

THREE NEW ISSUES

*In the opinion of Bond Counsel, under existing law, (i) assuming continuing compliance with certain covenants and the accuracy of certain representations, interest on the Bonds is excluded from gross income for federal income tax purposes and is not an item of tax preference for purposes of the federal alternative minimum tax imposed on individuals and corporations, and (ii) interest on, and any profit made on the sale, exchange or other disposition of, the Bonds are exempt from all Ohio state and local taxation, except the estate tax, the domestic insurance company tax, the dealers in intangibles tax, the tax levied on the basis of the total equity capital of financial institutions, and the net worth base of the corporate franchise tax. Interest on the Bonds may be subject to certain federal taxes imposed only on certain corporations, including the corporate alternative minimum tax on a portion of that interest. (See **TAX MATTERS** herein.)*

OFFICIAL STATEMENT
\$105,220,000
STATE OF OHIO
GENERAL OBLIGATION REFUNDING BONDS

\$69,400,000
Higher Education
General Obligation
Refunding Bonds,
Series 2016A

\$13,715,000
Natural Resources
General Obligation
Refunding Bonds,
Series U

\$22,105,000
Third Frontier
Research and Development
General Obligation
Refunding Bonds, Series 2016B

Dated: Date of Initial Delivery

Due: As shown on inside cover

The Bonds: The Higher Education General Obligation Refunding Bonds, Series 2016A (the Higher Education Series 2016A Bonds), the Natural Resources General Obligation Refunding Bonds, Series U (the Natural Resources Series U Bonds), and the Third Frontier Research and Development General Obligation Refunding Bonds, Series 2016B (the Third Frontier Series 2016B Bonds, and all three series collectively, the Bonds) are general obligations of the State of Ohio issued by the Ohio Public Facilities Commission (the Commission) for the purpose of refunding certain bonds previously issued for the purpose of paying costs of capital facilities for state-supported and state-assisted institutions of higher education, financing or assisting in the financing of the costs of capital improvements for natural resources projects, and financing or assisting in the financing of the cost of research and development projects in support of Ohio industry, commerce and business, respectively.

Security: The Bonds are general obligations of the State of Ohio. *The full faith and credit, revenue and taxing power of the State (with exceptions stated herein) are pledged to the payment of Debt Service on the Bonds.* (See **THE BONDS – Sources of Payment.**)

Book-Entry Only: The Bonds will be initially issued only as fully-registered bonds, one for each maturity of a series, issuable under a book-entry system, registered initially in the name of The Depository Trust Company or its nominee (DTC). There will be no distribution of Bonds to the ultimate purchasers. The Bonds in certificated form as such will not be transferable or exchangeable, except for transfer to another nominee of DTC or as otherwise described in this Official Statement. (See **Appendix B.**)

Payment: (See **MATURITY SCHEDULES** on inside cover.) Principal and interest will be payable to the registered owner (DTC), principal on presentation and surrender at the office of the Bond Registrar (initially, the Treasurer of State of Ohio) and interest transmitted on each interest payment date (February 1 and August 1, beginning August 1, 2016 for the Higher Education Series 2016A Bonds; April 1 and October 1, beginning October 1, 2016 for the Natural Resources Series U Bonds; and May 1 and November 1, beginning November 1, 2016 for the Third Frontier Series 2016B Bonds) by the Bond Registrar to DTC as the registered owner as of the 15th day preceding that interest payment date.

No Prior Redemption: The Bonds are not subject to redemption prior to their stated maturities. (See **THE BONDS – No Prior Redemption.**)

This cover page includes certain information for quick reference only. It is not a summary of the bond issue. *Investors should read the entire Official Statement to obtain information as a basis for making informed investment judgments.*

Each series of the Bonds are offered when, as and if issued by the Commission and accepted by its respective Original Purchaser, subject to the opinion on certain legal matters relating to their issuance by Ice Miller LLP, Bond Counsel, and certain other conditions. Certain legal matters will be passed upon for the Commission by Squire Patton Boggs (US) LLP, which is also serving as Disclosure Counsel to the Commission.

The Bonds are expected to be available in definitive form for delivery through DTC on or about June 2, 2016.

The date of this Official Statement is May 23, 2016, and the information speaks only as of that date.

MATURITY SCHEDULES

\$69,400,000
STATE OF OHIO
Higher Education General Obligation
Refunding Bonds, Series 2016A

Due Date	Par	Interest		CUSIP^(a)
<u>Aug. 1</u>	<u>Amount</u>	<u>Rate</u>	<u>Yield</u>	<u>No.</u>
2021	\$13,765,000	5.00%	1.10%	MC5
2022	14,470,000	5.00	1.23	MD3
2023	13,365,000	5.00	1.34	ME1
2024	14,480,000	5.00	1.46	MF8
2025	13,320,000	5.00	1.59	MG6

\$13,715,000
STATE OF OHIO
Natural Resources General Obligation
Refunding Bonds, Series U

Due Date	Par	Interest		CUSIP^(a)
<u>Oct. 1</u>	<u>Amount</u>	<u>Rate</u>	<u>Yield</u>	<u>No.</u>
2022	\$4,030,000	5.00%	1.23%	LZ5
2023	6,930,000	5.00	1.35	MA9
2024	2,755,000	3.00	1.48	MB7

\$22,105,000
STATE OF OHIO
Third Frontier Research and Development
General Obligation Refunding Bonds,
Series 2016B

Due Date	Par	Interest		CUSIP^(a)
<u>Nov. 1</u>	<u>Amount</u>	<u>Rate</u>	<u>Yield</u>	<u>No.</u>
2021	\$10,830,000	4.00%	1.08%	LX0
2022	11,275,000	4.00	1.22	LY8

^(a) Copyright, American Bankers Association; see **Regarding This Official Statement**.

REGARDING THIS OFFICIAL STATEMENT

This Official Statement does not constitute an offering of any security other than the original offering of the Bonds of the State of Ohio identified on the Cover. No dealer, broker, sales or other person has been authorized by the State or the Commission to give any information or to make any representation other than that contained in this Official Statement, and if given or made such other information or representation must not be relied upon as having been given or authorized by the State or the Commission. This Official Statement does not constitute an offer to sell or the solicitation of an offer to buy, and there shall be no sale of the Bonds by any person, in any jurisdiction in which it is unlawful to make such offer, solicitation or sale.

Upon issuance, the Bonds will not be registered by the State under the Securities Act of 1933, as amended, or any state securities law, and will not be listed on any stock or other securities exchange. Neither the Securities and Exchange Commission nor any other federal, state or other governmental entity or agency, except the Commission, will have, at the request of the State or the Commission, passed upon the accuracy or adequacy of this Official Statement or approved or disapproved the Bonds for sale.

This Official Statement contains statements that the State or the Commission believes may be “forward-looking statements.” Words such as “plan,” “estimate,” “project,” “budget,” “anticipate,” “expect,” “intend,” “believe” and similar terms are intended to identify forward-looking statements. The achievement of results or other expectations expressed or implied by such forward-looking statements involve known and unknown risks, uncertainties and other factors that are difficult to predict, may be beyond the control of the State or the Commission and could cause actual results, performance or achievements to be materially different from any results, performance or achievements expressed or implied by such forward-looking statements. The State and the Commission undertake no obligation, and do not plan, to issue any updates or revisions to any of the forward-looking statements in this Official Statement.

The information and expressions of opinion in this Official Statement are subject to change without notice and neither the delivery of this Official Statement nor any sale made hereunder, under any circumstances, shall create any implication that there has been no change in the affairs of the State since its date.

The information approved and provided by the State in this Official Statement is the information relating to the particular subjects provided by the State or State agencies for the purpose of this Official Statement. Reliance should not be placed on any other information publicly provided, in any format including electronic, by any State agency for other purposes, including general information provided to the public or to portions of the public.

CUSIP (© American Bankers Association) data appearing on the Cover of this Official Statement are assigned by Standard & Poor’s, CUSIP Service Bureau, a division of The McGraw-Hill Companies, Inc., an independent company not affiliated with the State or the Commission. The State and the Commission are not responsible for the selection or uses of these CUSIP numbers, and no representation is made as to their correctness on the Bonds or Cover or as indicated above. These CUSIP numbers may also be subject to change after the issuance of the Bonds.

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SELECTED SUMMARY STATEMENT FOR THE BONDS

\$69,400,000
Higher Education
General Obligation
Refunding Bonds,
Series 2016A

\$13,715,000
Natural Resources
General Obligation
Refunding Bonds,
Series U

\$22,105,000
Third Frontier
Research and Development
General Obligation
Refunding Bonds, Series 2016B

The following summary supplements certain of the information on the Cover and summarizes selected other information in this Official Statement relating to the Bonds. It is not intended as a substitute for the more detailed discussions in this Official Statement to which reference should be made.

ISSUER. The State of Ohio (the State), acting by and through the Ohio Public Facilities Commission (the Commission). The Commission is a body politic and corporate constituting an agency and instrumentality of the State. Its members are five State executive officials holding elective office and the appointed Director of Budget and Management.

AUTHORIZATION. The Higher Education Series 2016A Bonds are authorized by Section 2n of Article VIII of the Ohio Constitution. The Natural Resources Series U Bonds are authorized by Section 2l of Article VIII of the Ohio Constitution. The Third Frontier Series 2016B Bonds are authorized by Section 2p of Article VIII of the Ohio Constitution. The Bonds are also authorized by Chapter 151 of the Ohio Revised Code.

PURPOSE OF BONDS. The Bonds are issued for the purpose of refunding certain bonds previously issued for the purpose of paying costs of capital facilities for state-supported and state-assisted institutions of higher education, financing or assisting in the financing of the costs of capital improvements for natural resources projects, and financing or assisting in the financing of the cost of research and development projects in support of Ohio industry, commerce and business, respectively.

SECURITY AND SOURCES OF PAYMENT. The Bonds are general obligations of the State. The full faith and credit, revenue and taxing power of the State are pledged to the payment of Debt Service. Among receipts not included in that pledge are highway user receipts and net state lottery proceeds. (See **THE BONDS – Sources of Payment.**)

NO PRIOR REDEMPTION. The Bonds are *not* subject to redemption prior to their stated maturities. (See **THE BONDS – No Prior Redemption.**)

FORM AND MANNER OF MAKING PAYMENTS. The Bonds will be originally issued only as fully registered bonds, one for each maturity of a series, under a book-entry only method, and registered initially in the name of The Depository Trust Company, New York, New York, or its nominee (DTC). There will be no distribution of Bonds to the ultimate purchasers. The Bonds in book-entry form will not be transferable or exchangeable, except for transfer to another nominee of DTC or as otherwise described in this Official Statement. (See **Appendix B.**)

Principal and interest will be payable to the registered owner (DTC). Principal will be payable on presentation and surrender at the office of the Bond Registrar (initially, the Treasurer of State of Ohio). Interest will be transmitted on each interest payment date (February 1 and August 1, beginning August 1, 2016 for the Higher Education Series 2016A Bonds; April 1 and October 1, beginning October 1, 2016 for the Natural Resources Series U Bonds; and May 1 and November 1, beginning November 1, 2016 for the Third Frontier Series 2016B Bonds) by the Bond Registrar to DTC as the registered owner as of the 15th day preceding that interest payment date.

TAX MATTERS. In the opinion of Bond Counsel, under existing law, (i) assuming continuing compliance with certain covenants and the accuracy of certain representations, interest on the Bonds are excluded from gross income for federal income tax purposes and is not an item of tax preference for purposes of the federal alternative minimum tax imposed on individuals and corporations, and (ii) interest on, and any profit made on the sale, exchange or other disposition of, the Bonds are exempt from all Ohio state and local taxation, except the estate tax, the domestic insurance company tax, the dealers in intangibles tax, the tax levied on the basis of the total equity capital of financial institutions, and the net worth base of the corporate franchise tax. Interest on the Bonds may be subject to certain federal taxes imposed only on certain corporations, including the corporate alternative minimum tax on a portion of that interest. (See **TAX MATTERS** herein.)

BOND REGISTRAR. Treasurer of State of Ohio, Columbus, Ohio.

BOND COUNSEL. Ice Miller LLP.

ISSUER AND DISCLOSURE COUNSEL. Squire Patton Boggs (US) LLP.

FINANCIAL ADVISER. Public Financial Management, Inc.

ORIGINAL PURCHASER. The Higher Education Series 2016A Bonds have been purchased by PNC Capital Markets LLC (the Higher Education Original Purchaser) at a price of \$86,293,841.90, the Natural Resources Series U Bonds have been purchased by Fifth Third Securities, Inc. (the Natural Resources Original Purchaser) at a price of \$16,679,548.35, and the Third Frontier Series 2016B Bonds have been purchased by a syndicate managed by Citigroup Global Markets Inc. (the Third Frontier Original Purchaser) at a price of \$25,632,177.05 each after being determined by the Commission, and named in the respective Series Resolution, as providing the lowest true interest cost for their series of Bonds in accordance with the Official Notice of Sale.

Questions regarding this Official Statement or the Bonds should be directed to Larry Scurlock or Amber Teitt, Office of Budget and Management, 30 East Broad Street, 34th Floor, Columbus, Ohio 43215-3457, telephone (614) 466-4034.

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GENERAL INTRODUCTORY STATEMENT

This Official Statement has been prepared by the Ohio Public Facilities Commission to provide certain information in connection with the original issuance and sale of:

- \$69,400,000 Higher Education General Obligation Refunding Bonds, Series 2016A;
- \$13,715,000 Natural Resources General Obligation Refunding Bonds, Series U; and
- \$22,105,000 Third Frontier Research and Development General Obligation Refunding Bonds, Series 2016B.

These three series of bonds are collectively referred to in this Official Statement as “the Bonds”.

The Bonds are secured by a pledge of the full faith and credit, revenue and taxing power of the State (with stated exceptions), on parity with other State general obligation bonds. The Higher Education Series 2016A Bonds are issued for the purpose of refunding certain bonds previously issued for the purpose of paying costs of capital facilities for state-supported and state-assisted institutions of higher education (see **HIGHER EDUCATION FACILITIES**). The Natural Resources Series U Bonds are issued for the purpose of refunding certain bonds previously issued for the purpose of financing or assisting in the financing of the costs of capital improvements for natural resources projects (see **NATUREWORKS PROGRAM**). The Third Frontier Series 2016B Bonds are issued for the purpose of refunding certain bonds previously issued to finance or assist in the financing of the cost of research and development projects in support of Ohio industry, commerce and business (see **THIRD FRONTIER RESEARCH AND DEVELOPMENT PROGRAM**).

