the following resources were on hand in the PMIA:

| Securities | $\$ 69,317,151,612$ |
| :--- | ---: |
| General Fund Loans | $\$ 0$ |
| AB 55 Loans | $\$ 502,313,000$ |
| Time Deposit Balances | $\$ 5,549,440,000$ |
| Demand Deposit Balances | $\$ 2,281,112,435$ |
| TOTAL RESOURCES | $\$ 77,650,017,047$ |

SOURCE OF FUNDS, PMIA
QUARTER ENDING 6/30/16
AVERAGE QUARTERLY BALANCE: \$68.431 billion

## SUMMARY STATISTICS

| Demand <br> Accounts | \$2.145 | billion per day on the average |
| :---: | :---: | :---: |
| Portfolio | \$65.368 | billion per day on the average |
| Resources | \$67.513 | billion per day on the average |
| Earnings | $\begin{array}{r} \$ 267.315 \\ \$ 11.746 \\ \$ 4.315 \end{array}$ | million from security investments million from bank time deposits million from General Fund loans |
| Earnings Rate | 0.43 | percent average for all investments |
| Dollar Value of Investment Transactions | \$303.6 | billion |
| Number of Investment Transactions | 6,936 | transactions |
| Time Deposits | 77 | banks, credit unions and savings and loan associations held PMIA money at year-end |



## INVESTMENT PROGRAM

While the PMIB designates how much shall be invested in interest-bearing time deposit accounts and securities, it is the responsibility of the State Treasurer to administer the investment program on a day-to-day basis in line with overall PMIB policy. This entails a daily determination of amounts available for investment, or the need for liquidating securities to meet estimated warrant redemption requirements, while maintaining the approved compensating balance position. This means that the State Treasurer must continually adjust the estimates for receipts and disbursements to reflect current available information.

For Fiscal Year 2015-16, daily investments in time deposits ranged from $\$ 5.437$ billion to $\$ 5.898$ billion and averaged $\$ 5.622$ billion daily. There were 1,599 time deposit transactions totaling $\$ 37.539$ billion during the year. California commercial banks, savings and loan associations and credit unions receiving these state deposits must secure them with approved securities having a market value of at least 110 percent of the deposits or with approved promissory notes secured by mortgages or deeds of trust having a market value of at least 150 percent of the deposits. The same collateral requirements also apply to the state's demand accounts. At the end of Fiscal Year 2015-16, interest-bearing time deposits were held by 65 commercial banks, ten credit unions and two savings bank throughout California. For the fiscal year, PMIA holdings in time deposits had an average yield of 0.21 percent.

The amount of money designated by the PMIB for investment in securities varies dramatically throughout the year. Such designations are made at least monthly. Again, the State Treasurer handles the actual investments, determining the issue and maturity of authorized securities to be bought or sold in accordance with cash needs and both current and projected market conditions. During Fiscal Year 2015-16, there were 2,727 security purchase transactions and 2,610 security sales or redemption transactions, with a total investment activity of $\$ 266.088$ billion. The overall return on investments was 0.43 percent.

Total earnings for the PMIA in Fiscal Year 2015-16 were $\$ 283.377$ million. These earnings were credited as follows:

| Surplus Money Investment Fund | $\$ 149,681,844$ |
| :--- | :---: |
| Local Agency Investment Fund | $\$ 90,709,430$ |
| General Fund | $\$ 40,771,076$ |
| Public Employees' Retirement Fund | $\$ 1,764,109$ |
| Teachers' Retirement Fund | $\$ 231,211$ |
| Fish and Game Preservation Fund | $\$ 218,866$ |
| TOTAL EARNINGS | $\$ 283,376,536$ |

TIME DEPOSITS BY MONTH-END, FISCAL YEAR 2015-16 (\$ in millions)


## ANALYSIS OF THE PORTFOLIO, FISCAL YEAR 2015-16

| Type of Security | Average Daily Portfolio | Percent of Portfolio (\%) | Earnings For Year | Average Portfolio Life on 6/30/16 (in Days) |
| :---: | :---: | :---: | :---: | :---: |
| U.S. Treasury Bills/Strips | \$11,455,063,310 | 17.52 | \$36,662,384 | 152 |
| U.S. Treasury Bonds/Notes | \$21,359,942,162 | 32.68 | \$119,896,356 | 306 |
| Agency Coupon Securities | \$2,193,965,731 | 3.36 | \$12,597,261 | 194 |
| Agency Discount Notes | \$6,673,889,785 | 10.21 | \$19,824,521 | 152 |
| REMICS | \$74,536,139 | 0.11 | \$4,252,157 | 4,381 |
| Negotiable CDs | \$11,697,235,925 | 17.89 | \$51,463,488 | 72 |
| Bank Notes | \$441,530,055 | 0.68 | \$1,934,334 | 130 |
| Time Deposits | \$5,622,068,142 | 8.60 | \$11,746,000 | 57 |
| Commercial Paper | \$4,443,660,135 | 6.80 | \$19,048,040 | 55 |
| Corporate Bonds | \$0 | 0.00 | \$0 | 0 |
| Repurchase Agreements | \$683,060 | 0.00 | \$917 | 0 |
| Reverse Repurchase Agreements | \$0 | 0.00 | \$0 | 0 |
| AB 55 Loans | \$434,166,345 | 0.66 | \$1,635,955 | 247 |
| General Fund Loans | \$971,007,650 | 1.49 | \$4,315,123 | 0 |
| TOTAL PORTFOLIO | \$65,367,748,439 | 100.00\% | \$283,376,536 | 167 |

