



STAR OHIO

**ANNUAL REPORT
2019**

ROBERT SPRAGUE
— OHIO TREASURER —

ROBERT SPRAGUE

OHIO TREASURER

Dear Public Funds Managers,

It is my pleasure to provide the State Treasury Asset Reserve of Ohio (STAR Ohio) annual report for the fiscal year ending June 30, 2019. As the chief administrator of the STAR Ohio fund, I am committed to protecting public monies and investing wisely in Ohio's future.

STAR Ohio is an innovative and secure investment option for public funds managers across Ohio. The program provides government subdivisions – from municipalities to school districts – the ability to invest in a highly rated public investment pool. Since 1995, STAR Ohio has maintained Standard & Poor's highest rating (AAAm), demonstrating a long history of soundness and security.

Last year saw STAR Ohio continue to grow and mark new territory. For the first time since its inception, the fund exceeded \$12.5 billion in assets while participation in the program grew from 2,450 accounts to more than 2,600.

In addition to STAR Ohio, the Treasurer's office also administers the STAR Plus program. STAR Plus provides participating government subdivisions with full FDIC insurance coverage on deposits. This supplemental program can assist public fund managers seeking to improve overall portfolio performance.

My office is committed to building on last year's success, and we are continuously working to improve the STAR Ohio and STAR Plus programs. That is why your feedback is important to us. We invite you to share your thoughts and ideas about the STAR Ohio and STAR Plus programs.

For questions about these programs, please contact us via email at info@starohio.com or by phone at **1-800-648-STAR (7827)**.

Sincerely,



Robert Sprague
Ohio Treasurer of State

MANAGEMENT'S DISCUSSION & ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS (UNAUDITED)

BACKGROUND

The State Treasury Asset Reserve of Ohio (“STAR Ohio” or the “Fund”) is a statewide investment pool (“Pool”) managed and administered by the State Treasurer of Ohio (the “Treasurer”). Participation is offered to Ohio’s political subdivisions as a means to invest in a portfolio of short-term investment securities. The objectives of STAR Ohio are the preservation of capital, the maintenance of liquidity, and providing current income. STAR Ohio is similar in concept to a registered investment company, commonly called a “money market mutual fund”. Our discussion and analysis below is based upon currently known facts and conditions that we judge to have had a material effect on STAR Ohio’s financial condition and results of operations.

The Treasurer is committed to maintaining STAR Ohio as a top-rated investment option for all government subdivisions of the State. As such, the level of safety in the Fund is attributed to the constant monitoring of credit ratings for issuers of investments held by STAR Ohio. An additional level of safety is the custodial arrangement requiring the Fund’s assets be held in a specific trust account at the Depository Trust & Clearing Corporation designated for STAR Ohio. Both measures ensure that the underlying assets of STAR Ohio are highly rated, secure, and readily available to the Fund.

OVERVIEW OF FINANCIAL CONDITION

STAR Ohio’s net position increased by approximately \$2.2 billion, or 20.7%, during the fiscal year ended June 30, 2019, due to net subscriptions. Toward the end of the fiscal year, the U.S. economy had moderated keeping interest rates relatively stable to slightly lower. As a result, the yield of STAR Ohio remained within a consistent range. STAR Ohio’s objectives of safety and liquidity have made the Fund a valuable investment vehicle for Ohio’s public fund managers. STAR Ohio maintains its AAAM rating from Standard and Poor’s, the highest rating possible for a Local Government Investment Pool.

OVERVIEW OF OPERATIONS

The Federal Funds’ target rate ranged between 200 and 250 basis points (2.00% - 2.50%) during STAR Ohio’s Fiscal Year 2019. STAR Ohio’s average yield for Fiscal Year 2019 was 2.36%. For the fiscal year ended June 30, 2019, the advisor was paid a management fee in the amount of \$2,000,000. As of June 30, 2019, STAR Ohio held approximately 40% of its portfolio in overnight investments, which included approximately 5% in collateralized bank deposits.

Independent Auditors' Report

To the Treasurer of the State of Ohio, Robert Sprague
State Treasury Asset Reserve of Ohio

Report on the Financial Statements

We have audited the accompanying statement of assets and liabilities, including the statement of investments, of State Treasury Asset Reserve of Ohio (STAR Ohio) as of and for the year ended June 30, 2019 and the related statements of operations and changes in net position, the financial highlights for each of the two years in the period then ended, and the related notes to the financial statements, which collectively comprise State Treasury Asset Reserve of Ohio's basic financial statements.

Management's Responsibility for the Financial Statements

Management is responsible for the preparation and fair presentation of these financial statements in accordance with accounting principles generally accepted in the United States of America; this includes the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error.

Auditor's Responsibility

Our responsibility is to express an opinion on these financial statements based on our audit. We conducted our audit in accordance with auditing standards generally accepted in the United States of America and the standards applicable to financial audits contained in *Government Auditing Standards*, issued by the Comptroller General of the United States. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statements. The procedures selected depend on the auditor's judgment, including the assessment of the risks of material misstatement of the financial statements, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the entity's preparation and fair presentation of the financial statements in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the entity's internal control. Accordingly, we express no such opinion. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluating the overall presentation of the financial statements.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.