All financial and other information presented in this Official Statement has been provided by the State from its records, except for information expressly attributed to other sources and except for certain information on the Cover and in **Appendix B**. The presentation of information, including tables of receipts from taxes and other sources, is intended to show recent historical information. It is not intended to indicate future or continuing trends in the financial or other positions of the State. No representation is made that past experience, as might be shown by that financial and other information, will necessarily continue in the future. Also see **REGARDING THIS OFFICIAL STATEMENT**.

References to provisions of Ohio law or of the Ohio Constitution are to those provisions now in effect. Those provisions may from time to time be amended, repealed or supplemented.

As used in this Official Statement:

“Beneficial Owner” means the owner of a book-entry interest in the Bonds, as defined in **Appendix B**.

“Commission” means the Ohio Public Facilities Commission.

“Cover” means the cover page and the inside cover of this Official Statement.

“Debt Service” means principal (including mandatory redemption payments, if any) of and interest and any redemption premium payable on the obligations referred to.

“Direct Participant” means a participant in the DTC system, as described in **Appendix B**.

“Fiscal Year” means a State Fiscal Year, currently the 12-month period from July 1 to June 30, and reference to a particular Fiscal Year (such as “Fiscal Year 2016”) means the Fiscal Year ending on June 30 of that year.

“Revised Code” means the Ohio Revised Code.

“State” or “Ohio” means the State of Ohio.

THE BONDS

General; Book-Entry System

The Bonds will be issued pursuant to the constitutional and statutory authorities described herein and the General Bond Resolutions and Series Resolutions adopted by the Commission. The Bonds are issuable in the form and denominations, and will be dated and mature, as described in this Official Statement. Interest will be computed on the basis of a 12-month, 360-day year.

The Treasurer of State of Ohio (the Treasurer) as Bond Registrar will keep all books and records necessary for registration, exchange and transfer of the Bonds.

The Bonds will be delivered in book-entry-only form and, when issued, registered in the name of The Depository Trust Company (DTC), New York, New York, or its nominee Cede & Co., which will act as securities depository for the Bonds. For discussion of the book-entry system and DTC and the replacement of Bonds in the event that the book-entry system is discontinued, see **Appendix B**.

Principal and interest will be payable to the registered owner (DTC). Principal will be payable on presentation and surrender at the office of the Bond Registrar (initially, the Treasurer of State of Ohio). Interest will be transmitted on each interest payment date (February 1 and August 1, beginning August 1, 2016 for the Higher Education Series 2016A Bonds; April 1 and October 1, beginning October 1, 2016 for the Natural Resources Series U Bonds; and May 1 and November 1, beginning November 1, 2016 for the Third Frontier Series 2016B Bonds) by the Bond Registrar to DTC as the registered owner as of the 15th day preceding that interest payment date.

No Prior Redemption

The Bonds are *not* subject to redemption prior to their stated maturities.

THE BONDS GENERALLY

Constitutional and Statutory Authorization

The Higher Education Series 2016A Bonds are one issue in a continuing series of State of Ohio Higher Education General Obligation Bonds under Section 2n of Article VIII of the Ohio Constitution (approved by the voters in 1999) authorizing the issuance of general obligations for the purpose of paying costs of capital facilities for state-supported and state-assisted institutions of higher education. The Natural Resources Series U Bonds are one issue in a continuing series of State of Ohio Natural Resources General Obligation Bonds under Section 2l of Article VIII of the Ohio Constitution (approved by the voters in 1993) authorizing the issuance of general obligation bonds or notes for the purpose of financing or assisting in the financing of the costs of capital improvements for state and local parks and land and water recreation facilities; soil and water restoration and protection; land management, including preservation of natural areas and reforestation; water management, including dam safety, stream and lake management, and flood control and flood damage reduction; fish and wildlife resource management; and other projects that enhance the use and enjoyment of natural resources by individuals (collectively, the natural resources projects). The Third Frontier Series 2016B Bonds are one issue in a continuing series of State of Ohio Third Frontier General Obligation Bonds under Section 2p (approved by the voters in 2005 and 2010) of Article VIII of the Ohio Constitution authorizing the issuance of general obligation bonds or notes for the purpose of financing or assisting in the financing of the cost of research and development projects in support of Ohio industry, commerce and business. See **STATE DEBT** in **Appendix A**. Chapter 151 of the Revised Code (the Act) implements the State bond issuing aspects of those constitutional provisions.

Sources of Payment

The Bonds are general obligations of the State. The full faith and credit, revenue and taxing power of the State are pledged to the timely payment of Debt Service. Excluded from that pledge are highway user receipts (fees, excises and license taxes relating to the registration, operation or use of vehicles on the public highways or to fuels used for propelling such vehicles) and net State lottery proceeds. Payment of Debt Service is not dependent on, subject to, or related in any manner to the progress on or the completion of or operation of any funded facilities or projects.

See **FISCAL MATTERS** in **Appendix A** for a discussion of State revenues, including the revenues excluded from the pledge. Some aspects of the committed State receipts are as follows:

- 50% of State income tax receipts must be returned to the political subdivision in which the receipts originate.
- The State currently does not levy any ad valorem taxes on real or tangible personal property. In any case, the Constitution has long limited the amount of the aggregate of those ad valorem property tax levies for all purposes (without an approving vote of the electors or municipal charter provisions) to 1% of a particular property's true value in money.

- Certain revenues and receipts of the State and State agencies are subject to prior pledges to State revenue and revenue-type financings.

The State has covenanted, in the Act, that the State and its applicable officers and agencies, including the General Assembly, shall, so long as the Bonds are outstanding in accordance with their terms, maintain statutory authority for and cause to be levied, collected and applied sufficient excises, taxes and revenues of the State so that the revenues will be sufficient to pay Debt Service when due, to establish and maintain any reserves and other requirements, and to pay financing costs, all as provided for in the Bond proceedings. The Act expressly provides for the repeal and reduction of particular fees, excises or taxes, and the levy of any new or increased fees, excises or taxes, and the substitution of resources, to pay Debt Service. The rights of bondholders to such revenues are on parity with the rights of holders of other general obligation bonds of the State previously issued or to be issued.

The Higher Education Capital Facilities Bond Service Fund, the Natural Resources Projects Bond Service Fund, and the Third Frontier Research and Development Projects Bond Service Fund (each a Bond Service Fund) are each created by the Act as a trust fund pledged to the payment of Debt Service on the related series of Bonds. A sufficient amount of revenues of the State are committed and, without necessity for further appropriation, shall be paid to the applicable Bond Service Fund to pay Debt Service on the related Bonds when due. The Act requires the Commission, by July 15 of each Fiscal Year, to certify or cause to be certified to the Director of Budget and Management (the Director) the total amount of moneys required during that Fiscal Year to meet in full all Debt Service on outstanding obligations, including the Bonds, and any related financing costs payable from the applicable Bond Service Fund (not from the proceeds of refunding obligations), and the Director is required to transfer from the General Revenue Fund to each Bond Service Fund, without necessity of appropriations by the General Assembly, the amount so certified for the payment of Debt Service, costs of any credit enhancement facilities, and other financing costs set forth in that certification. Under the Bond proceedings, the Commission is also to make supplemental certifications to the Director for each Debt Service payment date and as may be requested by the Director.

If on the 10th calendar day prior to their due date, moneys to the credit of a Bond Service Fund are insufficient to meet in full all payments of Debt Service on that due date, no later than the 8th day before that Debt Service payment date the Director is to transfer to that Bond Service Fund from committed State receipts sufficient revenues to pay that Debt Service when due.

Moneys to the credit of a Bond Service Fund may be invested in one or more of the following:

- Notes, bonds or other direct obligations of the United States or of any agency or instrumentality of the United States, or in no-front-end-load money market mutual funds consisting exclusively of those obligations, or in repurchase agreements (including those issued by any fiduciary) secured by those obligations, or in collective investment funds consisting exclusively of those obligations.
- Obligations of the State or any political subdivision of the State.
- Certificates of deposit of any national bank located in Ohio and any State bank subject to inspection by the State superintendent of financial institutions.
- The Treasurer's pooled investment program.

The income from those investments is to be credited to that Bond Service Fund.

STATE DEBT under **Appendix A** generally describes other bonds of the State outstanding or currently authorized that are general obligations of the State or that are other direct State obligations payable from general State sources, including appropriated lease rental payments.

Defeasance

The Bonds will be deemed to have been paid or caused to be paid (including particular Bonds being refunded) and no longer deemed outstanding if there is held in trust, by the Bond Registrar or the Bond Registrar's agent, for and irrevocably committed to that purpose either of, or a combination of, the following: moneys or direct obligations of or obligations guaranteed as to payment of principal and interest by the United States or senior debt obligations of the U.S. government-sponsored enterprises rated on the date of purchase in the highest category for short-term or long-term debt as applicable, by any two nationally recognized rating organizations, verified by an independent public accounting firm of national reputation (or equivalent expert) to be of such maturities and interest payment dates and to bear such interest or other investment income as will be, without further investment or reinvestment of either the principal or the investment earnings (likewise to be held in trust and committed, except as described below) sufficient for the payment at and to maturity of all applicable Debt Service.

Any moneys held in cash may be invested only in direct obligations of the United States and obligations guaranteed as to principal and interest by the United States, the maturities or redemption (at the holder's option) dates of which will

coincide as nearly as practicable with, but will not be later than, the times at which those moneys will be required for those payment purposes.

Any income or interest earned by those investments, to the extent not required for those payment purposes, may be transferred to the applicable Bond Service Fund or the State’s General Revenue Fund (GRF).

Non-presentment

If a Bond is not presented for payment when due or an interest payment check is uncashed, and if moneys for the purpose of paying and sufficient to pay that amount have been made available, all liability of the State to the holder for the payment will cease and be completely discharged. A separate special subaccount in the applicable Bond Service Fund is to hold that money, without liability for interest on it, for the benefit of the registered owner of that Bond, who thereafter will be restricted exclusively to that money for any claim of whatever nature with respect to that Bond. The Bond Registrar is to keep a record of the amounts with respect to the Bonds so deposited in that subaccount.

Application of Proceeds

The Bonds (collectively, the Refunding Bonds) are being issued for the purpose of refunding certain bonds previously issued for the purpose of paying costs of capital facilities for state-supported and state-assisted institutions of higher education, natural resources projects, and financing or assisting in the financing of the cost of research and development projects in support of Ohio industry, commerce and business, respectively (see **HIGHER EDUCATION FACILITIES, NATUREWORKS PROGRAM, and THIRD FRONTIER RESEARCH AND DEVELOPMENT PROGRAM**, respectively). The aggregate proceeds from the sale of the Refunding Bonds, less costs of issuance, are to be deposited into the Escrow Account in their respective Bond Service Fund, in the amount required to purchase the Defeasance Obligations referred to below and any additional amounts to be held in that Escrow Fund to cause the defeasance and discharge of the Refunded Bonds referred to below.

Refunded Bonds. The following principal amounts of outstanding bonds (the Refunded Bonds) are being refunded using the proceeds of the indicated Bonds:

Higher Education Series 2016A Bonds

<u>Series</u>	<u>Payment Date</u>	<u>Interest Rate</u>	<u>Principal Amount</u>	<u>Earliest Permitted Redemption Date</u>	<u>Redemption Price</u>
2012A	02/01/2022	4.00%	\$600,000	08/01/2021	100.00%
2012A	02/01/2022	5.00%	\$13,360,000	08/01/2021	100.00%
2012A	02/01/2023	3.00%	\$2,350,000	08/01/2021	100.00%
2012A	02/01/2023	5.00%	\$12,300,000	08/01/2021	100.00%
2012A	02/01/2024	5.00%	\$13,535,000	08/01/2021	100.00%
2014A	05/01/2025	5.00%	\$14,630,000	05/01/2022	100.00%
2015C	11/01/2025	5.00%	\$13,850,000	05/01/2025	100.00%

Natural Resources Series U Bonds

<u>Series</u>	<u>Payment Date</u>	<u>Interest Rate</u>	<u>Principal Amount</u>	<u>Earliest Permitted Redemption Date</u>	<u>Redemption Price</u>
Q	04/01/2023	5.00%	\$1,705,000	10/01/2021	100.00%
Q	04/01/2024	5.00%	\$1,775,000	10/01/2021	100.00%
S	04/01/2024	5.00%	\$2,640,000	04/01/2023	100.00%
S	04/01/2025	5.00%	\$2,770,000	04/01/2023	100.00%
T	04/01/2023	5.00%	\$2,290,000	04/01/2022	100.00%
T	04/01/2024	5.00%	\$2,405,000	04/01/2022	100.00%

Third Frontier Research Series 2016B Bonds

<u>Series</u>	<u>Payment Date</u>	<u>Interest Rate</u>	<u>Principal Amount</u>	<u>Earliest Permitted Redemption Date</u>	<u>Redemption Price</u>
2013A	05/01/2022	4.00%	\$11,085,000	05/01/2021	100.00%
2013A	05/01/2023	4.00%	\$11,530,000	05/01/2021	100.00%

On the date of delivery and payment, proceeds of each series of the Bonds will be used to purchase eligible securities (the Defeasance Obligations) to be held in trust by The Huntington National Bank (the Treasurer’s agent for the purpose) to provide for payment of principal of and interest on the Refunded Bonds to their respective Earliest

Permitted Redemption Dates shown above. The mathematical accuracy of (a) the computations of the adequacy of the maturing principal and interest earned on the Defeasance Obligations to be purchased to provide for the payment of the principal and interest due and to become due on the Refunded Bonds, and (b) the computations made supporting the conclusion by Bond Counsel that the Bonds are not "arbitrage bonds" under Section 148 of the Internal Revenue Code of 1986, as amended, will be verified by Integrity Public Finance Consulting LLC.

Upon the purchase and deposit of the Defeasance Obligations and receipt of the verification report, the Refunded Bonds will be deemed to have been paid and will no longer be considered outstanding debt of the State, and will be called for redemption on their respective Earliest Permitted Redemption Dates and at the Redemption Prices shown above.