## SUMMARY OF INVESTMENTS AND EARNINGS FOR FISCAL YEARS ENDING JUNE 30, 2007 THROUGH 2016 (\$ in thousands)

| INVESTMENT IN SECURITIES |  |  |  | INVESTMENT IN TIME DEPOSITS |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Fiscal Year | Average Daily Investment | Earnings | Earnings Rate (\%) | Fiscal Year | Average Daily Investment | Earnings | Earnings Rate (\%) |
| 2006-07 | \$49,143,376 | \$2,512,140 | 5.11 | 2006-07 | \$8,349,640 | \$431,452 | 5.17 |
| 2007.08 | \$53,475,554 | \$2,376,670 | 4.44 | 2007-08 | \$9,120,990 | \$329,215 | 3.61 |
| 2008-09 | \$45,780,185 | \$1,109,867 | 2.42 | 2008-09 | \$7,869,934 | \$91,806 | 1.17 |
| 2009-10 | \$50,860,515 | \$349,144 | 0.69 | 2009-10 | \$4,647,944 | \$9,429 | 0.20 |
| 2010-11 | \$56,768,448 | \$294,039 | 0.52 | 2010-11 | \$4,008,345 | \$7,713 | 0.19 |
| 2011-12 | \$50,379,295 | \$204,808 | 0.41 | 2011.12 | \$4,173,405 | \$4,207 | 0.10 |
| 2012-13 | \$50,680,825 | \$160,581 | 0.32 | 2012-13 | \$4,344,156 | \$6,484 | 0.15 |
| 2013-14 | \$48,555,052 | \$127,410 | 0.26 | 2013-14 | \$4,517,204 | \$4,550 | 0.10 |
| 2014-15 | \$51,833,180 | \$148,978 | 0.29 | 2014-15 | \$5,089,667 | \$4,307 | 0.08 |
| 2015-16 | \$58,774,672 | \$267,315 | 0.45 | 2015-16 | \$5,622,068 | \$11,746 | 0.21 |
| LOANS TO GENERAL FUND |  |  |  | TOTAL INVESTMENTS |  |  |  |
| Fiscal Year | Average Daily Investment | Earnings | Earnings Rate (\%) | Fiscal Year | Average Daily Investment | Earnings | Earnings Rate (\%) |
| 2006-07 | \$654,425 | \$34,033 | 5.20 | 2006-07 | \$58,147,441 | \$2,977,625 | 5.12 |
| 2007.08 | \$882,969 | \$39,863 | 4.51 | 2007-08 | \$63,479,513 | \$2,745,747 | 4.32 |
| 2008-09 | \$6,353,078 | \$133,004 | 2.09 | 2008-09 | \$60,003,197 | \$1,334,677 | 2.22 |
| 2009-10 | \$9,572,380 | \$65,231 | 0.68 | 2009-10 | \$65,080,839 | \$423,804 | 0.65 |
| 2010-11 | \$6,444,910 | \$30,828 | 0.48 | 2010-11 | \$67,221,703 | \$332,579 | 0.49 |
| 2011-12 | \$9,080,017 | \$33,974 | 0.37 | 2011-12 | \$63,632,717 | \$242,989 | 0.38 |
| 2012-13 | \$5,729,912 | \$19,699 | 0.34 | 2012-13 | \$60,754,893 | \$186,764 | 0.31 |
| 2013-14 | \$2,263,360 | \$5,755 | 0.25 | 2013-14 | \$55,335,616 | \$137,715 | 0.25 |
| 2014-15 | \$2,215,814 | \$5,799 | 0.26 | 2014-15 | \$59,138,661 | \$159,084 | 0.27 |
| 2015-16 | \$971,008 | \$4,315 | 0.44 | 2015-16 | \$65,367,748 | \$283,376 | 0.43 |

## Financial Community Coverage

The following firms conducted investment transactions with the State Treasurer's Office during Fiscal Year 2015-16.