Opinion

In our opinion, the basic financial statements referred to above present fairly, in all material respects, the financial position of State Treasury Asset Reserve of Ohio as of June 30, 2019 and the results of its operations, changes in net position, and financial highlights for each of the two years in the period then ended in accordance with accounting principles generally accepted in the United States of America.

Other Matters

Required Supplementary Information

Accounting principles generally accepted in the United States of America require that the management's discussion and analysis on page 3 be presented to supplement the basic financial statements. Such information, although not a part of the basic financial statements, is required by the Governmental Accounting Standards Board, which considers it to be an essential part of financial reporting for placing the basic financial statements in an appropriate operational, economic, or historical context. We have applied certain limited procedures to the required supplementary information in accordance with auditing standards generally accepted in the United States of America, which consisted of inquiries of management about the methods of preparing the information and comparing the information for consistency with management's responses to our inquiries, the basic financial statements, and other knowledge we obtained during our audit of the basic financial statements. We do not express an opinion or provide any assurance on the information because the limited procedures do not provide us with sufficient evidence to express an opinion or provide any assurance.

Other Information

Our audit was conducted for the purpose of forming an opinion on the financial statements that collectively comprise State Treasury Asset Reserve of Ohio's basic financial statements. The appendix is presented for the purpose of additional analysis and is not a required part of the basic financial statements.

The appendix has not been subjected to the auditing procedures applied in the audit of the basic financial statements, and, accordingly, we do not express an opinion or provide any assurance on it.

Report on Summarized Comparative Information

We have previously audited State Treasury Asset Reserve of Ohio's June 30, 2018 financial statements, and we expressed an unmodified audit opinion on those audited financial statements in our report dated August 14, 2018. In our opinion, the summarized comparative information presented herein as of and for the year ended June 30, 2018 is consistent, in all material respects, with the audited financial statements from which it has been derived.

Other Reporting Required by Government Auditing Standards

In accordance with *Government Auditing Standards*, we have also issued our report dated August 14, 2019 on our consideration of State Treasury Asset Reserve of Ohio's internal control over financial reporting and on our tests of its compliance with certain provisions of laws, regulations, contracts, grant agreements, and other matters. The purpose of that report is to describe the scope of our testing of internal control over financial reporting and compliance and the results of that testing, and not to provide an opinion on the internal control over financial reporting or on compliance. That report is an integral part of an audit performed in accordance with *Government Auditing Standards* in considering State Treasury Asset Reserve of Ohio's internal control over financial reporting and compliance.

Plante & Moran, PLLC

August 14, 2019

STATE TREASURY ASSET RESERVE OF OHIO

FINANCIAL HIGHLIGHTS Data for each share outstanding throughout the year

	Year ended June 30,	
	2019	2018
Net asset value, beginning of year	\$ 1.00	\$ 1.00
Net investment income	0.0236	0.0145
Distributions from net investment income	(0.0236)	(0.0145)
Net asset value, end of year	\$ 1.00	\$ 1.00
Total Return	2.36%	1.45%
Ratio/Supplemental Information		
Expenses as a percentage of average net assets after reductions (1)	0.056%	0.062%
Expenses as a percentage of average net assets before reductions (1)	0.056%	0.062%
Net investment income as a percentage of average net assets (1)	2.37%	1.46%
Net position, end of year	\$12,554,096,084	\$10,403,623,380

(1) These percentages should not be construed as representative of the yield or expenses related to future investment in STAR Ohio.

See Accompanying Notes to Financial Statements

STATE TREASURY ASSET RESERVE OF OHIO
STATEMENT OF INVESTMENTS AS OF JUNE 30, 2019

Principal Amount/ Shares		Maturity Date	Amortized Cost (Note C)
Federal Agency Issues and U.S. Treasury Obligations - 8.7%			
\$ 613,385,000	Federal Farm Credit Bank Floating Rate Notes, 2.14% - 2.60%	8/8/19 - 3/22/21	\$ 613,292,418
10,000,000	Federal Farm Credit Bank Callable Debentures, 2.30%	6/19/20	10,000,000
134,850,000	Federal Home Loan Bank Discount Notes, 2.49% - 2.58%	8/20/19 - 2/14/20	133,758,045
196,775,000	Federal Home Loan Bank Floating Rate Notes, 2.28% - 2.49%	7/12/19 - 1/29/21	196,764,488
30,000,000	Federal Home Loan Bank Callable Debentures, 2.40% - 2.55%	4/3/20 - 6/17/20	30,000,000
35,000,000	Federal Home Loan Mortgage Corp. Callable Debentures, 2.53% - 2.54%	4/22/20 - 5/29/20	34,999,959
18,000,000	Federal National Mortgage Association Floating Rate Notes, 2.19% - 2.30%	3/13/20 - 3/25/20	18,002,607
60,000,000	U.S. Treasury Floating Rate Notes, 2.10% - 2.14%	1/31/20 - 10/31/20	59,976,852
Total Federal Agency Issues and U.S. Treasury Obligations			\$ 1,096,794,369
Commercial Paper - 37.7%			
\$ 139,700,000	American Honda Finance Corporation, 2.35% - 2.59%	7/18/19 - 9/10/19	\$ 139,383,427
375,000,000	BNP Paribas - NY, 2.21% - 2.58%	10/23/19 - 2/18/20	371,475,711
40,000,000	Canadian Imperial Holdings, 2.60%	9/26/19	39,755,433
196,764,000	Caterpillar Financial Services Corp., 2.52% - 2.71%	7/8/19 - 9/25/19	196,488,479
175,000,000	Credit Agricole Corporate and Investment Bank - NY, 2.35% - 2.80%	7/17/19 - 11/18/19	174,057,806
475,000,000	Credit Suisse AG - NY, 2.16% - 3.11%	7/5/19 - 1/23/20	472,947,675
110,000,000	Dexia Credit Local SA - NY, 2.44% - 2.84%	9/17/19 - 10/21/19	109,686,042
422,500,000	Exxon Mobile Corp, 2.29% - 2.54%	7/18/19 - 10/17/19	419,982,556
45,000,000	ING Funding, LLC, 2.27% - 2.74%	8/9/19 - 3/9/20	44,692,000
450,000,000	JPMorgan Securities, LLC, 2.20% - 3.11%	7/1/19 - 2/19/20	446,534,678
360,075,000	Mitsubishi International Corp., 2.48% - 2.59%	7/15/19 - 9/30/19	358,553,348