HIGHER EDUCATION FACILITIES

Public higher education in Ohio dates from early in the nineteenth century. Ohio University was founded in 1804 and Miami University in 1809, followed by The Ohio State University in 1870, Central State University in 1887, and Kent State University and Bowling Green State University in 1910. Until 1963, the main campuses of these six universities were the only State higher education facilities.

State institutions of higher education in Ohio now consist of 14 state universities (with 24 regional branch campuses), six medical colleges, six community colleges operated by local community college districts and supported in substantial part by locally voted property taxes, nine state community colleges, eight technical colleges, and an agricultural research and development center. Each university and college is governed by its own board of trustees. The board members of State universities and colleges are appointed by the Governor.

Subsidy (operating) appropriations and capital improvements appropriations (excluding reappropriations and including debt service) made by the General Assembly from State funds for all these higher education institutions for recent biennia are as follows:

<u>Biennium</u>	<u>Subsidy</u>	<u>Biennium</u>	<u>Capital</u>
2002-03	\$4,226,398,596	2003-04	\$554,469,095
2004-05	4,905,057,891	2005-06	539,371,036
2006-07	5,017,408,626	2007-08	632,446,534
2008-09	5,482,249,552	2009-10	608,809,802
2010-11	5,042,151,371(a)	2011-12	-0-(b)
2012-13	4,536,214,491	2013-14	403,562,434
2014-15	4,710,422,792	2015-16	505,241,296
2016-17	5,054,420,222	2017-18	536,955,000(c)

- (a) Includes \$568,824,898 of funding supported by federal State Fiscal Stabilization Funds.
- (b) No new capital appropriations were provided by the General Assembly for the 2011-12 capital biennium.
- (c) Reflects capital appropriations legislation passed by the General Assembly in May 2016.

Ohio Department of Higher Education. Effective September 29, 2015, the administrative office of the Ohio Board of Regents is renamed the "Department of Higher Education".

John Carey, the Chancellor of Higher Education (formerly known as the Chancellor of the Ohio Board of Regents), is an appointee of the Governor, with the advice and consent of the Senate, and serves at the pleasure of the Governor. The Chancellor has statewide coordinating, recommendatory, advisory and directory powers with respect to state-supported and state-assisted institutions of higher education. Among the Chancellor's powers and responsibilities are the powers to maintain a state master plan for higher education; to review appropriation requests of higher education institutions and make recommendations to the General Assembly concerning the biennial higher education operating appropriations; and to approve or disapprove the establishment of technical colleges, state institutions of higher education, community colleges, new branches or academic centers of state universities, and all new degree programs within those institutions.

The Ohio Board of Regents acts as an advisory board to the Chancellor. The Ohio Board of Regents consists of nine voting members appointed by the Governor to six-year terms, with the advice and consent of the Senate. The chairs of the respective Senate and House education committees also serve as ex-officio, non-voting members.

Beginning in Fiscal Year 2013, a collaborative capital allocation process was implemented with this process designed to strategically target capital resources to the highest priorities throughout the higher education system. Beginning with the Fiscal Year 2013-14 capital appropriations act, funding is allocated to institutions based on the recommendations of a collaborative capital funding plan focused on state-wide priorities rather than a guaranteed

funding amount for each institution. This capital allocation approach allows the State to be strategic and purposeful in meeting the capital needs of its higher education system. It replaced the prior formula-based approach to determining the level of capital investment at each institution.

NATUREWORKS PROGRAM

The NatureWorks Program, created in 1994 and administered by the Ohio Department of Natural Resources (ODNR), is designed to provide capital improvements for: state and local parks, land and water recreation, soil and water restoration and protection, land management including preservation of natural areas and reforestation, water management including dam safety, stream and lake management, flood control and flood damage reduction, and fish and wildlife resource management. The Department utilizes 80% of the NatureWorks Program funding for a variety of projects administered by the Department, including Parks and Recreation, Forestry, Wildlife and Natural Areas and Preserves and approximately 20% for the NatureWorks grant program.

The NatureWorks grant program provides up to 75% reimbursement assistance for subdivisions of local government (townships, villages, cities, counties, park districts, joint recreation districts and conservancy districts) for the acquisition, development and rehabilitation of recreational areas. ODNR's Office of Real Estate administers the grant program and accepts applications on an annual basis. Grant funds are allocated to counties based on a formula that includes on a per capita basis, and are then awarded to both county and local governments within that county. Projects are evaluated and selected based on factors that measure public benefit and recreational need.

THIRD FRONTIER RESEARCH AND DEVELOPMENT PROGRAM

The Third Frontier program was announced in February 2002 and reflects the State's commitment to expanding Ohio's high-tech research capabilities and promoting innovation and company formation to create high-paying jobs. The original 10-year, \$1.6 billion State investment provided funding for the program through Fiscal Year 2012 and leveraged significant additional federal and private sector funding. In May 2010, voters approved a renewal of the Third Frontier Program authorizing an additional \$700 million in funding. Of the total State funding, \$1.2 billion will come from the issuance of Third Frontier Research and Development General Obligation Bonds.

The Third Frontier program is administered by the Third Frontier Commission created in 2003 to oversee the allocation of funds appropriated by the General Assembly to support Third Frontier programs and activities. The Third Frontier Commission consists of the Ohio Director of Development Services, the Chancellor of Higher Education, the Governor's science and technology advisor, the Chief Investment Officer of JobsOhio and six regional business representatives and one public-at-large representative appointed by the Governor with the advice and consent of the Senate. In addition, a 16-member Third Frontier Advisory Board composed of leaders from industry, academia and government advises the Third Frontier Commission on strategic planning and general management and coordination of programs.

In 2013, the Third Frontier Commission adopted the following vision and strategies:

In targeted areas of technology, Ohio will establish regional and statewide clusters of innovation that sustain its global competitive advantage in company and product formation, job creation and economic growth. Guided by the strengths of Ohio's research and industry, the Third Frontier Commission will:

- Work toward a faster return on investment (three to five years for commercialization, exit, or company growth) whenever possible.
- Leverage existing strengths.
- Align with JobsOhio when appropriate.
- Develop rigorous metrics.
- Increase flexibility.
- Move toward sustainability.

The areas of focus include: (1) advanced materials; (2) aero propulsion power management; (3) fuel cells and energy storage; (4) medical technology; (5) software applications; (6) sensing and automation technologies; (7) situational awareness and surveillance systems; and (8) solar photovoltaics.

In 2015, the Third Frontier Commission decided to focus future Third Frontier program activity on accelerating the growth of high-tech, startup and early-stage companies through a statewide network of resources that provide access to business assistance, capital and talent. The Third Frontier Commission also determined that the primary area of focus will include medical and software/information technology.

Current sources of Third Frontier funding include General Revenue Fund appropriations to the Technology Programs and Grants Fund and Third Frontier Research and Development General Obligation Bond proceeds.

Third Frontier General Obligation Bond Proceeds may provide funding for the following Third Frontier programs:

Research and Commercialization Program (RCP) - Grants to support biomedical, engineering and physical science technology-based economic development through research, development, and commercialization activities in Ohio. RCP funded projects are collaborations among Ohio for-profit firms, Ohio higher education institutions, and Ohio non-profit research organizations. Proposals must focus on technologies within the fields of biomedical treatments and devices, advanced materials, power and propulsion, information technology, instruments-controls-electronics.

Technology Commercialization Centers (TCC) - Grants to support accelerated commercialization of technologies in existing core technology focus areas. A TCC funded project must: (1) be concentrated within a primary Ohio higher education institution, medical center or other nonprofit research institution, (2) be focused on a Third Frontier targeted industry sector, (3) lend itself to commercialization in Ohio, and (4) have a deep pipeline of opportunity in the way of new technologies with clear near-term market applications..

Ohio's New Entrepreneurs Fund (ONE Fund) - Grants to provide funding for an innovative approach to retaining and attracting the best and the brightest talent to Ohio. This mentorship-driven program focuses on the professional development of young entrepreneurs with the necessary ambition to commercialize new technologies and looks to link promising new ventures in Ohio with early-stage investment capital.

Industrial Research and Development Center Program (IRDCP) - Grants involving the attraction and build-out of high-quality, large, nationally designated and highly visible corporate, nonprofit, or federal research and development centers or laboratory facilities to Ohio. An IRDCP funded center or laboratory facility must involve one or more of the following activities: 1) conducts value-added applied research at the direction of or in collaboration with Ohio industry; 2) performs industry-directed and industry-oriented problem solving; and 3) develops technologies that can be commercialized by or in partnership with an Ohio for-profit company. The IRDCP enhances and supplements Ohio organizations' proposals for such centers by providing funding that serves as cost share or matching dollars, thereby improving the competitiveness of the proposal and enhancing the potential for a center being located in Ohio.

Innovation Platform Program (IPP) - Grants providing support for operating and capital equipment needs that will benefit an entrepreneurial and commercial purpose. An IPP funded project must link the research capabilities/capacities of an already established technology platform and all its resources at an Ohio university or college or non-profit research institution to specific late-stage research, product development and innovation needs of Ohio for-profit companies. Collaborations are formed to further the near-term commercialization of specific or platform technologies with significant, defined market opportunities.

Open Innovation Incentive - Grants to incentivize and assist Ohio middle market companies with in-sourcing innovations needed to overcome technical obstacles with a next-generation or new product, service, or process. This is expected to result in quicker time to market, reduced development costs and increased competitiveness. Grant awards provide Ohio middle market companies with half of the transactional costs of utilizing the services of two Open Innovation Intermediaries.

Internship Program (IP) - Grants to businesses for research internships in the Third Frontier focus areas of advanced manufacturing, advanced materials, power and propulsion, instruments, controls and electronics, bioscience and information technology. To be eligible for an IP grant, students must be at least sophomores, attending a two or four year college or university and majoring in math, science or engineering. Awards are made up to 50% of the wages paid with a maximum of \$3,000 per student per year.

Third Frontier Cluster Development Program (TFCDP) - Grants that support the growth of Ohio's high technology industries in specific technology areas through collaborations that involve Ohio higher education institutions, non-profit research organizations, and private for-profit companies. Areas of technology focus included advanced energy, advanced materials, medical imaging, photovoltaics, and sensors. TFCDP funded projects must focus on research and development that addresses technical and cost barriers to commercialization and adapting components produced in Ohio.

Targeted Industry Attraction Grant Program - Grants to provide direct funding to eligible companies that are targets for attraction to Ohio. Areas of interest are biosciences, advanced/alternative energy, advanced materials, fuel cells and instruments-controls-electronics. Grant recipients must have identified linkages to cluster components including universities and other businesses.

Technology Asset Program - Grants to provide support for the creation of highly specialized technical equipment or unique technical facilities that Ohio for-profit companies or federal procurement agencies in Ohio have determined to be critical to realizing the near-term commercial or governmental usage of new technology-based products or services that will be developed and produced in Ohio.

Technology Validation and Start-up Fund - Grants to create greater economic growth in Ohio based on start-up companies that commercialize technologies developed by Ohio higher education institutions and not-for-profit research institutions. The fund has been designed to: 1) support protected technologies that need known validation/proof that will directly impact and enhance both their commercial viability and ability to support a start-up company, and 2) support Ohio start-up and young companies that license these validated/proved technologies.

Ohio Research Scholars Program (ORSP) - Grants to strengthen and increase the number of clusters of research excellence led by Ohio's academic institutions that support regional economic priorities. Jointly administered by the Ohio Development Services Agency and the Ohio Department of Higher Education, the ORSP targets Third Frontier areas of focus and pursues: 1) the attraction of senior research talent and related facilities and equipment, and 2) the promotion of unique collaborations with non-profit and for-profit research and commercialization partners needed to build and sustain scientifically and commercially promising lines of research. The emphasis of this program is on the recruitment of research talent from outside Ohio, though some funding supports the retention of personnel that are critical to the growth of a research cluster.

Research Incentive Program (RIP) - Performance-based grant program for basic and applied research at state universities. Administered by the Ohio Department of Higher Education, the RIP matches external research support and will target the Third Frontier areas of focus. Allocation among state universities is made annually on the basis of their success in generating external research support.

Wright Centers of Innovation Program- Grants to support large-scale world-class research and technology development platforms designed to accelerate the pace of Ohio commercialization. Wright Centers are to be collaborations among Ohio higher education institutions, non-profit research organizations, and Ohio companies in the areas of biosciences, advanced materials, power and propulsion, information technology and instruments, controls and electronics.

Wright Mega-Centers of Innovation Program - Grants which establish centers of excellence that clearly define Ohio as an international leader in research and commercialization for one or more technology platforms that will have a substantial, measurable, and sustainable impact on the State's economy. The Center must be a multi-organizational collaboration that could involve the state's universities, medical centers and other non-profit research organizations, and private sector businesses large and small in the areas of advanced materials, bioscience, power and propulsion, information technology and instruments, controls and electronics.

All awards are in the form of grants and made through competitive processes. Requests for proposals are released to solicit applications for funding. Eligible applicants can include Ohio non-profit and for-profit entities and Ohio higher education institutions. Grant proposals are reviewed by independent expert evaluators such as the National Academies of Sciences, Engineering and Medicine. The evaluator recommendations are provided to the Third Frontier Commission, which makes the award decisions.

OHIO PUBLIC FACILITIES COMMISSION

The Commission is a body politic and corporate, constituting an agency and instrumentality of the State and performing essential functions of the State. It is comprised of six members, being the incumbents in the elective offices of Governor (John R. Kasich), Attorney General (Mike DeWine), Auditor of State (Dave Yost), Secretary of State (Jon Husted), and Treasurer of State (Josh Mandel), and the Director of Budget and Management (Timothy S. Keen, appointed by the Governor with the consent of the Senate, and serving at the pleasure of the Governor). The Governor serves as the Chair, the Treasurer of State as the Treasurer and the Director of Budget and Management as the Secretary of the Commission. The current elective terms of the Governor, Attorney General, Auditor of State, Secretary of State and Treasurer of State run to January 2019. Commission members may, at Commission meetings, act through appointed designees.