| $1^{\text {st }}$ Capital Bank | Drexel Hamilton LLC | Pacific Commerce Bank |
| :---: | :---: | :---: |
| $1{ }^{\text {st }}$ Century Bank, N.A. | East West Bank | Pacific Enterprise Bank |
| Academy Securities, Inc | EverTrust Bank | Pacific Western Bank |
| Alamo Capital | Farmers \& Merchants Bank | Preferred Bank |
| American Plus Bank | First Foundation Bank | Premier Business Bank |
| American River Bank | First National Bank of Northern California | Presidio Bank |
| Banc of California, NA | First Republic Bank | Prospectors Federal Credit Union |
| Bank Leumi USA | Five Star Bank | Provident Credit Union |
| Bank of Montreal | Folsom Lake Bank | Rabobank International New York |
| Bank of San Francisco | General Electric Capital | RBC Capital Markets, LLC |
| Bank of the Sierra | Grandpoint Bank | River City Bank |
| Bank of the West | Great Pacific Securities | SAFE Credit Union |
| Bank of Tokyo-Mitsubishi LTD (The) | Hanmi Bank | San Diego County CU |
| Barclays Capital Inc. | Heritage Bank of Commerce | Santa Cruz County Bank |
| BBCN Bank | Heritage Oaks Bank | Schools Financial Credit Union |
| Beneficial State Bank | ICAP Corporates LLC | Scotia Capital Markets (USA) Inc. |
| BGC Brokers Inc. | Jefferies LLC | SG Americas Securities LLC |
| Blaylock Beal Van LLC | J.P. Morgan Securities LLC | Siebert Brandford Shank \& Co. |
| BMO Capital Markets Corp. | KGS Alpha Capital Markets | Sierra Vista Bank |
| BNP Paribas Securities Corp. | Kinecta Federal Credit Union | Signature Securities Group Corp. |
| Bofl Federal Bank | Loop Capital Markets LLC | Societe Generale |
| California Bank of Commerce | Malaga Bank | State Bank of India (California) |
| California Coast Credit Union | Manufacturers Bank | Stifel, Nicolaus and Co. Inc. |
| California United Bank | Mechanics Bank | Summit State Bank |
| Cantor Fitzgerald and Co. | Merchants National Bank of Sacramento | Sutter Securities Inc. |
| CastleOak Securities LP | Meriwest Credit Union | TD Securities (USA) LLC |
| Cathay Bank | Merrill Lynch, Pierce, Fenner \& Smith Inc. | Toyota Motor Credit Corp. |
| Central Valley Community Bank | Mesirow Financial Inc. | Trans Pacific National Bank |
| CIBC World Markets Corp. | Metropolitan Bank | Travis Credit Union |
| Citigroup Global Markets Inc. | MFR Securities Inc. | Tri Counties Bank |
| Citizens Business Bank | Mischler Financial Group, Inc. | Tri-Valley Bank |
| Comerica Bank | Mission Federal Credit Union | Tullet Prebon |
| CommerceWest Bank | Mission National Bank | U.S. Bank NA |
| Commonwealth Business Bank | Mission Valley Bank | Umpqua Bank |
| Community 1st Bank | Mizuho Securities USA Inc. | Union Banc Investment Services |
| Community Bank | Morgan Stanley \& Co. LLC | Uniti Bank |
| Community Bank of the Bay | Multi-Bank Securities, Inc. | US Metro Bank |
| Community Business Bank | New Omni Bank, N.A. | Wells Fargo Securities, LLC |
| Community Valley Bank | Oak Valley Community Bank | Wescom Central Credit Union |
| Community West Bank | Open Bank | Western Alliance Bank |
| Cornerstone Community Bank | Opus Bank | Williams Capital Group, LP (The) |
| CTBC Bank | Pacific Alliance Bank | Wilshire Bank |
| Daiwa Capital Markets America Inc. | Pacific City Bank | Woori America Bank |

## 2. Local Agency Investment Fund

## PROGRAM SUMMARY

The Local Agency Investment Fund (LAIF) was established by Chapter 730, Statutes of 1976 . This fund enables local governmental agencies or trustees to remit money not required for immediate needs to the State Treasurer for the purpose of investment. In order to derive the maximum rate of return possible, the State Treasurer has elected to invest these monies as a part of the PMIA.

Each participating agency determines the length of time its money will be on deposit with the State Treasurer with the exception of bond proceeds, which must remain for a minimum of 30 days. At the end of each quarter, all earnings derived from investments are distributed by the State Controller to the participating government agencies in proportion to each agency's respective amounts deposited in the LAIF and the length of time such amounts remained in the LAIF. Prior to the distribution, the state's reasonable costs of administering the program are deducted from the earnings. As of June 30, 2016, there were 2,464 participants in the LAIF consisting of 53 counties, 474 cities, 1,591 special districts, 251 trustees and 95 bond accounts.

FISCAL YEAR IN REVIEW
Resources
\$20.81 billion per day on average

| Earnings | $\$ 90.71$ million |
| :--- | ---: |
| Earning Rate | 0.43 percent |

LOCAL AGENCY INVESTMENT FUND PARTICIPATION AS OF 6/30/16, 2,464 AGENCIES


## 3. Surplus Money Investment Fund

## PROGRAM SUMMARY

The Surplus Money Investment Fund (SMIF) consists of the available cash of all special funds which do not have their own investment authority, and all or a portion of the available cash of special funds having investment authority of their own, but which have elected to be included in the program. Cash balances in excess of needs in any of these participating funds are invested by the State Treasurer.

The PMIB determines whether any cash balances of the participating funds exceed current needs and are available for investment, or whether it is necessary to liquidate previous investments to meet current requirements. This determination is performed operationally by the State Controller by means of a continuing review of the cash balances of the participating funds.

As a result of these determinations, the State Controller prepares a document for the PMIB's approval which authorizes it to increase or decrease the invested balances of the applicable funds.

All of the resources of the SMIF are invested through the PMIA. Prior to Fiscal Year 1967-68, the SMIF was a separate
investment program. In 1967, legislation was enacted (Chapter 505, Statutes of 1967) which required that money in the SMIF be invested through the PMIA. This legislation further provided that the SMIF would share in the interest earnings of the PMIA based on the ratio of the dollar-day contributions of the SMIF to the dollar-day investments of the PMIA.