Principal Amount/ Shares		Maturity Date	Amortized Cost (Note C)
\$ 480,000,000	MUFG Union Bank, N.A., 2.30% - 2.88%	7/2/19 - 3/13/20	\$ 475,993,403
500,000,000	Natixis SA - NY, 2.23% - 2.90%	7/1/19 - 2/21/20	497,364,889
20,000,000	PACCAR Financial Corp., 2.55%	7/29/19	19,961,111
145,000,000	Rabobank USA Financial Corporation, 2.50% - 2.63%	9/19/19 - 11/4/19	144,866,833
420,000,000	Toyota Motor Credit Corporation, 2.32% - 2.70%	7/17/19 - 3/6/20	419,721,528
394,521,086	U.S. Bank NA, 2.40%	7/1/19	394,521,086
Total Commercial Paper			\$ 4,725,986,005
Corporate Bonds - 13.7%			
\$ 197,621,000	American Honda Finance Corporation, 1.20% - 2.87%	7/12/19 - 7/20/20	\$ 197,402,291
54,748,000	Apple Inc, 1.10% - 2.77%	8/2/19 - 5/6/20	54,692,215
3,500,000	Bank of New York Mellon Corp., 2.15%	2/24/20	3,493,630
99,531,000	Branch Bank & Trust Co., 2.10% - 3.31%	1/15/20 - 6/1/20	99,217,990
52,956,000	Berkshire Hathaway, Inc, 1.30% - 2.10%	8/14/19 - 8/15/19	52,895,118
188,777,000	Caterpillar Financial Services Corp, 2.00% - 3.09%	11/29/19 - 6/19/20	188,831,232
12,590,000	Chevron Corp, 1.96% - 2.19%	11/15/19 - 3/3/20	12,562,346
2,000,000	Cisco Systems, Inc, 1.40%	9/20/19	1,994,562
196,054,000	Citibank, N.A., 1.85% - 3.05%	9/18/19 - 6/12/20	196,118,008
132,279,000	HSBC USA, Inc., 2.35% - 3.15%	11/13/19 - 3/5/20	131,990,970
140,911,000	IBM Corporation, 1.63% - 2.81%	9/6/19 - 5/15/20	140,569,966
86,203,000	John Deere Capital Corp, 1.25% - 2.77%	7/5/19 - 7/14/20	86,223,112
32,489,000	JPMorgan Securities, LLC, 1.65% - 2.93%	9/23/19	32,443,681
33,274,000	Merck & Co., Inc., 1.85%	2/10/20	33,114,941
39,663,000	National Rural Utilities Cooperative Finance Corp, 1.50% - 2.30%	11/1/19 - 1/27/20	39,529,839
19,465,000	Oracle Corp., 2.25% - 5.00%	7/8/19 - 10/8/19	19,464,092
8,765,000	Pepsico, Inc, 1.35% - 2.87%	10/4/19	8,755,262
182,686,000	PNC Bank NA, 1.45% - 2.88%	7/2/19 - 5/19/20	182,505,747
90,609,000	Toyota Motor Credit Corp, 1.55% - 2.68%	7/18/19 - 4/17/20	90,431,748
99,744,000	US Bank, N.A., 2.00% - 3.06%	10/28/19 - 7/24/20	99,842,638

Principal Amount/ Shares		Maturity Date	Amortized Cost (Note C)
\$ 5,300,000	Wal-Mart Stores, 1.75%	10/9/19	\$ 5,291,393
48,548,000	Walt Disney Company, 0.88% - 2.63%	7/12/19 - 3/4/20	48,440,742
Total Corporate Bonds			\$ 1,725,811,523
 Municipal Bonds - 0.1%			
\$ 2,025,000	Massachusetts State Health & Educational Facilities Authority, 2.36%	10/1/34	\$ 2,025,000
8,365,000	Michigan State Finance Authority, 2.36%	9/1/50	8,365,000
Total Municipal Bonds			\$ 10,390,000
 Bank Deposits* - 4.9%			
\$ 413,960,116	Citizens Bank, 2.45%	7/1/19	\$ 413,960,116
2,574,609	Federally Insured Cash Account (FICAsm)/ STAR Plus, 2.49%	7/1/19	2,574,609
203,686,498	PNC Bank, 2.40%	7/1/19	203,686,498
Total Bank Deposits			\$ 620,221,223
 Money Market Funds* - 27.9%			
858,178,976	Dreyfus Cash Management Fund, 2.45%	7/1/19	\$ 858,284,962
858,831,581	Federated Institutional Prime Obligations Fund, 2.43%	7/1/19	859,011,440
608,083,462	Fidelity Institutional Prime Money Market Portfolio, 2.39%	7/1/19	608,293,563
95,933,856	Goldman Sachs Government Fund, 2.28%	7/1/19	95,933,856
2,145,824	Invesco Government & Agency Portfolio - Institutional, 2.25%	7/1/19	2,145,824
229,207,251	Invesco Liquid Asset Portfolio, 2.40%	7/1/19	229,282,011
850,687,266	Morgan Stanley Institutional Liquidity Prime Portfolio, 2.42%	7/1/19	851,113,270
Total Money Market Funds			\$ 3,504,064,926