TAX MATTERS

In the opinion of Bond Counsel, under existing law: (i) interest on the Bonds is excluded from gross income for federal income tax purposes under Section 103 of the Internal Revenue Code of 1986, as amended (the Code), and is not an item of tax preference for purposes of the federal alternative minimum tax imposed on individuals and corporations; and (ii) interest on, and any profit made on the sale, exchange or other disposition of, the Bonds are

exempt from all Ohio state and local taxation, except the estate tax, the domestic insurance company tax, the dealers in intangibles tax, the tax levied on the basis of the total equity capital of financial institutions, and the net worth base of the corporate franchise tax. Bond Counsel will express no opinion as to any other tax consequences regarding the Bonds.

The opinions on tax matters will be based on and will assume the accuracy of certain representations and certifications made by the Commission, the State and others, and continuing compliance with certain covenants of the Commission and the State, contained in the transcript of proceedings and that are intended to evidence and assure the foregoing, including that the Bonds are and will remain obligations the interest on which is excluded from gross income for federal income tax purposes. Bond Counsel will not independently verify the accuracy of such certifications and representations or the continuing compliance with the covenants of the Commission and the State.

The opinions of Bond Counsel are based on current legal authority and cover certain matters not directly addressed by that authority. They represent Bond Counsel's legal judgment as to the exclusion of interest on the Bonds from gross income for federal income tax purposes but are not a guaranty of that conclusion. The opinions are not binding on the Internal Revenue Service (IRS) or any court. Bond Counsel will express no opinion as to (i) the effect of future changes in the Code and the applicable regulations under the Code or (ii) the interpretation and the enforcement of the Code or those regulations by the IRS.

The Code prescribes a number of qualifications and conditions for the interest on state and local government obligations to be and to remain excluded from gross income for federal income tax purposes, some of which require future or continued compliance after issuance of the obligations. Noncompliance with these requirements may cause the loss of such status and result in the interest on the Bonds being included in gross income for federal income tax purposes retroactively to the date of issuance of the Bonds. The Commission and the State have each covenanted to take actions required of it for the interest on the Bonds to be and to remain excluded from gross income for federal income tax purposes, and not to take any actions that would adversely affect that exclusion. After the date of issuance of the Bonds, Bond Counsel will not undertake to determine (or to so inform any person) whether any actions taken or not taken, or any events occurring or not occurring, or any other matters coming to Bond Counsel's attention, may adversely affect the exclusion from gross income for federal income tax purposes of interest on the Bonds or the market value of the Bonds.

A portion of the interest on the Bonds earned by certain corporations may be subject to the federal corporate alternative minimum tax. In addition, interest on the Bonds may be subject to the federal branch profits tax imposed on certain foreign corporations doing business in the United States and to a federal tax imposed on excess net passive income of certain S corporations. Under the Code, the exclusion of interest from gross income for federal income tax purposes may have certain adverse federal income tax consequences on items of income, deduction or credit for certain taxpayers, including financial institutions, certain insurance companies, recipients of Social Security and Railroad Retirement benefits, those that are deemed to incur or continue indebtedness to acquire or carry tax-exempt obligations, and individuals otherwise eligible for the earned income credit. The applicability and extent of these and other tax consequences will depend upon the particular tax status or other tax items of the owner of the Bonds. Bond Counsel will express no opinion regarding those consequences.

Payments of interest on tax-exempt obligations, including the Bonds, are generally subject to IRS Form 1099-INT information reporting requirements. If an owner of the Bonds is subject to backup withholding under those requirements, then payments of interest will also be subject to backup withholding. Those requirements do not affect the exclusion of such interest from gross income for federal income tax purposes.

Bond Counsel's engagement with respect to the Bonds ends with the issuance of the Bonds, and, unless separately engaged, Bond Counsel is not obligated to defend the Commission, the State or the owners of the Bonds regarding the federal tax status of interest thereon in the event of an audit examination by the IRS. The IRS has a program to audit tax-exempt obligations to determine whether the interest thereon is includible in gross income for federal income tax purposes. If the IRS does audit the Bonds, under current IRS procedures, the IRS will treat the State of Ohio as the taxpayer and the beneficial owners of the Bonds will have only limited rights, if any, to obtain and participate in judicial review of such audit. Any action of the IRS, including but not limited to selection of the Bonds for audit, or the course or result of such audit, or an audit of other obligations presenting similar tax issues, may affect the market value of those Bonds.

Prospective purchasers of the Bonds upon their original issuance at prices other than the respective prices indicated on the Cover of this Official Statement, and prospective purchasers of the Bonds at other than their original issuance, should consult with their own tax advisers regarding other tax considerations such as the consequences of market discount, as to all of which Bond Counsel expresses no opinion.

Risk of Future Legislative Changes and/or Court Decisions

Legislation affecting tax-exempt obligations is regularly considered by the United States Congress and may also be considered by the State legislature. Court proceedings may also be filed the outcome of which could modify the tax treatment of obligations such as the Bonds. There can be no assurance that legislation enacted or proposed, or actions by a court, after the date of issuance of the Bonds will not have an adverse effect on the tax status of interest or other income on the Bonds or the market value or marketability of the Bonds. These adverse effects could result, for example, from changes to federal or state income tax rates, changes in the structure of federal or state income taxes (including replacement with another type of tax), or repeal (or reduction in the benefit) of the exclusion of interest on the Bonds from gross income for federal or state income tax purposes for all or certain taxpayers.

For example, recent presidential and legislative proposals would eliminate, reduce or otherwise alter the tax benefits currently provided to certain owners of state and local government bonds, including proposals that would result in additional federal income tax on taxpayers that own tax-exempt obligations if their incomes exceed certain thresholds. Investors in the Bonds should be aware that any such future legislative actions (including federal income tax reform) may retroactively change the treatment of all or a portion of the interest on the Bonds for federal income tax purposes for all or certain taxpayers. In such event, the market value of the Bonds may be adversely affected and the ability of holders to sell their Bonds in the secondary market may be reduced. The Bonds are not subject to special mandatory redemption, and the interest rates on the Bonds are not subject to adjustment in the event of any such change in the tax treatment of interest on the Bonds.

Investors should consult their own financial and tax advisers to analyze the importance of these risks.

Original Issue Premium

All of the Bonds (Premium Bonds) are being offered and sold to the public at a price in excess of their stated redemption price at maturity (the principal amount). That excess constitutes bond premium. For federal income tax purposes, bond premium is amortized over the period to maturity of a Premium Bond, based on the yield to maturity of that Premium Bond (or, in the case of a Premium Bond callable prior to its stated maturity, the amortization period and yield may be required to be determined on the basis of an earlier call date that results in the lowest yield on that Premium Bond), compounded semiannually. No portion of that bond premium is deductible by the owner of a Premium Bond. For purposes of determining the owner's gain or loss on the sale, redemption (including redemption at maturity) or other disposition of a Premium Bond, the owner's tax basis in the Premium Bond is reduced by the amount of bond premium that is amortized during the period of ownership. As a result, an owner may realize taxable gain for federal income tax purposes from the sale or other disposition of a Premium Bond for an amount equal to or less than the amount paid by the owner for that Premium Bond. A purchaser of a Premium Bond in the initial public offering at the price for that Premium Bond stated on the Cover of this Official Statement who holds that Premium Bond to maturity (or, in the case of a callable Premium Bond, to its earlier call date that results in the lowest yield on that Premium Bond) will realize no gain or loss upon the retirement of that Premium Bond.

Owners of Premium Bonds should consult with their own tax advisers as to the determination for federal income tax purposes of the amount of bond premium properly accruable or amortizable in any period with respect to the Premium Bonds and as to other federal tax consequences and the treatment of bond premium for purposes of state and local taxes on, or based on, income.

LITIGATION

There is no litigation pending contesting the validity of the Bonds or the proceedings for their authorization, issuance, sale, execution and delivery. A no-litigation certificate to that effect will be delivered to the Original Purchasers at the time of original delivery of the Bonds.

The State is a party to various legal proceedings seeking damages or injunctive relief and generally incidental to its operations, but unrelated to the Bonds or the security for the Bonds. The ultimate disposition of these proceedings is not presently determinable, but in the opinion of the Ohio Attorney General will not have a material adverse effect on the Bonds or the security for the Bonds.

LEGAL OPINIONS

Legal matters incident to the issuance of the Bonds and with regard to the tax-exempt status of the interest on the Bonds (see **TAX MATTERS**) are subject to the legal opinions of Ice Miller LLP, Bond Counsel. The signed legal opinions dated as of, and premised on the transcript of proceedings examined and law in effect on, the date of original delivery, will be delivered to the Original Purchasers at the time of that original delivery. The text of the opinions for the Bonds will be printed on or appended to the Bonds.

The proposed text of Bond Counsel's legal opinions is set forth as **Exhibits A-1 through A-3**. The legal opinions to be delivered may vary from that text if necessary to reflect facts and law on the date of delivery. The opinions will speak only as of their date, and subsequent distribution by recirculation of the Official Statement or otherwise should not create any implication that Bond Counsel has reviewed or expressed any opinion concerning any of the matters referred to in the opinions subsequent to their date.

Certain legal matters will be passed upon for the Commission by its counsel Squire Patton Boggs (US) LLP, which is also serving as Disclosure Counsel to the Commission.

RATINGS

In response to the Commission's application, the Bonds have been rated AA+ (stable outlook) by Fitch Ratings (Fitch), Aa1 (stable outlook) by Moody's Investors Service (Moody's), and AA+ (stable outlook) by Standard & Poor's Ratings Services (S&P).

The ratings and ratings outlooks in effect from time to time reflect only the views of the particular rating organization. The explanation of its views of the meaning and significance of its rating or outlook may be obtained from the respective rating agency. The Commission furnished to each rating agency certain information and materials, some of which may not be included in this Official Statement, relating to the Bonds and other obligations, the State and the Commission. Generally, rating agencies base their ratings on that information and materials, and on their own investigations, studies and assumptions.

There can be no assurance that the ratings or outlooks assigned will continue for any given time, or that a rating will not be lowered or withdrawn by a rating agency if in its judgment circumstances so warrant. Any downward change in or withdrawal of a rating, or change in rating outlook or other actions of a rating agency, may have an adverse effect on the marketability and market price of the Bonds.

FINANCIAL ADVISER

Public Financial Management, Inc. is serving as the financial adviser to the Commission in connection with the issuance and sale of the Bonds. The financial adviser is not obligated to undertake, and has not undertaken to make, an independent verification or to assume responsibility for the accuracy, completeness, or fairness of the information contained in the Official Statement. Public Financial Management, Inc. is an independent advisory firm and is not engaged in the business of underwriting, trading or distributing municipal securities or other public securities.

TRANSCRIPT AND CLOSING CERTIFICATES

A complete transcript of proceedings and no-litigation certificate (as described above) for the Bonds of each series will be delivered by the Commission to the Original Purchaser. At that time, the Director of Budget and Management will furnish to the Original Purchaser of each series a certificate relating to the accuracy and completeness of this Official Statement (including matters set forth in or contemplated by it), and to its being a "final official statement" in the Commission's judgment for purposes of Securities and Exchange Commission (SEC) Rule 15c2-12(b)(3).

CONTINUING DISCLOSURE AGREEMENTS

The Commission has agreed, for the benefit of the holders and Beneficial Owners of each series of the Bonds, in accordance with SEC Rule 15c2-12 (the Rule), to provide or cause to be provided such financial information and operating data (Annual Information), audited financial statements and notices, in such manner, as may be required for purposes of paragraph (b)(5)(i) of the Rule (a Continuing Disclosure Agreement).

The Commission has complied in all material respects with its prior continuing disclosure agreements under the Rule during the last five years.

It will provide to the Municipal Securities Rulemaking Board (the MSRB) through its Electronic Municipal Market Access (EMMA) system:

- Annual Information for each State Fiscal Year (beginning with Fiscal Year 2016) not later than the 90th day following the end of the Fiscal Year (or, if that is not a State business day, the next State business day), consisting of annual financial information and operating data of the type included in **Appendix A** of this Official Statement under the captions **FISCAL MATTERS, STATE DEBT, STATE EMPLOYEES AND COLLECTIVE BARGAINING AGREEMENTS, RETIREMENT SYSTEMS, and TAX LEVELS AND TAX BASES**. The Commission expects that Annual Information will be provided directly by the State

(specifically, by OBM) and may be provided in part by cross-reference to other documents, such as the State's Comprehensive Annual Financial Report, and subsequent final official statements.

- When and if available, audited general purpose financial statements of the State for each Fiscal Year. The Commission expects that those financial statements will be prepared, that they will be available separately from the Annual Information, and that the accounting principles to be applied in their preparation will, except as may otherwise then be stated, be as described under and by reference in **Appendix A** under **FISCAL MATTERS - Accounts and Controls; Financial Reports**.

It will provide to the MSRB through the EMMA system, in a timely manner, notice of:

- The occurrence of any of the following events with respect to the Bonds, within the meaning of the Rule, within 10 business days of the occurrence of the event:
 - principal and interest payment delinquencies
 - non-payment related defaults, if material
 - unscheduled draws on any debt service reserves or on credit enhancements (Credit Enhancement Facility) reflecting financial difficulties
 - substitution of credit or liquidity providers (Credit Enhancement Facility providers), or their failure to perform
 - adverse tax opinions, the issuance by the IRS of proposed or final determinations of taxability, Notice of Proposed Issue (IRS Form 5701-TEB) or other material notices or determinations with respect to the tax status of the Bonds, or other material events affecting the tax-exempt status of the Bonds
 - modifications to rights of registered owners or Beneficial Owners, if material
 - Bond calls, if material, and tender offers
 - defeasances
 - release, substitution, or sale of property securing repayment of the Bonds, if material
 - bankruptcy, insolvency, receivership or similar event of the obligated person
 - consummation of a merger, consolidation or acquisition involving an obligated person or the sale of all or substantially all of the assets of the obligated person, other than in the ordinary course of business, or the entry into a definitive agreement to undertake such an action or the termination of a definitive agreement relating to any such actions, other than pursuant to its terms, if material
 - appointment of a successor or additional trustee or the change of name of a trustee, if material
 - rating changes
- The failure to provide the Annual Information within the specified time.
- Any change in the accounting principles applied in the preparation of the annual financial statements or in the Fiscal Year, any failure of the General Assembly to appropriate moneys for the purpose of paying costs to be incurred by the State in performing the Continuing Disclosure Agreement for the applicable fiscal period (biennium), and termination of the Continuing Disclosure Agreement.