This legislation increased the potential investment earnings for both programs, since their high and low resource periods tend to complement each other. Consequently, under normal market conditions, more long-term, higher yielding securities may be purchased.

There were more than a thousand special funds and accounts participating in the SMIF as of June 30, 2016. Their combined deposits totaled $\$ 36.071$ billion. Total resources for SMIF were $\$ 37.944$ billion per quarter.

Gross earnings totaled $\$ 149.682$ million for Fiscal Year 2015-16. This represents an earning rate of 0.43 percent for this investment program. SMIF earnings are computed on a dollar-day basis to guarantee equitable distribution among all member funds and apportioned quarterly by the State Controller.

RESOURCES OF SMIF BY MONTH-END, FISCAL YEAR $2015-16$ (\$ in millions)

| \$40,000 |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| \$37,500 |  |  |  |  |  |  |  |  |  |  |  |  |
| \$35,000 |  |  |  |  |  |  |  |  |  |  |  |  |
| \$32,500 |  |  |  |  |  |  |  |  |  |  |  |  |
| Month | July 2015 | Aug | Sept | Oct | Nov | Dec | Jan 2016 | Feb | Mar | Apr | May | June |
| Amount | \$33,753.2 | 35,299. | 36,691. | 3,422 | 34,608. | 3,867 | \$34,404.6 | 5,109 | 6,071 | 4,111 | 35,972. | 37,943 |

## 4. Centralized Treasury and Securities Management

Investments of the Pooled Money Investment Account (PMIA) are made from money flowing through the State Treasurer's non-interest bearing demand accounts, which are maintained with eight banks for the purpose of providing necessary statewide depository coverage for the remittance of funds collected by the various state agencies. These bank accounts are managed by the Centralized Treasury and Securities Management Division (CTSMD), which oversees all banking aspects of the Centralized Treasury System (CTS). The goals of the CTSMD are to maximize the earning of interest consistent with safe and prudent treasury management and to ensure that the depository banks provide the state with proper and adequate security for the deposit of state monies.

Within CTSMD, Securities and Banking Services (SBS) manages the demand account banking functions (through which $\$ 2$ trillion flows each year), meets the cash liquidity needs of all state agencies and departments, and ensures that all idle funds are invested daily. It accomplishes this by forecasting agency revenue collections and disbursements and their impact on the PMIA and using compensating balances to allow for the variances in cash flow that are a natural consequence when forecasting the movement of cash. During the fiscal year, the balances allowed for banking services represent compensation for handling 342,527 bank deposits, 35 million checks deposited, 84,834 dishonored checks, $\$ 771$ million in currency and coin deposited, and 68.8 million warrants/agency checks/ vouchers paid.

In addition, SBS clears and settles securities purchased and sold for investment by the State Treasurer for the PMIA and other active investment funds. The SBS also clears and settles securities pledged to the state for certain agencies or departments, including the Department of Insurance
and the Employment Development Department. SBS managed $\$ 110$ billion in investment and pledged securities consisting of 8,880 positions for 1,348 accounts; 13.2 million shares of stock for two State Compensation Insurance Fund programs; and 239 time deposits representing $\$ 5.549$ billion for 77 financial institutions in the Time Deposit Program. During the fiscal year, SBS cleared and settled approximately 52,000 transaction items totaling $\$ 327.29$ billion and 10.2 million shares of stock.

Also within CTSMD, Banking Operations (BO) administers, clears and settles securities pledged as collateral by California financial institutions to the state for the Time Deposit, Demand, and State Agency programs. It ensures that all collected funds on deposit are collateralized in accordance with state law. BO managed over \$10 billion in securities consisting of 2,249 positions for 95 financial institutions. During the fiscal year, it cleared and settled approximately 16,000 security transactions totaling $\$ 36.6$ billion. BO administers the safekeeping of items in the State Treasurer's Office vault, completing approximately 150 transactions for 500 items with an average monthly inventory of 13,000 items. It is responsible for the custody and protection of securities and items inside the vault as well as the physical security of the vault.

BO also redeems all items presented by banks for payment (about 280,000 items daily), handles forgeries, and manages stop payments. It reconciles deposits made by various state agencies and departments into the CTS accounts as set up by the Treasurer, ensuring that all financial activities are accurately and timely posted by the state depository banks. In addition, BO manages the Electronic Funds Transfer collection and miscellaneous sort/pre-sort deposit programs, under which the state collected almost $\$ 193$ billion during the fiscal year.