Principal Amount/ Shares	Maturity Date	Amortized Cost (Note C)
Repurchase Agreements - 6.8%		
\$ 300,000,000	Bank of Nova Scotia, 2.48%, dated 6/28/19, repurchase price \$300,062,000, collateralized by various GNMMAs, FNMMAs, and FMACs, 3.00% - 4.50%, due 10/20/46 - 6/1/49, par \$368,586,383 and fair value of \$306,000,001.	7/1/19 \$ 300,000,000
350,000,000	Credit Agricole, 2.63%, dated 6/27/19, repurchase price \$350,204,556, collateralized by various GNMMAs, FNMMAs, and FMACs, 3.00% - 5.50%, due 7/1/24 - 3/20/49, par \$863,590,778 and fair value of \$357,000,000.	7/5/19 350,000,000
200,000,000	Mizuho Securities, 2.50%, dated 6/28/19, repurchase price \$200,041,667, collateralized by various GNMMAs, FNMMAs, and FMACs, 2.58% - 6.50%, due 3/1/23 - 6/1/49, par \$200,448,228 and fair value of \$204,000,000.	7/1/19 200,000,000
Total Repurchase Agreements		\$ 850,000,000
Total Investments - 99.8%		\$12,533,268,046
Assets in excess of other Liabilities - 0.2%		\$ 20,828,038
Net Position - 100% —equivalent to \$1.00 per share for 12,554,096,084 outstanding shares of the Pool		\$12,554,096,084

* Money Market Funds and Bank Deposits: The yield shown represents the rate at June 30, 2019.

See Accompanying Notes to Financial Statements

STATE TREASURY ASSET RESERVE OF OHIO

STATEMENT OF ASSETS AND LIABILITIES AS OF JUNE 30, 2019

Assets

Investments	
Federal Agency Issues and U.S. Treasury Obligations	\$ 1,096,794,369
Commercial Paper	4,725,986,005
Corporate Bonds	1,725,811,523
Municipal Bonds	10,390,000
Money Market Funds	3,504,064,926
Repurchase Agreements	850,000,000
Bank Deposits	620,221,223
Total Investments	12,533,268,046
Receivable for Fund Shares Issued	42,500
Interest Receivable	22,769,296
Prepaid Expenses/Other Assets	31,570
Total Assets	\$12,556,111,412

Liabilities

Accrued Co-administrator Fees	\$ 110,604
Accrued Investment Consultant Fees	146,199
Accrued Audit Fees	39,644
Accrued Custodian and Transfer Agent Fees	72,963
Accrued Management Fees	164,384
Other Liabilities	17,111
Dividends Payable	1,464,423
Total Liabilities	2,015,328

Net Position

	\$12,554,096,084
Capital Shares Outstanding	12,554,096,084
Participant Net Asset Value, Price Per Unit	\$ 1.00

See Accompanying Notes to Financial Statements

STATE TREASURY ASSET RESERVE OF OHIO
STATEMENTS OF OPERATIONS

	Year ended June 30,	
	2019	2018
Investment Income		
Interest Income	\$ 266,188,018	\$ 144,432,127
Expenses		
Management Fees	2,000,000	2,000,000
Investment Consultant Fees	1,686,062	1,537,318
Co-administrator Fees	1,299,321	1,224,934
Custodian, Banking, and Transfer Agent Fees	855,025	823,463
Bloomberg and Pricing Fees	187,875	203,915
S & P Analytical Fees	45,000	45,000
Audit Fees	40,000	41,879
Communication and Technology Support Services Fees	23,132	21,900
Printing and Postage Fees	7,198	12,502
Net Expenses	6,143,613	5,910,911
Net Investment Income	\$ 260,044,405	\$ 138,521,216

See Accompanying Notes to Financial Statements

**STATE TREASURY ASSET RESERVE OF OHIO
STATEMENTS OF CHANGES IN NET POSITION**

	Year ended June 30,	
	2019	2018
Change in Net Position		
Operations		
Net Investment Income	\$ 260,044,405	\$ 138,521,216
Distributions to Shareholders from		
Net Investment Income	(260,044,405)	(138,521,216)
Capital Share Transactions Net Increase (Decrease) - Note F	2,150,472,704	1,014,317,687
Increase (Decrease) in Net Position	2,150,472,704	1,014,317,687
Net Position		
Beginning of Year	10,403,623,380	9,389,305,693
End of Year	\$12,554,096,084	\$10,403,623,380

See Accompanying Notes to Financial Statements

NOTE A – SUMMARY OF ORGANIZATION AND SIGNIFICANT ACCOUNTING POLICIES

Section 135.45 of the Ohio Revised Code permits the State's political subdivisions to pool their public funds into an investment fund managed by the State Treasurer of Ohio. The State Treasury Asset Reserve of Ohio (STAR Ohio) provides units of local government with an investment option for their public funds.