There are no debt service reserves, or credit enhancements or credit or liquidity providers, for the Bonds, or any property (except the applicable Bond Service Fund) securing their repayment. There is no trustee for the Bonds.

The Commission reserves the right to amend each Continuing Disclosure Agreement, and to obtain the waiver of noncompliance with any provision of such Continuing Disclosure Agreement, as may be necessary or appropriate:

- To achieve its compliance with any applicable federal securities law or rule.
- To cure any ambiguity, inconsistency or formal defect or omission.
- To address any change in circumstances arising from a change in legal requirements, change in law, or change in the identity, nature, or status of the Commission.

Any such amendment or waiver will not be effective unless that Continuing Disclosure Agreement (as amended or taking into account the waiver) would have complied with the requirements of the Rule at the time of the primary offering of the Bonds, after taking into account any applicable amendments to or official interpretations of the Rule, as well as any change in circumstances, and until the Commission shall have received either:

- A written opinion of bond, disclosure or other qualified independent special counsel selected by the Commission that the amendment or waiver would not materially impair the interest of holders or Beneficial Owners of the Bonds; or

- The written consent to the amendment, or waiver, by the holders of at least a majority of the aggregate outstanding principal amount of the Bonds.

Each Continuing Disclosure Agreement, by provisions in the bond proceedings, will be solely for the benefit of the holders and Beneficial Owners of the Bonds of that series including holders of book-entry interests in them. The right to enforce the provisions of a Continuing Disclosure Agreement may be limited to a right of the holders or Beneficial Owners to enforce to the extent permitted by law (by mandamus, or other suit, action or proceedings at law or in equity) the obligations and duties under it.

In order to provide certain continuing disclosure with respect to the Bonds in accordance with the Rule, the State has entered into a Disclosure Dissemination Agent Agreement (Disclosure Dissemination Agreement) for the benefit of the holders of the Bonds with Digital Assurance Certification, L.L.C. (DAC), under which the State has designated DAC as Disclosure Dissemination Agent (Disclosure Dissemination Agent).

The Disclosure Dissemination Agent has only the duties specified in the Disclosure Dissemination Agreement. The Agent's obligation to deliver the information at the times and with the contents described in the Agreement is limited to the extent the State has provided that information to the Agent as required by that Agreement. The Agent has no duty with respect to the content of any disclosures or notice made pursuant to the terms of the Agreement or duty or obligation to review or verify any information in the Annual Report, Audited Financial Statements, notice of Notice Event or Voluntary Report (each as defined in the Agreement), or any other information, disclosure or notices provided to it by the State, and the Agent shall not be or be deemed to be acting in any fiduciary capacity for the State, the holders of the Bonds or any other party. The Agent has no responsibility for any failure to report to the Agent a Notice Event or a duty to determine the materiality thereof, or to determine or liability for failing to determine whether the State has complied with the Agreement, and the Agent may conclusively rely upon certification of the State at all times.

The performance by the State, as the only obligated person with respect to the Bonds, of each Continuing Disclosure Agreement will be subject to the biennial appropriation by the General Assembly of moneys for that purpose.

Each Continuing Disclosure Agreement will remain in effect only for such period that the Bonds of that series are outstanding in accordance with their terms and the State remains an obligated person with respect to those Bonds within the meaning of the Rule.

ELIGIBILITY FOR INVESTMENT AND AS PUBLIC MONEYS SECURITY

To the extent that the matter as to a particular investor is governed by Ohio law, and subject to any applicable limitations under other provisions of Ohio law, the Bonds are lawful investments for banks, savings and loan associations, credit union share guaranty corporations, trust companies, trustees, fiduciaries, insurance companies (including domestic for life and domestic not for life), trustees or other officers having charge of sinking and bond retirement or other funds of the State and its political subdivisions and taxing districts, the Commissioners of the Sinking Fund, the Administrator of Workers' Compensation, and State retirement systems (Teachers, Public Employees, Public School Employees, and Police and Fire), notwithstanding any other provisions of the Revised Code or rules adopted pursuant to those provisions by any State agency with respect to investments by them.

The Act also provides that the Bonds are acceptable under Ohio law as security for the repayment of the deposit of public moneys.

Beneficial Owners of the Bonds should make their own determination as to such matters as the legality of investment in or the pledgeability of book-entry interests.

CONCLUDING STATEMENT

All quotations in this Official Statement from, and summaries and explanations of, the Ohio Constitution, the Revised Code, and the bond proceedings do not purport to be complete. Reference is made to the pertinent provisions of the Constitution, Revised Code and those documents for all complete statements of their provisions. Copies of the bond proceedings are available upon request to the Office of Budget and Management, 30 East Broad Street, 34th Floor, Columbus, Ohio 43215-3457 (telephone 614-466-4034).

To the extent that any statements in this Official Statement involve matters of opinion or estimates (whether or not expressly stated to be such) those statements are made as such and not as representations of fact or certainty. No representation is made that any of those statements will be realized. Information in this Official Statement has been derived by the Commission from official and other sources and is believed by the Commission to be accurate and reliable, but information other than that obtained from State official records has not been independently confirmed or verified by the State or Commission and its accuracy is not guaranteed.

This Official Statement is not to be construed as a contract or agreement between the State or the Commission and the original purchaser or subsequent holders or Beneficial Owners of any of the Bonds.

This Official Statement has been prepared, approved and delivered by the Commission, and signed for and on its behalf and in his official capacity by the official indicated below.

OHIO PUBLIC FACILITIES COMMISSION

By: Timothy S. Keen
Timothy S. Keen
Director of Budget and Management,
and Secretary of the Commission

INFORMATION CONCERNING THE STATE OF OHIO

The following discusses certain matters relating to general State finances and debt, and the State's economy and employment, population, agriculture, resources, tax bases and related subjects. This information is from the State's official records, except for information expressly attributed to other sources, and summarizes and describes current and recent historical information. It is not intended to indicate future or continuing trends in the financial or other positions of the State. No representation is made that past experience, as might be shown by this financial and other information, will necessarily continue in the future.

FISCAL MATTERS

General

Consistent with the constitutional provision that no appropriation may be made for a period longer than two years, the State operates on the basis of a fiscal biennium for its appropriations and expenditures. Under current law that biennium for operating purposes runs from July 1 in an odd-numbered year to June 30 in the next odd-numbered year (e.g., the current fiscal biennium began July 1, 2015 and ends June 30, 2017). Within a fiscal biennium, the State operates on the basis of a July 1 to June 30 Fiscal Year. The biennium for general capital appropriations purposes runs from July 1 in an even-numbered year to June 30 in the next even-numbered year. Consistent with the fiscal biennium for operating purposes, the Governor is generally required to submit the Executive Budget to the General Assembly in February of each odd-numbered year. Appropriations legislation reflecting that Executive Budget is then introduced for committee hearings and review first in the House and then in the Senate, with that appropriations legislation as approved by the General Assembly then presented to the Governor for his approval (with possible line item vetoes). See **FISCAL MATTERS – Recent and Current Finances – Current Biennium** for discussion of the 2016-17 biennial appropriations.

Authority for appropriating State moneys subject to appropriation rests in the bicameral General Assembly, which consists of a 99-member House of Representatives (elected to two-year terms) and a 33-member Senate (elected to overlapping four-year terms). Members of both houses are subject to term limits, with a maximum of eight consecutive years in either. The Governor has veto power, including the power to make line-item vetoes in bills making appropriations. Vetoes may be overridden by a three-fifths vote of each house.

The Constitution requires the General Assembly to “provide for raising revenue, sufficient to defray the expenses of the state, for each year, and also a sufficient sum to pay the principal and interest as they become due on the state debt.” The State is effectively precluded by law from ending a Fiscal Year or a biennium in a “deficit” position. State borrowing to meet casual deficits or failures in revenues or to meet expenses not otherwise provided for is limited by the Constitution to \$750,000.

Most State operations are financed through the General Revenue Fund (GRF). Personal income and sales and use taxes are the major sources of GRF tax revenue. The last complete fiscal year ended June 30, 2015 with a GRF fund balance (after year-end transfers) of \$550.4 million. The State has a “rainy day” fund (the Budget Stabilization Fund (BSF)) which for Fiscal Year 2016 and until used is intended to carry a balance of up to 8.5% of the GRF revenue for the preceding Fiscal Year (this amount was 5% for Fiscal Year 2015 and prior years). The current BSF balance is \$2.005 billion, which equals 6.4% of Fiscal Year 2015 GRF revenue.

The Revised Code provides that if the Governor ascertains that the available revenue receipts and balances for the GRF or other funds for the then current Fiscal Year will in all probability be less than the appropriations for that Fiscal Year, the Governor shall issue such orders to State agencies as will prevent their expenditures and incurred obligations from exceeding those revenue receipts and balances. As discussed under **Recent and Current Finances**, the Governor implemented this directive in the 2008-09 biennium as also had been done several times in prior fiscal biennia.

Listed in the tables below under **Recent Receipts and Disbursements** are the major categories of State revenue sources, including taxes and excises, and the amounts received from those categories. There is no present constitutional limit on the rates of those State levied taxes and excises (except for taxes on intangible property which the State does not currently levy).

At present the State itself does not levy ad valorem taxes on real or tangible personal property. Ad valorem taxes on tangible personal property of public utilities and on real property are levied by political subdivisions

and local taxing districts, and State law does not currently allow the imposition of a general ad valorem tax on tangible personal property. The Constitution has since 1934 limited the amount of the aggregate levy of ad valorem property taxes on particular property, without a vote of the electors or municipal charter provision, to 1% of true value in money, and statutes limit the amount of that aggregate levy without a vote or charter provision to 10 mills per \$1 of assessed valuation -- commonly referred to in the context of Ohio local government finance as the “ten-mill limitation.” See **TAX LEVELS AND TAX BASES** for a discussion of the phase-out of local tangible personal property taxes in 2006 through 2009.

The Constitution directs or restricts the use of certain revenues. Highway fees and excises, including gasoline taxes, are limited in use to highway-related purposes. Not less than 50% of the receipts from State income taxes must be returned to the originating political subdivisions and school districts. State net lottery profits are allocated to elementary, secondary, vocational and special education program purposes, including application to debt service on obligations issued to finance capital facilities for a system of common schools.

Constitutional amendments relating to taxation, revenues, expenditures, debt or other subjects may be proposed by action of three-fifths of the members elected to each house of the General Assembly or by initiative petition signed by electors numbering at least 10% of the total number of votes last cast for the office of Governor. Adoption of a proposed amendment requires approval by a majority of electors voting on it at a statewide election. The Ohio Constitution expressly provides that the General Assembly has no power to pass laws impairing the obligation of contracts.

Accounts and Controls; Financial Reports

With each office performing specific functions relating to State expenditures, the Office of Budget and Management (OBM) and the Treasurer of State account for and report on the State’s fiscal affairs.

OBM maintains records of the appropriations made by the General Assembly, and its Director, appointed by the Governor, certifies the availability of unencumbered appropriations as a condition of contract validity. OBM fiscal functions include the development and oversight of operating and capital budgets as well as the review, processing, and reporting of financial transactions for most State departments and agencies (excluding, among others, higher education institutions). The OBM Director’s certification is required for all expenditure vouchers before OBM may issue State warrants. Upon certification, OBM updates its accounting records to reflect the level of vouchered expenditures. The Treasurer of State maintains the cash and investments that comprise the State treasury and invests State funds. The Treasurer redeems the warrants issued by OBM when presented for payment by financial institutions and monitors the amounts and the timing of payments to determine the State’s cash flow position for investment purposes.

State financial reporting practices have been and are in accordance with generally accepted accounting principles (GAAP basis). Each Comprehensive Annual Financial Report (CAFR) includes the State’s Basic Financial Statements (BFS) for that Fiscal Year as examined by the Auditor of State. The most recent CAFRs are accessible via OBM’s web page at <http://obm.ohio.gov/stateaccounting/financialreporting/default.aspx>, and copies may be obtained by contacting OBM, 30 E. Broad Street, 34th Floor, Columbus, Ohio 43215, phone (614) 466-4034. The Fiscal Year 2014 CAFR received the Government Finance Officers Association certificate of achievement for excellence in financial reporting.

The BFS are presented in accordance with a fund classification system prescribed by the Governmental Accounting Standards Board. The GAAP basis financial statement presentation is comprehensive in scope and includes organizations and activities defined within Ohio’s reporting entity that are not subject to the State’s appropriation process. The “General Fund” as reported in the BFS includes more than just the GRF; it also encompasses the Budget Stabilization Fund and those reimbursement-supported funds that account for activities administered by State agencies and departments and for which special revenue or proprietary fund classifications are considered inappropriate.

In accordance with State law, financial statements and analyses (with supporting schedules) of State agencies’ transactions, based on official records maintained by OBM, are incorporated into the Governor’s Executive Budget. That budget, along with other information, is the subject of extended hearings and reviews in the General Assembly during the biennial appropriation process. See **FISCAL MATTERS – Recent and Current Finances – Current Biennium** regarding the 2016-17 biennial appropriations.

Recent Receipts and Disbursements

The following summary statements, prepared by OBM based on its accounting records, include (i) governmental and proprietary appropriated funds, cash receipts and cash disbursements, and (ii) GRF cash basis activity. The governmental and proprietary appropriated funds encompass the General Fund (which includes the GRF and BSF), as well as special revenue, debt service, capital projects, and enterprise fund types.