SCHEDULE OF BANKING SERVICES, FISCAL YEAR 2015-16

| NON-EFT CONTRACT SERVICES | Actual Volume | Approved Charges | Actual Cost |
| :---: | :---: | :---: | :---: |
| Encoded Checks Deposited |  |  |  |
| Encoded Checks On Us | 24 | \$0.04 | \$0.96 |
| ICL Encoded On Us | 14,613,803 | \$0.03 | \$438,414 |
| Encoded Checks Other | 642,461 | \$0.053 | \$34,050 |
| ICL Encoded Other | 260,494 | \$0.03 | \$7,815 |
| ICL Encoded Other (Misc Sort) | 9,451,810 | \$0.01 | \$94,518 |
| Remote Site Checks | 2,762,531 | \$0.05 | \$138,127 |
| Non-Encoded Checks | 7,318,554 | \$0.09 | \$658,670 |
| Other |  |  |  |
| Dishonored Checks | 84,834 | \$6.20 | \$525,971 |
| Regular Deposits | 120,554 | \$1.40 | \$168,776 |
| Split Bag Deposits | 141,116 | \$0.55 | \$77,614 |
| Electronic Deposits (ICL, RSD) | 80,857 | \$1.00 | \$80,857 |
| Currency and Coin Deposited | 770,723,797 | \$0.00105 | \$809,260 |
| Warrants/Agency Checks/Vouchers Paid | 68,800,863 | \$0.01 | \$688,009 |
| ACH Transactions | 290,385 | \$0.01 | \$2,904 |
| Checks Paid | 146 | \$0.12 | \$18 |
| Direct Billed Services |  |  | \$618,916 |
| SUBTOTAL NON-EFT CONTRACT SERVICES |  |  | \$4,343,918 |
| EFT CONRACT SERVICES (DIRECT BILLED) |  |  |  |
| ACH CREDITS | 6,901,588 | \$0.021 | \$144,933 |
| ACH DEBITS | 2,014,658 | \$0.50 | \$1,007,329 |
| Category II Items Processed | 11,410,456 | \$0.015 | \$171,157 |
| RETURNED/REJECTED Items | 188,971 | \$2.50 | \$472,428 |
| Other transactions | 137,157 | Various | \$165,798 |
| SUBTOTAL EFT CONTRACT SERVICES SERVICES |  |  | \$1,961,645 |
| total banking Services |  |  | \$6,305,563 |

AVERAGE DAILY BALANCE IN DEMAND BANK ACCOUNTS, FISCAL YEAR 2015-16 (\$ in thousands)

| Month | Bank Balance <br> Required for <br> Banking Services | Bank Balance <br> Required for <br> Uncollected Funds | Less Net <br> Delayed Deposit <br> Credit | Bank Balance <br> Prescribed by <br> PMIB | Actual <br> Average Daily <br> Bank Balance |
| :--- | :---: | :---: | :---: | :---: | :---: |
| July 2015 | $\$ 2,084,868$ | $\$ 93,475$ | $\$ 2,853$ | $\$ 2,175,490$ | $\$ 2,177,011$ |
| August | $2,158,436$ | 78,682 | 1,934 | $2,235,184$ | $\$ 2,231,696$ |
| September | $2,110,090$ | 63,298 | 1,479 | $2,171,910$ | $\$ 2,176,560$ |
| October | $2,006,569$ | 61,339 | 2,024 | $2,065,885$ | $\$ 2,056,193$ |
| November | $1,790,633$ | 83,910 | 1,713 | $1,872,830$ | $\$ 1,834,923$ |
| December | $1,882,161$ | 49,621 | 1,710 | $1,930,072$ | $\$ 1,947,602$ |
| January 2016 | $1,914,240$ | 71,822 | 2,275 | $1,983,787$ | $\$ 2,003,121$ |
| February | $2,016,275$ | 95,809 | 3,131 | $2,108,953$ | $\$ 2,109,491$ |
| March | $1,899,239$ | 61,597 | 2,607 | $1,958,228$ | $\$ 1,976,110$ |
| April | $2,458,903$ | 58,138 | 1,303 | $2,515,738$ | $\$ 2,496,920$ |
| May | $2,084,115$ | 93,307 | 2,065 | $2,175,357$ | $\$ 2,216,844$ |
| June | $2,503,835$ | 56,732 | 2,660 | $2,557,908$ | $\$ 2,527,117$ |
| WEIGHTED AVERAGE | $\$ 2,074,575$ | $\$ 72,257$ | $\$ 2,145$ | $\$ 2,144,687$ | $\$ 2,145,100$ |

AVERAGE DAILY BALANCE IN DEMAND BANK ACCOUNTS, FISCAL YEAR $2015-16$ (\$ in millions)


## Appendix A

| POOLED MONEY INVESTMENT ACCOUNT SUMMARY OF INVESTMENTS AND EARNINGS (\$ in thousands) |  |  |  |
| :---: | :---: | :---: | :---: |
| Fiscal Year | Average Investment Portfolio | Earnings | Annual <br> Earnings <br> Rate (\%) |
| 1956-57 | \$393,742 | \$9,573 | 2.43 |
| 1957.58 | \$594,306 | \$16,421 | 2.76 |
| 1958-59 | \$544,868 | \$15,762 | 2.89 |
| 1959-60 | \$614,835 | \$21,045 | 3.42 |
| 1960-61 | \$736,204 | \$28,139 | 3.82 |
| 1961.62 | \$867,144 | \$26,521 | 3.06 |
| 1962-63 | \$910,863 | \$30,548 | 3.35 |
| 1963-64 | \$896,535 | \$32,519 | 3.63 |
| 1964-65 | \$966,592 | \$38,004 | 3.93 |
| 1965-66 | \$1,083,347 | \$47,761 | 4.41 |
| 1966-67 | \$1,057,800 | \$52,540 | 4.97 |
| 1967-68 | \$1,117,717 | \$56,566 | 5.06 |
| 1968-69 | \$1,301,302 | \$78,174 | 6.01 |
| 1969-70 | \$1,216,414 | \$84,781 | 6.97 |
| 1970-71 | \$1,264,894 | \$77,527 | 6.13 |
| 1971-72 | \$1,397,494 | \$68,350 | 4.89 |