Participation is offered to Ohio political subdivisions as defined in Section 135.45(F)(2)(a) of the Ohio Revised Code. The investment objectives of STAR Ohio are the preservation of capital, maintenance of liquidity, and providing current income. There can be no guarantee that this will be achieved.

The State Treasurer of Ohio, Robert Sprague, through the Treasurer's Investment Department, 30 East Broad Street, 9th Floor, Columbus, Ohio 43215-3461, serves as investment advisor and administrator to STAR Ohio. The advisor manages the investment and reinvestment of STAR Ohio's assets in accordance with STAR Ohio's investment objectives and policies, subject to the general limitations of Section 135.143 of the Ohio Revised Code. In addition, an advisor is responsible for the overall management of STAR Ohio's business affairs. For the fiscal year ended June 30, 2019, STAR Ohio compensated the advisor with a management fee of \$2,000,000 per year.

Public Funds Administrators ("PFA"), Dublin, Ohio, is the co-administrator for STAR Ohio and provides certain clerical and administrative services for STAR Ohio. Compensation to the co-administrator is based on a percentage of daily net assets with a minimum annual fee of \$800,000.

Huntington National Bank, Columbus, Ohio, serves as custodian of STAR Ohio. Compensation to the custodian is based upon the month-end net asset value and is charged monthly in arrears.

Ultimus Fund Solutions, Cincinnati, Ohio, serves as the dividend and transfer agent for STAR Ohio. Compensation to the transfer agent is based on a percentage of daily net assets with a minimum annual fee of \$400,000.

Meeder Asset Management, Inc. ("Meeder"), Dublin, Ohio, acquired substantially all of the assets of United American Capital Corporation, a former investment consultant for STAR Ohio, in November 2018. Meeder continues to serve as an investment consultant for STAR Ohio and is compensated based on a percentage of daily net assets.

STAR Ohio applies GASB Statement No. 72, Fair Value Measurement and Application. GASB Statement No. 72 provides guidance for determining a fair value measurement for reporting purposes and applying fair value to certain investments and disclosures related to all fair value measurements. Since STAR Ohio qualifies for reporting at amortized cost under GASB Statement No. 79, the applicability of GASB Statement No. 72 is limited to the disclosures referenced within GASB Statement No. 79.

The preparation of financial statements in conformity with accounting principles generally accepted in the United States of America requires management to make estimates and assumptions that affect the reported amounts of assets, liabilities, income and expenses, and disclosure of both contingent assets and liabilities. Actual results could differ from those estimates. The financial statements include certain prior-year comparative information, but not at the level of detail required for a presentation in accordance with generally accepted accounting principles. Accordingly, such information should be read in conjunction with STAR Ohio's annual report for the year ended June 30, 2018.

STAR Ohio is not registered with the Securities Exchange Commission (SEC) as an investment company, but has adopted Governmental Accounting Standards Board ("GASB"), Statement No. 79, *Accounting and Financial Reporting for Certain External Investment Pools and Pool Participants*, which establishes accounting and financial reporting standards for qualifying external investment pools that elect to measure for financial reporting purposes all of their investments at amortized cost. This Statement also establishes accounting and financial reporting standards for state and local governments that participate in a qualifying external investment pool that measures for financial reporting purposes all of its investments at amortized cost. This Statement applies to all state and local governments. This Statement amends GASB Statement No. 31, *Accounting and Financial Reporting for Certain Investments and for External Investments Pools*, and GASB Statement No. 59, *Financial Instruments Omnibus*. For the fiscal year ended June 30, 2019, there were no limitations or restrictions on any participant withdrawals due to redemption notice periods, liquidity fees, or redemptions gates. However, twenty-four hours advance notice to PFA is appreciated for deposits and withdrawals of \$25 million or more. STAR Ohio reserves the right to limit the transactions to \$100 million per day, requiring the excess amount to be transacted the following business day(s), but only to the \$100 million limit. All accounts of the participant will be combined for these purposes.

NOTE B – FAIR VALUE MEASUREMENT

STAR Ohio's investments on the statement of assets and liabilities are presented at amortized cost, in accordance with GASB Statement No. 79. Information regarding the fair value of investments held by STAR Ohio is presented below in accordance with GASB Statement No. 72.

STAR Ohio categorizes the fair value measurements within the fair value hierarchy established by Generally Accepted Accounting Principles ("GAAP"). The hierarchy is based on the valuation inputs used to measure the fair value of the asset. Level 1 inputs are quoted prices in active markets for identical assets; Level 2 inputs are significant other observable inputs; Level 3 inputs are significant unobservable inputs. Investments that are measured at fair value using the net asset value per share (or its equivalent) as a practical expedient are not classified in the fair value hierarchy below.