SUMMARY STATEMENT GOVERNMENTAL AND PROPRIETARY APPROPRIATED FUNDS (\$ in Millions)

Cash Receipts

SOURCE OF RECEIPTS

Taxes:	Fiscal Year				
	2011	2012	2013	2014	2015
Personal Income(a)	\$8,820.1	\$9,029.7	\$9,869.8	\$8,425.1	\$8,883.2
Sales and Use(b)	7,769.0	8,293.6	8,851.5	9,549.9	10,417.8
Corporate Franchise(c)	237.2	117.4	262.2	(11.2)	2.6
Financial Institutions Tax(c)	0.0	0.0	0.0	197.8	182.1
Commercial Activity Tax	1,451.6	1,655.9	1,594.9	1,684.7	1,752.6
Gasoline.....	1,757.2	1,684.2	1,725.0	1,825.5	1,800.6
Public Utilities and Kilowatt Hour	728.0	712.0	702.0	742.5	809.8
Cigarette	855.6	843.2	827.4	814.0	808.2
Foreign Insurance	273.0	283.9	292.5	308.0	287.3
Highway Use	30.1	32.2	36.1	16.7	35.2
Estate(d)	72.1	66.5	105.2	39.4	3.1
Alcoholic Beverages.....	56.4	58.7	57.6	56.6	57.7
Liquor Gallonage.....	37.6	39.4	40.7	41.8	43.4
Domestic Insurance Franchise	194.3	194.1	211.6	202.3	257.2
Other	<u>84.1</u>	<u>63.9</u>	<u>84.1</u>	<u>44.3</u>	<u>60.0</u>
Total Taxes	22,366.3	23,074.8	24,660.6	23,937.5	25,400.7
Licenses, Permits and Fees	3,102.0	3,186.9	3,284.4	3,225.5	3,072.0
Sales, Services and Charges	1,958.9	1,968.0	1,682.7	1,262.9	1,392.1
Federal Government (including ARRA).....	22,373.7	19,975.7	19,685.3	21,047.1	22,692.1
Other(e)	3,783.1	3,692.0	4,626.4	4,179.6	4,702.8
Proceeds from Sale of Bonds and Notes	<u>1,345.1</u>	<u>1,406.6</u>	<u>732.2</u>	<u>1,468.6</u>	<u>1,103.8</u>
Total Cash Receipts	\$54,929.1	\$53,304.1	\$54,671.6	\$55,121.1	\$58,363.4

- (a) The personal income tax rate was reduced by 8.5% in calendar year 2013 and 1.5% in calendar year 2014, and a deduction was allowed commencing in calendar year 2013 for small businesses of 50% (temporarily increased up to 75% for tax year 2014) of annual business net income up to \$250,000 (see **FISCAL MATTERS – Recent and Current Finances – Recent Biennia - 2014-15**).
- (b) Beginning September 1, 2013, the sales and use tax rate was increased one-quarter percent to 5.75% (see **FISCAL MATTERS – Recent and Current Finances – Recent Biennia - 2014-15**).
- (c) Beginning in calendar year 2006, except for financial institutions, the State corporate franchise tax rate was phased out at a rate of 20% per year over five years. Beginning in tax year 2014, the financial institutions component was replaced with the new financial institutions tax; 2014 reflects refunds.
- (d) Eliminated effective January 1, 2013.
- (e) Largest components consist of various reimbursements, loan repayments, unclaimed funds, and investment income.

Cash Disbursements

FUND TYPE	Fiscal Year(f)				
	2011	2012	2013	2014	2015
General Fund:					
General Revenue Fund	\$26,247.6	\$26,394.8	\$27,439.3	\$28,901.8	\$30,831.6
General Services Fund.....	6,106.4	5,090.2	4,557.1	4,591.6	4,758.1
Special Revenue Fund(g)	20,225.5	18,708.6	18,251.0	19,204.9	20,644.3
Capital Projects Fund(h).....	440.0	346.9	273.5	318.0	412.0
Debt Service Fund(i)	633.3	557.0	996.3	1,064.8	1,116.7
Enterprise Fund(j).....	<u>1,395.8</u>	<u>1,341.1</u>	<u>1,115.9</u>	<u>699.7</u>	<u>825.0</u>
Total Cash Disbursements	\$55,048.6	\$52,438.6	\$52,633.1	\$54,780.9	\$58,587.8

- (f) In all Fiscal Years reflects the reclassification of 161 individual funds from special revenue funds into the general services fund to be consistent with financial reporting changes made in GASB Statement No. 54 and effective for the Fiscal Year 2011 CAFR.
- (g) Includes local government support disbursements.
- (h) Includes amounts disbursed from proceeds of general obligation bonds and certain other State obligations.
- (i) Includes the several bond retirement funds for bonds secured by a pledge of taxes and excises.
- (j) Fiscal Year 2014 reduction reflects the transfer of the State's spirituous liquor system in February 2013 to JobsOhio (see **FISCAL MATTERS – Recent and Current Finances – Recent Biennia - 2012-13**).

**SUMMARY STATEMENT
GENERAL REVENUE FUND CASH BASIS ACTIVITY
(\$ in Millions)**

	Fiscal Year				
	2011	2012	2013	2014	2015
Beginning Cash Balance	\$510.3	\$844.5	\$973.4	\$2,639.2	\$1,700.1
Cash Receipts:					
Taxes:					
Personal Income(a)	8,120.3	8,432.9	9,507.8	8,064.9	8,506.7
Sales and Use(b)	7,578.2	8,087.0	8,444.9	9,165.8	9,960.2
Corporate Franchise(c).....	236.6	117.1	261.9	(11.4)	2.5
Financial Institutions Tax(c).....	0.0	0.0	0.0	197.8	182.1
Commercial Activity Tax(d).....	0.0	417.1	790.0	794.2	854.0
Public Utilities and Kilowatt Hour	278.7	468.9	461.7	488.4	464.5
Cigarette	855.6	843.2	827.4	814.0	808.2
Foreign Insurance	256.3	266.5	274.6	286.5	266.6
Other.....	<u>380.5</u>	<u>372.5</u>	<u>447.4</u>	<u>334.4</u>	<u>361.0</u>
Total Taxes	17,706.1	19,005.2	21,015.7	20,134.7	21,405.8
Federal Government (including ARRA).....	8,429.0	7,363.0	7,525.8	8,575.6	9,301.3
Licenses, Permits and Fees	59.0	65.3	70.2	57.3	57.5
Investment Income	7.1	5.4	10.5	17.3	23.1
Other(e).....	<u>169.8</u>	<u>164.3</u>	<u>534.5</u>	<u>42.2</u>	<u>43.7</u>
Total Cash Receipts.....	26,371.1	26,603.2	29,156.7	28,827.1	30,831.4
Cash Disbursements:					
Primary, Secondary and Other Education(f)	6,740.0	6,457.8	6,574.2	6,813.2	7,299.5
Higher Education.....	2,411.0	2,102.7	2,044.3	2,085.0	2,139.6
Public Assistance and Medicaid(g).....	11,425.8	12,465.7	0.0	0.0	0.0
Medicaid(g).....	0.0	0.0	12,581.7	13,570.5	14,863.2
Health and Human Services	1,099.1	964.8	1,151.8	1,235.8	1,249.8
Justice and Public Protection.....	1,940.2	1,863.0	1,804.6	1,837.0	1,850.3
Environmental Protection and Natural Resources	72.4	70.1	64.8	63.1	62.6
Transportation(h).....	13.4	10.3	9.0	12.5	9.4
General Government	275.5	273.0	222.0	219.6	225.8
Community and Economic Development.....	103.2	90.3	52.2	53.4	42.4
Tax Relief and Other(i)	1,691.0	1,728.5	1,746.5	1,785.2	1,801.5
Capital Outlay.....	0.2	0.1	0.1	0.0	0.0
Debt Service(j).....	<u>475.9</u>	<u>368.5</u>	<u>1,188.2</u>	<u>1,226.4</u>	<u>1,287.7</u>
Total Cash Disbursements.....	26,247.5	26,394.8	27,439.3	28,901.8	30,831.6
Cash Transfers:					
Transfers-in(k)	1,392.1	582.3	402.0	405.7	641.6
Transfers-out(l)	<u>(1,181.5)</u>	<u>(661.8)</u>	<u>(453.6)</u>	<u>(1,270.2)</u>	<u>(629.9)</u>
Ending Cash Balance	\$844.5	\$973.4	\$2,639.2	\$1,700.1	\$1,711.7

- (a) The personal income tax rate was reduced by 8.5% in calendar year 2013 and 1.5% in calendar year 2014, and a deduction was allowed commencing in calendar year 2013 for small businesses of 50% (temporarily increased up to 75% for tax year 2014) of annual business net income up to \$250,000 (see **FISCAL MATTERS – Recent and Current Finances – Recent Biennia - 2014-15**).
- (b) Beginning September 1, 2013, the sales and use tax rate was increased one-quarter percent to 5.75% (see **FISCAL MATTERS – Recent and Current Finances – Recent Biennia - 2014-15**).
- (c) Beginning in calendar year 2006, except for financial institutions, the corporate franchise tax rate was phased out 20% per year over five years. Beginning in tax year 2014, the financial institutions component was replaced with a new financial institutions tax; 2014 reflects refunds.
- (d) See **TAX LEVELS AND TAX BASES** for a discussion of the commercial activity tax (CAT) on gross receipts from doing business in Ohio – commenced in Fiscal Year 2006 at the initial rate of 0.06% and increased each year until reaching the current rate of 0.26% in Fiscal Year 2010.
- (e) Includes fines and penalties, rental receipts, refunds and certain intrastate transfers, including transfers from the Unclaimed Property Trust Fund.
- (f) Mainly subsidies to local school districts for primary and secondary education and to colleges and universities for higher education.
- (g) Beginning in Fiscal Year 2013, disbursements for Medicaid were consolidated into a separate program and the portion attributed to Public Assistance was moved into the Health and Human Services Program.
- (h) These amounts are for non-highway transportation purposes, including mass transit, rail, and aviation.
- (i) State reimbursements to taxing subdivisions for the 12.5% property tax rollback granted to homeowners of real property, for partial real property homestead tax exemptions for the elderly and handicapped (expanded commencing in July 2007), and for revenue reductions resulting from phase-out of local taxes on tangible personal property. (see **FISCAL MATTERS – Recent and Current Finances – Recent Biennia - 2014-15**).
- (j) Beginning in Fiscal Year 2013, includes debt service on non-general obligation debt previously reflected in the applicable program. Reflects the restructuring of certain GRF debt service payments into later biennia resulting in net savings of \$336.9 in Fiscal Year 2011 and \$449.3 million in Fiscal Year 2012 (see **FISCAL MATTERS – Recent and Current Finances – Current Biennia - 2012-13**).
- (k) Includes in all fiscal years transfers from the School District Property Tax Replacement Fund, in Fiscal Years 2010 through 2013 liquor profits, and in Fiscal Years 2010 through 2012 interest earnings on tobacco bond proceeds.
- (l) Fiscal Years 2012, 2013 and 2014 transfers out include \$246.9 million, \$235.1 million, and \$995.9 million to the BSF, respectively.

Recent and Current Finances

Introductory Information

The summary statements above identify receipts from specific taxes and excises that are sources of significant amounts of revenue to the State, and particularly to the GRF. As noted, there are constitutional limitations on the use of some taxes and excises, and mandated allocations of portions of some others. As the statements portray, a substantial amount of total State-level revenue is distributed to local governments and school districts under ongoing programs, including local property tax relief.

Economic activity in Ohio, as in other industrially-developed states, tends to be somewhat more cyclical than in some other states and in the nation as a whole. The GRF ending (June 30) fund balance tends to be reduced during less favorable national economic periods and then increases during more favorable economic periods. The GRF ending cash and fund balances for Fiscal Year 2015 were approximately \$1.71 billion and \$1.29 billion, respectively, with \$736.1 million of that ending fund balance transferred pursuant to statutory designations leaving a balance of \$550.4 million (see **FISCAL MATTERS – Recent and Current Finances – Recent Biennia – 2014-15**). Recent biennium-ending GRF balances were:

Biennium	Cash Balance	Fund Balance(a)	Fund Balance less Designated Transfers(b)
2006-07	\$1,432,925,000	\$215,534,000	\$215,534,000
2008-09	734,526,000	389,103,000	389,103,000
2010-11	844,467,000	430,707,000	138,816,000
2012-13	2,639,249,000	2,278,202,000	1,110,942,000
2014-15	1,711,679,000	1,286,469,000	550,369,000

(a) Reflects the ending cash balance less amounts encumbered to cover financial commitments made prior to the end of the fiscal year.

(b) Reflects the ending fund balance less any amounts designated for transfer to other funds, including the BSF.

Actions have been and may be taken by the State during less favorable economic periods to ensure resource/expenditure balance (particularly in the GRF), some of which are described below. None of those actions have been applied to appropriations or expenditures needed for debt service or lease payments relating to any State obligations.

The appropriations acts for the 2016-17 biennium included all necessary appropriations for debt service on State obligations and for lease payments relating to lease rental obligations issued by the Treasurer of State and Certificates of Participation (see **State Debt – General**).

The following is a selective general discussion of State finances, particularly GRF receipts and expenditures, for recent and the current biennia. As evidenced by the actions discussed, the State administrations and both houses of the General Assembly have been and are committed to, and have taken and are taking, actions that ensure a balance of GRF resources and expenditures.

Recent Biennia

2006-07

Consistent with State law, the Governor's Executive Budget for the 2006-07 biennium was released in February 2005 and introduced in the General Assembly. After extended hearings and review, the GRF appropriations Act for the 2006-07 biennium was passed by the General Assembly and signed (with selective vetoes) by the then Governor on June 30, 2005. That Act provided for total GRF biennial appropriations of approximately \$51.3 billion (a 5.0% increase over 2004-05 biennial expenditures) based upon expected total GRF biennial revenue of approximately \$51.5 billion (a 3.8% increase over 2004-05 biennial revenue). Spending increases for major program categories over the 2004-05 actual expenditures were: 5.8% for Medicaid (the Act also included a number of Medicaid reform and cost containment initiatives); 3.4% for higher education; 4.2% for elementary and secondary education; 5.5% for corrections and youth services; and 4.8% for mental health and mental retardation. The Executive Budget, the GRF appropriations Act and the separate appropriations acts for the biennium included all necessary debt service and lease rental payments related to State obligations.