POOLED MONEY INVESTMENT ACCOUNT
SUMMARY OF INVESTMENTS AND EARNINGS
(\$ in thousands), CONTINUED

| Fiscal <br> Year | Average <br> Investment <br> Portfolio | Earnings | Annual <br> Earnings <br> Rate (\%) |
| :---: | :---: | :---: | :---: |
| $1972-73$ | $\$ 2,254,401$ | $\$ 125,116$ | 5.55 |
| $1973-74$ | $\$ 2,594,629$ | $\$ 232,780$ | 8.97 |
| $1974-75$ | $\$ 2,749,431$ | $\$ 238,298$ | 8.67 |
| $1975 \cdot 76$ | $\$ 3,209,143$ | $\$ 204,303$ | 6.37 |
| $1976-77$ | $\$ 4,460,487$ | $\$ 261,657$ | 5.87 |
| $1977-78$ | $\$ 6,843,940$ | $\$ 458,625$ | 6.70 |
| $1978-79$ | $\$ 8,123,266$ | $\$ 692,417$ | 8.52 |
| $1979-80$ | $\$ 8,285,941$ | $\$ 873,469$ | 10.54 |
| $1980-81$ | $\$ 7,298,693$ | $\$ 786,877$ | 10.78 |
| $1981-82$ | $\$ 5,234,524$ | $\$ 631,968$ | 12.07 |
| $1982-83$ | $\$ 5,254,589$ | $\$ 549,229$ | 10.45 |
| $1983-84$ | $\$ 7,094,849$ | $\$ 738,462$ | 10.41 |
| $1984-85$ | $\$ 11,903,660$ | $\$ 1,275,503$ | 10.72 |
| $1985-86$ | $\$ 15,438,406$ | $\$ 1,401,990$ | 9.08 |
| $1986-87$ | $\$ 19,167,196$ | $\$ 1,425,047$ | 7.43 |
| $1987-88$ | $\$ 17,628,558$ | $\$ 1,388,074$ | 7.87 |

POOLED MONEY INVESTMENT ACCOUNT SUMMARY OF INVESTMENTS AND EARNINGS ( $\$$ in thousands), CONTINUED

| Fiscal Year | Average Investment Portfolio | Earnings | Annual Earnings Rate (\%) |
| :---: | :---: | :---: | :---: |
| 1988-89 | \$17,496,405 | \$1,516,767 | 8.67 |
| 1989-90 | \$19,558,775 | \$1,692,905 | 8.66 |
| 1990-91 | \$20,754,895 | \$1,663,140 | 8.01 |
| 1991.92 | \$21,456,433 | \$1,329,476 | 6.20 |
| $1992-93$ | \$23,051,543 | \$1,085,126 | 4.71 |
| 1993-94 | \$25,433,078 | \$1,115,660 | 4.39 |
| 1994-95 | \$26,802,123 | \$1,482,574 | 5.53 |
| 1995-96 | \$26,623,196 | \$1,519,020 | 5.71 |
| 1996-97 | \$28,264,069 | \$1,582,443 | 5.60 |
| 1997-98 | \$29,344,512 | \$1,672,382 | 5.70 |
| 1998-99 | \$33,451,088 | \$1,787,765 | 5.34 |
| 1999-00 | \$35,029,034 | \$1,999,483 | 5.71 |
| 2000-01 | \$43,840,421 | \$2,676,158 | 6.10 |
| 2001-02 | \$49,827,077 | \$1,716,545 | 3.45 |


| Fiscal Year | Average Investment Portfolio | Earnings | Annual <br> Earnings <br> Rate (\%) |
| :---: | :---: | :---: | :---: |
| 2002-03 | \$52,636,648 | \$1,132,930 | 2.15 |
| 2003-04 | \$54,581,850 | \$836,072 | 1.53 |
| 2004-05 | \$53,860,487 | \$1,215,116 | 2.26 |
| 2005-06 | \$55,714,817 | \$2,157,845 | 3.87 |
| 2006-07 | \$58,147,441 | \$2,977,625 | 5.12 |
| 2007-08 | \$63,479,513 | \$2,745,747 | 4.32 |
| 2008-09 | \$60,003,197 | \$1,334,677 | 2.22 |
| 2009-10 | \$65,080,839 | \$423,804 | 0.65 |
| 2010-11 | \$67,221,703 | \$332,579 | 0.49 |
| 2011-12 | \$63,632,717 | \$242,989 | 0.38 |
| 2012-13 | \$60,754,893 | \$186,764 | 0.31 |
| 2013-14 | \$55,335,616 | \$137,715 | 0.25 |
| 2014-15 | \$59,138,661 | \$159,084 | 0.27 |
| 2015-16 | \$65,367,748 | \$283,376 | 0.43 |