In instances where inputs used to measure fair value fall into different levels in the below fair value hierarchy, fair value measurements in their entirety are categorized based on the lowest level input that is significant to the valuation. STAR Ohio's assessment of the significance of particular inputs to these fair value measurements requires judgment and considers factors specific to each asset or liability.

A description of the valuation techniques applied to STAR Ohio's major categories of assets when measured at fair value follows:

Investments in registered open-end investment companies, including money market funds, are valued at the daily redemption value as reported by the underlying fund and are categorized in level 1 of the fair value hierarchy.

Short-term notes (including Federal agency issues, U.S. Government agency obligations, U.S. Treasury obligations, commercial paper, corporate obligations, and municipal bonds) - Short-term notes held in STAR Ohio are valued using fair valuation methodologies that incorporate market inputs such as benchmark yields, reported trades, broker/dealer quotes, issuer spreads, two-sided markets, benchmark securities, bids, and offers. Market indicators and industry and economic events are also monitored, which could require the need to acquire further market data. The fair value of these securities is determined primarily based on these level 2 inputs and are categorized as such.

For the period ended June 30, 2019, STAR Ohio did not hold any assets at any time in which significant unobservable inputs were used in determining fair value. Therefore, there are no level 3 securities. The following table summarizes the inputs used to value STAR Ohio's assets when measured at fair value as of June 30, 2019.

Investments by Fair Value Level	Fair Value at June 30, 2019	Level 1	Level 2	Level 3	Value at Amortized Cost
Federal Agency Issues and U.S. Treasury Obligations	\$1,096,785,369	\$ —	\$1,096,785,369	\$ —	\$1,096,794,369
Commercial Paper	4,726,935,643	—	4,726,935,643	—	4,725,986,005
Corporate Bonds	1,727,573,338	—	1,727,573,338	—	1,725,811,523
Municipal Bonds	10,390,000	—	10,390,000	—	10,390,000
Money Market Funds	3,504,770,487	3,504,770,487	—	—	3,504,064,926
Repurchase Agreements	850,000,000	—	850,000,000	—	850,000,000
Totals	\$11,916,454,837	\$3,504,770,487	\$8,411,684,350	\$ —	\$11,913,046,823

As of June 30, 2019, STAR Ohio invested in bank deposits in the amount of \$620,221,223, which are not included in the table above. Total investments on the statement of assets and liabilities totaled \$12,533,268,046.

NOTE C – INVESTMENT SECURITIES

Investment securities, other than money market funds, are valued according to the amortized cost method (which approximates fair value) whereby a security is valued at cost adjusted for the amortization of any premiums or accretion of any discounts over the period until maturity. The difference between the amortized cost and the fair value of the portfolio was approximately \$3,408,000 as of June 30, 2019. Investments in money market funds are valued at quoted market values.

Security transactions are accounted for on the trade date (the day that the order to buy or sell is executed). Interest income is determined on an accrual basis, with earned discounts (including original issue and market discount) accreted and paid premiums amortized. Any realized gains or losses on sales of securities are calculated on the specific identification basis.

STAR Ohio is permitted to invest in commercial paper, but commercial paper holdings shall not exceed 40 percent of the Total Average Portfolio (the average of the five highest daily balances for the prior 12-month period as calculated on the first day of the month). As of June 30, 2019, commercial paper holdings represented approximately 37.7 percent of the Total Average Portfolio. The Total Average Portfolio calculation is subject to change by the State Treasurer of Ohio.

All repurchase agreements are fully collateralized by United States Government or Federal Agency securities, pursuant to Section 135.143 of the Ohio Revised Code, and such collateral is in the possession of STAR Ohio's custodians on a daily basis. STAR Ohio evaluates collateral daily to ensure its market value plus accrued interest exceeds the delivery value of the repurchase agreement at maturity. At June 30, 2019, STAR Ohio invested in three separate repurchase agreements on a tri-party basis totaling \$850,000,000, which is included as part of investments at fair value on the Statement of Assets and Liabilities. The value of the related collateral that STAR Ohio received for the agreements exceeded the value of the repurchase agreements at June 30, 2019. STAR Ohio may enter into reverse repurchase (borrowing) agreements. For the fiscal year ended June 30, 2019, STAR Ohio did not enter into any reverse repurchase agreements.

STAR Ohio may purchase securities on a forward settlement basis. Payment and delivery may take place after the customary settlement period for the respective securities. The price of the underlying securities and the date when the securities will be delivered and paid for are fixed at the time the transaction is negotiated. Where applicable, the values of the securities purchased on a forward settlement basis are identified as such in the Statement of Investments. Losses may arise due to changes in the value of the underlying securities, if the counterparty does not perform under the contract's terms, or if the issuer does not issue the securities due to political, economic, or other factors. As of June 30, 2019, STAR Ohio did not transact in any purchases on a forward settlement basis.

STAR Ohio maintains a stable net asset value per share by using the amortized cost method of portfolio valuation. STAR Ohio has established procedures to stabilize the net asset value per share, as computed for the purpose of purchase and redemption, at a single value of \$1.00. The mark-to-market of the portfolio is used to monitor the appropriateness of the amortized cost method and is calculated using available market quotations.