The GRF expenditure authorizations for the 2006-07 biennium reflected and were supported by a significant restructuring of major State taxes, including:

- A 21% reduction in State personal income tax rates phased in at 4.2% per year over the 2005 through 2009 tax years. See **FISCAL MATTERS – Recent and Current Finances – Recent Biennia – 2010-11 and 2012-13** for discussion of postponement of the final installment of this personal income tax reduction until the end of tax year 2010.
- Phased elimination of the State corporate franchise tax at a rate of approximately 20% per year over the 2006 through 2010 tax years (except for its continuing application to financial institutions and certain affiliates of insurance companies and financial institutions). See **FISCAL MATTERS – Recent and Current Finances – Recent Biennia – 2012-13 and 2014-15** for discussion of the replacement of the corporate franchise tax with a new financial institutions tax effective tax year 2014.
- Implementation of a new commercial activity tax (CAT) on gross receipts from doing business in Ohio phased in over the 2006 through 2010 fiscal years. The CAT is being levied at its fully phased-in rate of 0.26% on gross receipts in excess of \$1,000,000. (See **TAX LEVELS AND TAX BASES** for a discussion of the use of a portion of the CAT to make compensating payments to school districts and other taxing units in connection with the phase-out of the local tangible personal property tax.) The fully implemented CAT produces about \$1.45 billion annually with \$139 million of that amount attributable to its application to motor fuels. In September 2009, the Ohio Supreme Court ruled that food sales for off-premise consumption may be included in the CAT base. On December 7, 2012, the Ohio Supreme Court upheld the application of the CAT to gross receipts from the sales of motor fuels but ordered that the proceeds of the CAT derived from those gross receipts – estimated by OBM at approximately \$100 million annually – could not in the future be applied to non-highway purposes. Under provisions enacted in the biennial appropriations Act for the 2014-15 biennium, the State is phasing out the CAT on the sale of motor vehicle fuel and replacing it with a “motor fuel receipts tax” (MFRT), computed on the basis of gross motor fuel receipts received by in-State suppliers. In accordance with the Ohio Supreme Court’s ruling, MFRT receipts are required to be used for highway purposes.
- A 5.5% State sales and use tax (decreased from the 6.0% rate for the 2004-05 biennium).
- An increase in the cigarette tax from \$0.55 per pack (of 20 cigarettes) to \$1.25 per pack.

The Governor signed into law on June 5, 2006 legislation enacted by the General Assembly imposing a limitation on most GRF appropriations commencing with the 2008-09 biennium. This statutory limitation initially uses Fiscal Year 2007 GRF appropriations as a baseline (excluding appropriations for debt service, tax relief and refunds, and certain appropriations reflecting moneys received from the federal government) and then applies an annual growth factor equal to the greater of 3.5% or the sum of the inflation rates and rate of State population change. Every fourth Fiscal Year thereafter becomes a new base year. This legislation was enacted as an alternative to a proposed “tax and expenditure limitation” (TEL) amendment to the Ohio Constitution that was withdrawn from the November 2006 general election ballot. All GRF appropriations since have complied with this limitation.

The State ended Fiscal Year 2006 with a GRF cash balance of \$1.529 billion and a GRF fund balance of \$1.026 billion. Of that ending GRF fund balance, the State carried forward \$631.9 million to cover the expected and planned for variance of Fiscal Year 2007 GRF appropriations over estimated revenue, to offset the one-time cost of accelerating the phase-in of reductions in State personal income tax withholding rates, and to maintain the required 0.5% of Fiscal Year 2007 GRF revenue as an ending fund balance. The remaining approximately \$394 million was deposited into the BSF increasing its balance to \$1.012 billion (which includes \$40 million in receipts collected from a broad tax amnesty initiative and deposited in June 2006). The State ended Fiscal Year 2007 with a GRF cash balance of \$1.433 billion and a GRF fund balance of \$215.5 million.

2008-09

Ongoing and rigorous consideration was given by the Governor and the General Assembly to revenues and expenditures throughout Fiscal Years 2008-09, primarily as a result of the Ohio economy being negatively affected by the national economic downturn. Budgetary pressures during this period were primarily due to continuing lower than previously estimated levels of receipts from certain major revenue sources.

Consideration came in three general time frames – winter 2007, fall/winter 2008, and spring 2009. Significant measures were taken including use of the entire Budget Stabilization Fund (BSF) balance and expenditure reductions and spending controls on State agencies and departments.

Consistent with State law, the Governor's Executive Budget for the 2008-09 biennium was released in March 2007 and introduced in the General Assembly. After extended hearings and review, the GRF appropriations Act for the biennium was passed by the General Assembly and signed (with selective vetoes) by the Governor on June 30, 2007. Reflecting the continued implementation of the restructuring of State taxes commenced in 2006-07, that Act was based upon then estimated total GRF biennial revenues of approximately \$53.5 billion (a 3.9% increase over the 2006-07 biennial revenue) and total GRF biennial appropriations of approximately \$52.4 billion (a 2.1% increase over the 2006-07 biennial expenditures). Spending increases for major program categories over the 2006-07 actual expenditures were: 2.2% for Medicaid (the Act also included a number of Medicaid reform and cost containment initiatives); 13.2% for higher education; 5.2% for elementary and secondary education; 4.9% for corrections and youth services; and 4.7% for mental health and mental retardation. The Executive Budget, the GRF appropriations Act and the separate appropriations acts for the biennium included all necessary debt service and lease rental payments related to State obligations.

The original GRF expenditure authorizations for the 2008-09 biennium reflected and were supported by tax law changes contained in the Act, including:

- Restructuring the nonresident tax exemption for Ohio motor vehicle purchases projected to produce approximately \$54.0 million for the biennium.
- Restoring local government fund support by committing a specified percentage of all tax revenues deposited into the GRF, with local governments to receive 3.7% of total GRF tax revenues annually and local libraries to receive 2.22% of total GRF tax revenues annually (see **FISCAL MATTERS – Recent and Current Finances – Recent Biennia - 2012-13** below for discussion of changes to these allocations).
- Eliminating the \$300 per month cigarette and tobacco product importation exemption projected to produce approximately \$25.0 million annually.

The GRF appropriations Act also created the Buckeye Tobacco Settlement Financing Authority (BTSFA) to securitize tobacco settlement receipts payable to the State under the November 1998 national tobacco settlement. On October 29, 2007, the Authority issued \$5.53 billion of tobacco settlement asset-backed bonds to fund capital expenditures for higher education (\$938 million) and common school (\$4.112 billion) purposes over three years in lieu of the State issuing GRF-backed general obligation bonds to fund those capital expenditures. The resulting debt service savings to the GRF partially funded the expansion of the homestead exemption property tax relief program in the Act. The Act reprogrammed all prior General Assembly allocations of anticipated tobacco settlement receipts to enable the pledge of 100% of those receipts to the payment of debt service on the Authority's obligations. The State had previously enacted legislation allocating its anticipated share of those receipts through Fiscal Year 2012 and making a partial allocation thereafter through Fiscal Year 2025, with the largest allocations to elementary and secondary school capital expenditures, and with other amounts allocated for smoking cessation and health-related purposes, biomedical research and technology transfer, and assistance to the tobacco growing areas in the State.

Winter 2007. With the Ohio economy expected to be negatively affected by the national economic downturn, in January 2008 OBM reduced its original GRF revenue projections by \$172.6 million for Fiscal Year 2008 and \$385.1 million for Fiscal Year 2009. Based on those lower GRF revenue estimates and increased costs associated with rising Medicaid caseloads, OBM projected a budgetary shortfall for the 2008-09 biennium of \$733 million.

Executive and legislative actions taken in response to those OBM estimates, included:

- On January 31, 2008, the Governor issued an executive order directing expenditure reductions and spending controls totaling approximately \$509 million (of which about \$402 million was realized) for the 2008-09 biennium, as well as limitations on major purchases, hiring and travel, based primarily on the transfers of unspent agency appropriations and the June 2008 action described below. Allocation of those reductions was determined by the OBM Director in consultation with the affected agencies and departments, with annual expenditure reductions ranging up to 10%. An employee reduction plan was also announced aimed at reducing the State's workforce by up to 2,700 through selective elimination of positions, attrition, unfilled vacancies and an early retirement incentive program. Expressly excluded

from the cutbacks were appropriations for or relating to debt service on State obligations, State higher education instructional support, foundation formula support for primary and secondary education, Medicaid entitlement programs, and ad valorem property tax relief payments.

- Transfer of unspent agency appropriations then expected to total \$120 million in Fiscal Year 2008 and \$78 million in Fiscal Year 2009.
- Authorizing expansion of the State-run lottery system to include “keno” games then projected to generate \$65 million in Fiscal Year 2009 of which approximately \$25 million was realized.

In June 2008, the General Assembly also passed legislation that provided for, among other things, transfers to the GRF (after a selective line-item veto) of up to \$63.3 million from the BSF for the State’s share of increased Medicaid costs, \$55 million from rotary funds and \$25 million in uncommitted interest earnings from proceeds of BTSFA’s Tobacco Settlement Asset-Backed Bonds issued in October 2007.

Fall/Winter 2008. With the Ohio economy continuing to be negatively affected by the national economic downturn, OBM on September 10, 2008 announced a \$540 million further reduction in its GRF revenue projections for Fiscal Year 2009 and a projected Fiscal Year budgetary shortfall of the same amount. Executive actions announced to offset the projected shortfall included:

- Use of additional planned Fiscal Year-end lapses and GRF carry forward totaling \$126.4 million.
- Use of balances in various non-GRF “rotary funds” totaling \$112 million.
- Transfer to the GRF of an additional \$40 million of interest earnings on the proceeds of the tobacco securitization referred to above.
- As authorized by June 2008 legislation referred to above, a transfer to the GRF of \$63.3 million to pay for previously authorized Medicaid expenditures.

The \$198.3 million remainder of the projected shortfall was offset by a 4.75% reduction in most agency appropriations, which did not apply to appropriations for debt service or tax relief, Medicaid and disability financial assistance, Department of Education aid to local school districts, the Departments of Rehabilitation and Corrections and Youth Services, and selected others.

On December 1, 2008, OBM announced a further \$640.4 million reduction in GRF revenue projections for Fiscal Year 2009 expected to result in a projected Fiscal Year shortfall of the same amount. Executive actions announced to offset much of that further projected shortfall included:

- Reducing total GRF Medicaid spending by \$311.1 million by using cash from non-GRF Medicaid accounts and the corresponding federal share previously planned for use in Fiscal Year 2010.
- Reducing total Medicaid program spending by \$21.3 million by enhanced focus on use of other third-party liability sources and other program savings exceeding original estimates.
- Reducing other GRF expenditures by \$180.5 million through a further 5.75% reduction in most agency appropriations, which did not apply to appropriations for debt service or tax relief, Medicaid and disability financial assistance, Department of Education aid to local school districts, or the Departments of Rehabilitation and Corrections and Youth Services, among others. These reductions were in addition to the approximately \$1.27 billion of 2008-09 biennium budget adjustments previously undertaken.

The \$131.9 million remainder of the shortfall was offset by additional Federal Medical Assistance Payments (FMAP) received under the American Recovery and Reinvestment Act of 2009 (ARRA), which increased federal Medicaid match to the GRF by that amount (after taking into account loss of federal match from the two Medicaid related actions outlined above). Based on these expenditure reductions, spending controls and other measures – and before the revised revenue estimates referred to below – OBM was then projecting a positive GRF fund balance at June 30, 2009.

Spring 2009. Based on the Administration’s continuing monitoring of revenues, and as an anticipated step in the then ongoing 2010-11 biennial budget and appropriations process, OBM reported revised revenue estimates to the General Assembly on June 11, 2009. Those estimates revised Fiscal Year 2009 revenues downward by an additional \$912 million over OBM’s December 2008 adjusted baseline, based primarily on updated income and sales tax receipts through May 31, 2009. To address this additional Fiscal Year 2009 revenue shortfall, the Governor received General Assembly approval for and used the entire remaining BSF balance of \$949 million for Fiscal Year 2009. Additional measures taken to address this shortfall included the restructuring of \$52.8 million of Fiscal Year 2009 general revenue fund debt service into Fiscal Years 2012

through 2021 and expenditure reductions of \$98 million in addition to the expenditure controls previously ordered by the Governor.

The State ended Fiscal Year 2009 with GRF cash and fund balances of \$734.5 million and \$389.1 million respectively, and a \$-0- balance in the BSF. Of the ending GRF fund balance, \$133.4 million represented the one-half of one percent of Fiscal Year 2009 GRF revenues the State is required to maintain as an ending fund balance.

2010-11

Rigorous consideration was given by the General Assembly to the Governor's Executive Budget proposed for the 2010-11 biennium in light of the difficult economic and fiscal conditions resulting from the national recession. The final GRF appropriations Act for the 2010-11 biennium, which was preceded by three seven-day interim appropriations acts, was passed by the General Assembly and signed (with selective vetoes) by the Governor on July 17, 2009. All necessary debt service and lease-rental payments related to State obligations for the entire 2010-11 biennium were fully appropriated for the three-week interim appropriations periods and under that final Act. Reflecting the final implementation of the restructuring of State taxes commenced in 2006-07 and a conservative underlying economic forecast, that Act provided for total GRF biennial appropriations of approximately \$50.5 billion (a 3.8% decrease from 2008-09 biennial expenditures) based on total GRF expected biennial revenue of approximately \$51.1 billion (a 4.2% decrease from 2008-09 biennial revenues). GRF appropriations for major program categories compared to 2008-09 actual GRF spending reflected increases of 3.4% for Medicaid (excluding ARRA funding referred to below) and 0.7% for corrections and youth services; and decreases of 13.8% for mental health and developmental disabilities, 8.3% for higher education, and 5.15% for elementary and secondary education. Among other expenditure controls, the Act included a number of Medicaid reform and cost containment initiatives and also included the restructuring of \$736 million of Fiscal Years 2010 and 2011 general revenue fund debt service into Fiscal Years 2012 through 2025.