## Appendix B

| HISTORICAL PMIA YIELDS (\% per year) |  |  |  |
| :---: | :---: | :---: | :---: |
| Date | Annual <br> Average | Allocation Rate |  |
|  |  | LAIF Quarterly | SMIF <br> Semi-Annual |
| Mar-77 |  | 5.68 |  |
| Jun-77 | 5.87 | 5.78 | 5.79 |
| Sep-77 |  | 5.84 |  |
| Dec-77 |  | 6.45 | 6.18 |
| Mar-78 |  | 6.97 |  |
| Jun-78 | 6.70 | 7.35 | 7.17 |
| Sep-78 |  | 7.86 |  |
| Dec-78 |  | 8.32 | 8.09 |
| Mar-79 |  | 8.81 |  |
| Jun-79 | 8.52 | 9.10 | 8.98 |
| Sep-79 |  | 9.26 |  |
| Dec-79 |  | 10.06 | 9.66 |
| Mar-80 |  | 11.11 |  |
| Jun-80 | 10.54 | 11.54 | 11.38 |
| Sep-80 |  | 10.01 |  |

## HISTORICAL PMIA YIELDS <br> (\% per year), CONTINUED

| Date | Annual <br> Average | Allocation Rate |  |
| :---: | :---: | :---: | :---: |
|  |  | LAIF Quarterly | SMIF <br> Semi-Annual |
| Dec-80 |  | 10.47 | 10.21 |
| Mar-81 |  | 11.23 |  |
| Jun-81 | 10.78 | 11.68 | 11.69 |
| Sep-81 |  | 12.40 |  |
| Dec-81 |  | 11.91 | 12.19 |
| Mar-82 |  | 11.82 |  |
| Jun-82 | 12.07 | 11.99 | 11.93 |
| Sep-82 |  | 11.74 |  |
| Dec-82 |  | 10.71 | 11.26 |
| Mar-83 |  | 9.87 |  |
| Jun-83 | 10.45 | 9.64 | 9.98 |
| Sep-83 |  | 10.04 |  |
| Dec-83 |  | 10.18 | 10.15 |
| Mar-84 |  | 10.32 |  |
| Jun-84 | 10.41 | 10.88 | 10.63 |

## HISTORICAL PMIA YIELDS <br> (\% per year), CONTINUED

| Date | Annual <br> Average | Allocation Rate |  |
| :---: | :---: | :---: | :---: |
|  |  | LAIF Quarterly | SMIF Semi-Annual |
| Sep-84 |  | 11.53 |  |
| Dec-84 |  | 11.41 | 11.44 |
| Mar-85 |  | 10.32 |  |
| Jun-85 | 10.72 | 9.98 | 10.19 |
| Sep-85 |  | 9.54 |  |
| Dec-85 |  | 9.43 | 9.50 |
| Mar-86 |  | 9.09 |  |
| Jun-86 | 9.08 | 8.39 | 8.70 |
| Sep-86 |  | 7.81 |  |
| Dec-86 |  | 7.48 | 7.65 |
| Mar-87 |  | 7.24 |  |
| Jun-87 | 7.44 | 7.21 | 7.23 |
| Sep-87 |  | 7.54 |  |
| Dec-87 |  | 7.97 | 7.80 |
| Mar-88 |  | 8.01 |  |
| Jun-88 | 7.87 | 7.87 | 7.95 |
| Sep-88 |  | 8.20 |  |
| Dec-88 |  | 8.45 | 8.34 |
| Mar-89 |  | 8.76 |  |
| Jun-89 | 8.67 | 9.13 | 8.97 |
| Sep-89 |  | 8.87 |  |
| Dec-89 |  | 8.68 | 8.78 |
| Mar-90 |  | 8.52 |  |
| Jun-90 | 8.66 | 8.50 | 8.52 |
| Sep-90 |  | 8.39 |  |
| Dec-90 |  | 8.27 | 8.34 |

HISTORICAL PMIA YIELDS
(\% per year), CONTINUED

| Date | Annual <br> Average | Allocation Rate |  |
| :---: | :---: | :---: | :---: |
|  |  | LAIF Quarterly | SMIF <br> Semi-Annual |
| Mar-91 |  | 7.97 |  |
| Jun-91 | 8.01 | 7.38 | 7.67 |
| Sep-91 |  | 7.00 |  |
| Dec-91 |  | 6.52 | 6.74 |
| Mar-92 |  | 5.87 |  |
| Jun-92 | 6.20 | 5.45 | 5.65 |
| Sep-92 |  | 4.97 |  |
| Dec-92 |  | 4.67 | 4.82 |
| Mar-93 |  | 4.64 |  |
| Jun-93 | 4.71 | 4.51 | 4.61 |
| Sep-93 |  | 4.44 |  |
| Dec-93 |  | 4.36 | 4.39 |
| Mar-94 |  | 4.25 |  |
| Jun-94 | 4.39 | 4.45 | 4.36 |
| Sep-94 |  | 4.96 |  |
| Dec-94 |  | 5.37 | 5.15 |
| Mar-95 |  | 5.76 |  |
| Jun-95 | 5.53 | 5.98 | 5.87 |
| Sep-95 |  | 5.89 |  |
| Dec-95 |  | 5.76 | 5.83 |
| Mar-96 |  | 5.62 |  |
| Jun-96 | 5.71 | 5.52 | 5.56 |
| Sep-96 |  | 5.57 |  |
| Dec-96 |  | 5.58 | 5.57 |
| Mar-97 |  | 5.56 |  |
| Jun-97 | 5.59 | 5.63 | 5.59 |