As of June 30, 2019, STAR Ohio had the following investments and maturities:

Investment Type	Value	Investment Maturities (in Years)	
		Less than 1	1-5
Bank Deposits	\$ 620,221,223	\$ 620,221,223	
Commercial Paper	4,725,986,005	4,725,986,005	
Corporate Bonds	1,725,811,523	1,661,209,641	\$ 64,601,882
Federal Agency Issues and U.S. Treasury Obligations	1,096,794,369	774,781,494	322,012,875
Money Market Funds	3,504,064,926	3,504,064,926	
Repurchase Agreements	850,000,000	850,000,000	
	<u>\$12,522,878,046</u>	<u>\$12,136,263,289</u>	<u>\$ 386,614,757</u>

STAR Ohio also invested in Municipal Bonds as of June 30, 2019 in the amount of \$10,390,000 with final maturities ranging from October 1, 2034 through September 1, 2050.

Interest Rate Risk: Interest rate risk is the risk that the value of investments will decrease as a result of a rise in interest rates. Through its investment policy, STAR Ohio manages its exposure to fair value losses arising from increasing interest rates by limiting the final stated maturity on any investment to 397 days (762 days for floating and variable rate government obligations) and limiting the weighted average maturity WAM(R) of the portfolio to 60 days and WAM(F) of the portfolio to 90 days. WAM(R) uses the interest rate reset date as the effective maturity in calculating the WAM, whereas WAM(F) is calculated based on the stated final maturity for each security. WAM(F) is also known as weighted average life. At June 30, 2019, STAR Ohio WAM(R) and WAM(F) were 53 and 88 days, respectively. Federal Agency Issues include callable bonds, which have maturity dates ranging from April 3, 2020 to June 19, 2020 and callable dates ranging from July 3, 2019 to September 19, 2019, and floating rate notes with daily, weekly, monthly, and quarterly reset dates based on the Federal Funds Overnight Rate, the Federal Reserve Bank Prime Loan Rate, the 1- and 3-month U.S. LIBOR, and the 91-day U.S. Treasury Bill rate. There were no illiquid securities held in STAR Ohio's portfolio at June 30, 2019.

Credit Risk: STAR Ohio's investment policy requires money market funds to be rated AAAM by Standard & Poor's Corporation, and all other securities held by STAR Ohio be rated the equivalent of A-1+ or A-1. Collateralization of bank deposit investments is required to secure a rating of AAAM. As of June 30, 2019, STAR Ohio's investment in Federal Agency Issues and

the money market funds were rated AA+ and AAAm, respectively, by Standard and Poor's. All commercial paper holdings were rated A-1/P-1 and above. Corporate bonds had the following long-term ratings at issuance:

Standard & Poor's	Moody's	Corporate Bonds
AA+	Aa1	\$54,692,214
AA	Aa2	70,748,857
AA	A1	33,114,941
AA-	Aa1	99,842,638
AA-	Aa3	90,431,748
AA-	A1	21,458,654
A+	Aa3	228,561,689
A+	A1	8,755,262
A	A1	148,823,555
A	A2	681,332,742
A	A3	188,831,233
A-	Aa1	99,217,990

These corporate bonds were purchased within 13 months of maturity, with appropriate credit ratings, and therefore are in accordance with the STAR Ohio investment policy.

Concentration of Credit Risk: STAR Ohio, through its investment policy, follows the diversification guidelines for Standard & Poor's Principal Stability Fund Rating (PSFR) criteria for AAAM rated money market funds and Section 135.143 of the Ohio Revised Code. Through its investment policy, STAR Ohio further limits its investments in municipal bonds to 10 percent of the net assets. STAR Ohio limits the maximum exposure per issuer to 5 percent of net assets, except U.S. Treasury and Federal Agency Obligations, overnight bank deposits (including uninvested cash), instruments that are at least 100 percent collateralized, and investments in other rated money market funds.

As of June 30, 2019, STAR Ohio had 5 percent or more of its net assets invested in the following issuers:

Federated Funds	6.8%
Dreyfus Funds	6.8%
Morgan Stanley Funds	6.8%

Foreign Currency Risk: STAR Ohio does not have exposure to foreign exchange risk.

Custodial Credit Risk: STAR Ohio's investments are not exposed to custodial credit risk, as defined by GASB Statement No. 40. Securities in STAR Ohio are insured, registered, held by STAR Ohio, or held in a specific trust account designated for STAR Ohio. At June 30, 2019, a bank deposit of \$413,960,116 was collateralized by Federal Home Loan Bank of Boston letter

of credit. The carrying amount of cash and bank balance was zero. A second bank deposit of \$203,686,498 was collateralized by various Federal National Mortgage Association Pools as of June 30, 2019. The carrying amount of cash and bank balance was zero.

NOTE D – SECURITIES LENDING

Pursuant to Section 135.143 of the Ohio Revised Code, the Pool may lend up to 25 percent of its securities to any eligible financial institution that is a member of the Federal Reserve System or any recognized United States government securities dealer.

The Pool follows strict levels of collateralization governed by daily mark-to-market analysis, a review of the credit worthiness of securities’ dealers and banks, and strict monitoring of their respective credit limits. This is done to control exposure due to possible credit loss resulting from a reduction in the underlying collateral value or non-performance by a security dealer or bank. Either the Pool or the borrower can terminate all security loans on demand.

For the fiscal year ended June 30, 2019, STAR Ohio did not participate in security lending transactions.