## HISTORICAL PMIA YIELDS <br> (\% per year), CONTINUED

| Date | Annual <br> Average | Allocation Rate |  |
| :---: | :---: | :---: | :---: |
|  |  | LAIF Quarterly | SMIF Semi-Annual |
| Sep-97 |  | 5.68 |  |
| Dec-97 |  | 5.71 | 5.69 |
| Mar-98 |  | 5.70 |  |
| Jun-98 | 5.70 | 5.66 | 5.67 |
| Sep-98 |  | 5.64 |  |
| Dec-98 |  | 5.46 | 5.55 |
| Mar-99 |  | 5.19 |  |
| Jun-99 | 5.34 | 5.08 | 5.13 |
| Sep-99 |  | 5.21 |  |
| Dec-99 |  | 5.49 | 5.34 |
| Mar-00 |  | 5.80 |  |
| Jun-00 | 5.71 | 6.18 | 5.99 |
| Sep-00 |  | 6.47 |  |
| Dec-00 |  | 6.52 | 6.49 |
| Mar-01 |  | 6.16 |  |
| Jun-01 | 6.10 | 5.32 | 5.73 |
| Sep-01 |  | 4.47 |  |
| Dec-01 |  | 3.52 | 3.99 |
| Mar-02 |  | 2.96 |  |
| Jun-02 | 3.45 | 2.75 | 2.85 |
| Sep-02 |  | 2.63 |  |
| Dec-02 |  | 2.31 | 2.47 |
| Mar-03 |  | 1.98 |  |
| Jun-03 | 2.15 | 1.77 | 1.86 |
| Sep-03 |  | 1.63 |  |
| Dec-03 |  | 1.56 | 1.59 |

HISTORICAL PMIA YIELDS (\% per year), CONTINUED

| Date | Annual <br> Average | Allocation Rate |  |
| :---: | :---: | :---: | :---: |
|  |  | LAIF Quarterly | SMIF Quarterly* |
| Mar-04 |  | 1.47 | 1.47 |
| Jun-04 | 1.53 | 1.44 | 1.44 |
| Sep-04 |  | 1.67 | 1.67 |
| Dec-04 |  | 2.00 | 2.00 |
| Mar-05 |  | 2.38 | 2.37 |
| Jun-05 | 2.26 | 2.85 | 2.85 |
| Sep-05 |  | 3.18 | 3.18 |
| Dec-05 |  | 3.63 | 3.63 |
| Mar-06 |  | 4.03 | 4.03 |
| Jun-06 | 3.87 | 4.53 | 4.53 |
| Sep-06 |  | 4.93 | 4.93 |
| Dec-06 |  | 5.11 | 5.11 |
| Mar-07 |  | 5.17 | 5.17 |
| Jun-07 | 5.12 | 5.23 | 5.23 |
| Sep-07 |  | 5.24 | 5.24 |
| Dec-07 |  | 4.96 | 4.96 |
| Mar-08 |  | 4.18 | 4.17 |
| Jun-08 | 4.33 | 3.11 | 3.11 |
| Sep-08 |  | 2.77 | 2.77 |
| Dec-08 |  | 2.54 | 2.53 |
| Mar-09 |  | 1.91 | 1.90 |
| Jun-09 | 2.22 | 1.51 | 1.51 |
| Sep-09 |  | 0.90 | 0.89 |
| Dec-09 |  | 0.60 | 0.59 |
| Mar-10 |  | 0.56 | 0.55 |
| Jun-10 | 0.65 | 0.56 | 0.56 |

## HISTORICAL PMIA YIELDS <br> (\% per year), CONTINUED

| Date | Annual <br> Average | Allocation Rate |  |
| :---: | :---: | :---: | :---: |
|  |  | LAIF Quarterly | SMIF Quarterly* |
| Sep-10 |  | 0.51 | 0.50 |
| Dec-10 |  | 0.46 | 0.46 |
| Mar-11 |  | 0.51 | 0.51 |
| Jun-11 | 0.50 | 0.48 | 0.48 |
| Sep-11 |  | 0.38 | 0.38 |
| Dec-11 |  | 0.38 | 0.38 |
| Mar-12 |  | 0.38 | 0.37 |
| Jun-12 | 0.38 | 0.36 | 0.36 |
| Sep-12 |  | 0.35 | 0.35 |
| Dec-12 |  | 0.32 | 0.32 |
| Mar-13 |  | 0.28 | 0.28 |
| Jun-13 | 0.31 | 0.24 | 0.25 |
| Sep-13 |  | 0.26 | 0.25 |
| Dec-13 |  | 0.26 | 0.25 |
| Mar-14 |  | 0.23 | 0.22 |
| Jun-14 | 0.25 | 0.22 | 0.23 |
| Sep-14 |  | 0.24 | 0.23 |
| Dec-14 |  | 0.25 | 0.25 |
| Mar-15 |  | 0.26 | 0.25 |
| Jun-15 | 0.27 | 0.28 | 0.28 |
| Sep-15 |  | 0.32 | 0.32 |
| Dec-15 |  | 0.37 | 0.36 |
| Mar-16 |  | 0.46 | 0.46 |
| Jun-16 | 0.43 | 0.55 | 0.54 |

*Effective January 1, 2004, SMIF earnings are allocated quarterly.


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