NOTE E – INCOME DISTRIBUTIONS

Each business day STAR Ohio declares a distribution of its net investment income and realized capital gains, if any. Such distributions are automatically reinvested in additional shares or paid in cash to shareholders at the end of each month.

NOTE F – CAPITAL SHARES

Transactions in capital shares (all at \$1.00 per share) were as follows:

	Year ended June 30,	
	2019	2018
Shares Sold	28,233,517,065	25,245,354,273
Shares Issued for Distributions	245,342,123	129,043,164
	28,478,859,188	25,374,397,437
Shares Redeemed	(26,328,386,484)	(24,360,079,750)
Capital Shares Transactions Net Increase (Decrease)	2,150,472,704	1,014,317,687

STANDARD & POOR'S RATING OF STAR OHIO

Standard & Poor's has assigned an AAAm money market rating, its highest rating, to STAR Ohio. By obtaining a AAAm rating, STAR Ohio is considered to have a superior capacity to maintain principal (\$1.00 per share value) and limit exposure to loss. The rating is based on an analysis of STAR Ohio's management, investment guidelines, portfolio holdings and market price exposure.

SUMMARY OF INVESTMENT OBJECTIVES AND ALL PERMITTED & ELIGIBLE INVESTMENTS

The investment objectives of STAR Ohio are the preservation of capital, maintenance of liquidity, and providing current income. STAR Ohio seeks to achieve these objectives by investing only in certain high-grade short-term investment instruments, which are authorized for investment by the State of Ohio as specified in Section 135.143 of the Ohio Revised Code. Instruments in which STAR Ohio may invest include:

- (1) United States Treasury bills, notes, bonds or any other obligations or securities issued by the United States Treasury or any other obligation guaranteed as to principal and interest by the United States;
- (2) Bonds, notes, debentures, or any other obligations or securities issued by any federal government agency or instrumentality;
- (3) Written repurchase agreements with any eligible counterparties domiciled or registered in the United States subject to the guidelines in STAR Ohio's Investment Policy;
- (4) STAR Ohio may invest in reverse repurchase agreements with a maximum maturity of 30 days, provided the securities have been fully paid for and are owned by STAR Ohio at the time of sale and subject to the guidelines in STAR Ohio's Investment Policy;
- (5) The Ohio Treasurer of State also may sell any securities, listed in items (1) or (2) above, regardless of maturity or time of redemption of the securities, under the same terms and conditions for repurchase, provided that the securities have been fully paid for and are held in trust by the Ohio Treasurer of State at the time of the sale;
- (6) Securities lending agreements with any eligible financial institution that is a member of the Federal Reserve System or Federal Home Loan Bank or any recognized United States government securities dealer, under the terms of which agreement the Ohio Treasurer of State lends securities and the eligible financial institution or dealer agrees to simultaneously exchange similar securities or cash, equal value for equal value;
- (7) Various forms of commercial paper, maturing in 270 days or less, issued by any corporation that is incorporated under the laws of the United States or a state, which such notes are rated in the two highest categories by two nationally recognized rating agencies, provided that the

total amount invested in commercial paper at any time shall not exceed 40 percent of the Total Average Portfolio which is defined as the average of the five highest daily balances for the prior 12-month period as calculated on the first day of the month (the Total Average Portfolio calculation is subject to change by the State Treasurer of Ohio);

(8) Corporate Obligations of domestic corporations that, at the time of purchase must be rated in the three highest categories by two nationally recognized rating agencies provided that the total amount invested in corporate obligations at any time shall not exceed 25 percent of the Total Average Portfolio;

(9) Municipal Bonds and other direct obligations of any state or political subdivision, provided that the total amount invested in municipal bonds at any time shall not exceed 10 percent of the value of STAR Ohio;

(10) Banker's acceptances, maturing in 270 days or less, which are eligible for purchase by the Federal Reserve System, provided that the total amount invested in the banker's acceptances at any time shall not exceed 10 percent of the Total Average Portfolio, as determined and calculated by the Ohio Treasurer of State;

(11) Bank deposits, certificates of deposits, and savings in eligible institutions applying for interim monies as provided in Section 135.08 of the Ohio Revised Code; and

(12) No-load money market mutual funds rated in the highest category by one nationally recognized standard rating service or consisting exclusively of obligations described in (1), (2), or (7) of this section and repurchase agreements secured by such obligations.

SERVICE PROVIDERS

INVESTMENT ADVISOR AND ADMINISTRATOR

Robert Sprague
State Treasurer of Ohio

CO-ADMINISTRATOR

Public Funds Administrators
Dublin, Ohio

CUSTODIAN

Huntington National Bank
Columbus, Ohio

TRANSFER AGENT

Ultimus Fund Solutions
Cincinnati, Ohio

CO-INVESTMENT ADVISOR

Meeder Asset Management, Inc.
Dublin, Ohio

For more information on current yields or assistance in opening a STAR account, call toll free: 1-800-648-STAR (7827).

Additional information regarding STAR Ohio and other Treasurer of State programs may be accessed through www.OhioTreasurer.gov. The Treasurer's office also welcomes your feedback and questions; please call 1-800-228-1102.

The Office of the State Treasurer, Public Funds Administrators, Huntington National Bank, Ultimus Fund Solutions, and Meeder Asset Management, Inc. are Equal Opportunity Employers and Service Providers.



An Investment Alternative Offered by State Treasurer Robert Sprague

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