Major new sources of revenues or savings reflected in the 2010-11 appropriations Act included:

- \$2.4 billion of "Federal Stimulus" funding received under the ARRA, including \$1.464 billion for elementary and secondary education, \$628 million for Federal Medical Assistance Payments (FMAP), and \$326 million for other purposes.
- \$933 million in gaming and license revenues from the Ohio Lottery Commission's implementation of video lottery terminals (VLTs) at the seven horse racing tracks in the State. OBM estimated the VLTs would result in an approximate \$851 million net increase in revenues for the biennium (\$285 million in Fiscal Year 2010 and \$566 million in Fiscal Year 2011) after taking into account offsetting effects of the VLTs on other lottery revenues. On September 21, 2009, the Ohio Supreme Court ruled that the statutory provisions in the biennial appropriations Act for the implementation of VLTs were subject to voter referendum and granted petitioners in that case until December 20, 2009 to submit referendum petitions with the required number of signatures. The Ohio Secretary of State on March 26, 2010 confirmed those petitions contained a sufficient number of valid signatures to place the referendum on the November 2, 2010 ballot, but on July 1, 2010 the committee for the petitioners withdrew the referendum from the ballot. In October 2011 a complaint was filed in the Court of Common Pleas of Franklin County, Ohio challenging that 2009 law authorizing the VLTs, with those challenges being asserted under various provisions of the Ohio Constitution and also under the Equal Protection Clause of the Fourteenth Amendment to the United States Constitution for granting a monopoly to only the gaming operators approved in that 2009 law. That complaint was amended in January 2012 to add two additional plaintiffs and name additional State defendants. The trial court on May 30, 2012 granted defendants' motions to dismiss the case after finding that the plaintiffs did not have legal standing to bring these challenges to the law, and the plaintiffs appealed this trial court ruling to the Tenth District Court of Appeals of Franklin County, Ohio. Since the trial court dismissed the case based on plaintiffs' lack of standing, it did not address or decide the merits of the plaintiffs' challenges. On March 14, 2013, the Court of Appeals upheld the trial court's dismissal of the case based on the plaintiffs' lack of standing, and on July 24, 2013, the Ohio Supreme Court announced that it was accepting plaintiffs' appeal of this case but holding it for review after it decided a separate case involving the question of an activist group's standing to bring challenges relating to JobsOhio (see **FISCAL MATTERS – Recent and Current Finances – Recent Biennia – 2012-13**). After the Supreme Court released its decision in that separate case involving JobsOhio on June 10, 2014, the defendants on July 2 filed a motion to

dismiss the appeal pending before the Supreme Court in the VLT case as improvidently granted based on that June 10 decision. On September 3, the Supreme Court ruled on that motion to dismiss and ordered the parties to file merit briefs relating to the standing issues the Court accepted for appeal. Those briefs were filed, and oral argument was held by the Court on June 23, 2015. On March 24, 2016, the Court affirmed the dismissal for lack of legal standing of all but one of the plaintiff-appellants' claims. With respect to the claim that the 2009 law granted a monopoly in violation of the Equal Protection Clause of the Fourteenth Amendment to the United States Constitution, the Court found the plaintiff had legal standing to bring this challenge, reversed the Tenth District's judgment affirming the dismissal of this claim, and remanded this claim to the Franklin County Court of Common Pleas for further proceedings.

- \$259 million from the Ohio Tobacco Use Prevention and Control Foundation Endowment Fund (TUPAC) to be deposited into a special State fund (non-GRF) and then intended to be used for various health care initiatives. After a trial court in August 2009 ordered these monies must remain in that endowment fund and be used for the purpose of reducing tobacco use, the State immediately appealed and in December 2009 the court of appeals ruled in favor of the State and reversed the trial court's order. The Ohio Supreme Court in December 2010 affirmed the court of appeals decision in favor of the State.
- \$1.036 billion of "one-time" revenues or savings (\$640 million in Fiscal Year 2010 and \$396 million in Fiscal Year 2011), including \$364 million from the spend-down of carry-forward balances (that required temporary suspension of the one-half of one percent ending fund balance requirement for the 2010-11 biennium), \$250 million transferred from a cash account at the Ohio School Facilities Commission, \$272 million savings from subjecting State employees to a two-week unpaid "furlough" during each year of the biennium, \$84 million from a reduction in State funding to public libraries, and \$65 million from the transfer to the GRF of interest on the proceeds of the State's 2007 tobacco securitization.
- \$530 million from transfers to the GRF of unclaimed funds and from other non-GRF funds.

In September 2010 the State also received from the federal government an award of \$518.6 million of enhanced Federal Medical Assistance Payments funding ("eFMAP"), and \$361.2 million of funding was also received by Ohio school districts for teacher salaries and personnel costs for primary and secondary education ("Ed Jobs").

In response to the above-referenced September 21, 2009 decision of the Ohio Supreme Court declaring the VLT provisions in the biennial appropriations Act subject to referendum, the Governor proposed for General Assembly consideration postponing for two years the final installment of the personal income tax reduction then scheduled to take effect in tax year 2009 (for returns filed in 2010). After extended hearings and review, the General Assembly approved, and the Governor signed into law on December 22, 2009, legislation keeping personal income tax rates at 2008 levels through tax year 2010 (see **FISCAL MATTERS – Recent and Current Finances – Recent Biennia - 2012-13** for discussion of implementation of the final phase of that personal income tax reduction).

The appropriations Act for the 2010-2011 biennium created a six-member legislative Budget Planning and Management Commission (BPMC) to "study and make recommendations that are designed to provide relief to the State during the current difficult fiscal and economic period". The BPMC commenced meeting in June 2010, heard testimony, received suggestions and released two reports with both containing estimates of "non-recurring" revenues reflected in the 2010-11 budget as enacted ranging from \$4.887 billion in the GRF to \$8.339 billion for all GRF and non-GRF funds. These estimates included the effect of the postponement of the final installment of the personal income tax reduction.

The State ended Fiscal Year 2011 with GRF cash and fund balances of \$844.5 million and \$430.7 million, respectively. Of that ending GRF fund balance, the State reserved \$138.8 million in the GRF reflecting the one-half of one percent of Fiscal Year 2011 GRF revenues the State is required to maintain as an ending fund balance and transferred \$45.0 million into disaster services/emergency funds. The remaining \$246.9 million was deposited into the BSF. These ending balances reflect the use of approximately \$680 million in Fiscal Year 2011 GRF revenue to make payments for Medicaid managed care, the State's share of instruction for higher education, payroll and other commitments that were previously scheduled to be deferred into Fiscal Year 2012.

2012-13

2012-13 Biennial Budget and Appropriations. Consistent with State law, the Governor's Executive Budget for the 2012-13 biennium was released in March 2011 and introduced in the General Assembly. After extended hearings and review, the 2012-13 biennial appropriations Act was passed by the General Assembly and signed (with selective vetoes) by the Governor on June 30, 2011. To address the use of non-recurring funding sources in the prior 2010-11 biennium including federal stimulus amounts received under ARRA, the Act included targeted spending cuts across most State agencies and major new Medicaid reform and cost containment measures. Reflecting the tax law changes described below and a conservative underlying economic forecast, that Act provided for total GRF biennial appropriations of approximately \$55.8 billion (\$27.1 billion in Fiscal Year 2012 and \$28.7 billion in Fiscal Year 2013). This reflected 10.5% and 10.7% increases over the 2010-11 GRF biennial appropriations and expenditures, respectively, based on total expected GRF biennial revenue of approximately \$56.07 billion (a 6% increase from 2010-11 GRF biennial revenues). Fiscal Year 2012 GRF appropriations increased 3.1% over Fiscal Year 2011 actual spending, and Fiscal Year 2013 GRF appropriations increased 6.1% over Fiscal Year 2012 appropriations. GRF appropriations for major program categories compared to 2010-11 actual GRF spending reflected increases of 30.2% for Medicaid (13.1% for Fiscal Year 2012 over Fiscal Year 2011, and 10.0% for Fiscal Year 2013 over Fiscal Year 2012) due in large part to the absence of ARRA funding in the 2012-13 biennium and the redirection of 2012-13 biennial spending from non-GRF to GRF sources); decreases of 3% for elementary and secondary education (a decrease of 3.5% in Fiscal Year 2012 over Fiscal Year 2011, followed by a 1.2% increase in Fiscal Year 2013 over Fiscal Year 2012), 9.1% for higher education (a decrease of 10.8% in Fiscal Year 2012 over Fiscal Year 2011, followed by a 3.8% increase in Fiscal Year 2013 over Fiscal Year 2012), and 8.1% for mental health and developmental disabilities (decreases of 0.3% in Fiscal Year 2012 over Fiscal Year 2011, and of 22.4% in Fiscal Year 2013 over Fiscal Year 2012) due to the transfer of community mental health Medicaid services to the Department of Job and Family Services); and flat funding for corrections and youth services. That Act also reflected the restructuring of \$440 million of Fiscal Year 2012 general revenue fund debt service into Fiscal Years 2013 through 2025, approximately three-quarters of which was accomplished by the July 2011 issuance by the Ohio Public Facilities Commission of \$488.8 million in refunding bonds, with the remainder accomplished by the September 2011 issuance by the Ohio Building Authority of \$149.3 million in refunding bonds.

The Executive Budget, the GRF appropriations Act and the separate appropriations acts for the biennium included all necessary debt service and lease rental payments related to State obligations (after the restructuring of Fiscal Year 2012 GRF debt service payments).

Major new sources of revenues or expenditure savings reflected in the 2012-13 appropriations Act included:

- Transfer of the State's spirituous liquor system to JobsOhio. On February 1, 2013, the State granted a 25-year franchise on its spirituous liquor system to JobsOhio Beverage System, a nonprofit corporation the sole member of which is JobsOhio, itself a nonprofit corporation created to promote economic development, job creation and retention, job training and the recruitment of business to the State. In exchange for the franchise, the State received a payment of \$1.464 billion, \$500 million of which was deposited in the GRF, \$863.5 million was used to make provision for payment of all debt service on \$725.0 million of outstanding State bonds and notes secured by a pledge of the State's profits from the sale of spirituous liquor, and \$100 million for funding certain revitalization projects. With that transfer, the State is forgoing deposits to the GRF from net liquor profits (those deposits totaled \$153.0 million in Fiscal Year 2011, \$92.5 million in Fiscal Year 2012 and \$88.0 million in Fiscal Year 2013 through the February 1 granting of the franchise to JobsOhio Beverage System). Litigation filed in April 2011 in the Ohio Supreme Court challenged, under various provisions of the Ohio Constitution, certain aspects of both JobsOhio and the General Assembly's February 2011 law that authorized its creation. Specifically, plaintiffs contested provisions in that law requiring that any challenges to that law or to the creation of JobsOhio be filed in the Ohio Supreme Court within sixty days after that law took effect. Plaintiffs also claimed that law was an improper special act conferring corporate powers, that the Governor could not serve on the JobsOhio board of directors, that the provisions for dissolution of JobsOhio violate limitations in the Ohio Constitution on State appropriations and assumption of corporate debt, and that the law created a joint venture under which the State is lending its aid and credit. On August 19, 2011, the Ohio Supreme Court dismissed this case for lack of subject matter jurisdiction. The 2012-13 appropriations Act also amended the February 2011 law to remove the Governor from the JobsOhio board of directors, require JobsOhio to comply with Ohio's nonprofit

corporation law unless specifically exempted from a provision, and eliminate the exclusive original jurisdiction in the Ohio Supreme Court and relax the deadlines for filing claims. In August 2011, the plaintiffs filed a complaint in the Court of Common Pleas of Franklin County, Ohio, containing many of the same challenges to both JobsOhio and the law that authorized its creation. In December 2011, the trial court dismissed this suit for lack of standing, and in June 2012 the Ohio Tenth District Court of Appeals affirmed the lower court's decision. In July 2012, the plaintiffs requested that the Ohio Supreme Court review the Court of Appeals decision, and on January 23, 2013, the Ohio Supreme Court announced that it would hear the plaintiffs' appeal solely on the question of standing. After full briefing and oral argument in late 2013, on June 10, 2014, the Ohio Supreme Court issued its decision affirming the judgment of the lower courts and concluding that the plaintiffs lack standing to bring this suit. On October 27, 2014, a former attorney for the plaintiffs in the case described above filed a new action in the Franklin County Court of Appeals in an attempt to revive these challenges to JobsOhio and the laws authorizing its creation and the transfer of the State's spirituous liquor system. The State and JobsOhio filed motions to dismiss this new lawsuit based on that attorney's lack of standing and other jurisdictional considerations, and on August 4, 2015, the Court of Appeals granted those motions to dismiss based on its finding that the attorney lacks standing to pursue this action. On September 18 2015, that attorney filed an appeal of this decision with the Ohio Supreme Court. All briefs have been filed by the parties and this appeal is awaiting a decision from the Court.

- Sale of five State-owned prison facilities to private operators expected to result in a net payment to the GRF of \$75 million. A case filed in August 2011 in the Court of Common Pleas of Franklin County, Ohio, challenged the authorization in the 2012-13 appropriations Act to sell these prison facilities. Specifically, this litigation alleged that the provisions in that Act authorizing the sale of these prisons, as well as that entire Act, were enacted in violation of the "one subject rule" of the Ohio Constitution and violated the constitutional right to referendum, and that the sale of the prisons would create a joinder of private and public property interests violating the constitutional prohibition against the State entering into a joint venture. On August 31, 2011, that trial court rendered a non-appealable decision denying a temporary restraining order requested by the plaintiffs. In that decision, the trial court found that the provisions of the appropriations Act authorizing the sale of the prisons were not in violation of the one subject rule, did not violate the prohibition against the State entering into a joint venture, and do not fit within the exceptions to the right to referendum. The State announced on September 1, 2011 that, based on the proposals it received for five prisons, it was opting to sell only one of those facilities and that this would accomplish most of the desired financial result for the 2012-13 biennium. On December 21, 2011, the plaintiffs voluntarily dismissed their initial case without prejudice, and on July 9, 2012, the original and additional plaintiffs filed a new case in the Court of Common Pleas of Franklin County again raising the one subject rule and joinder of private and public property claims contained in the original case, but adding a claim for reinstatement and back pay of Department of Rehabilitation and Correction employees affected by prison sales. On November 20, 2012, the trial court granted defendants' motions to dismiss and ruled that plaintiffs failed to state a claim for which relief can be granted. On December 18, 2012, plaintiffs filed an appeal in the Tenth District Court of Appeals, and on October 10, 2013, the appellate court rendered a decision reversing only the trial court's dismissal of the one-subject-rule claim and ordering the case remanded to the Court of Common Pleas for further proceedings. After the Court of Appeals on January 15, 2014 denied the plaintiffs' motion for reconsideration, both the plaintiffs and defendants filed separate further appeals with the Ohio Supreme Court on June 25, 2014. After full briefing of the case by the parties and oral argument, the Supreme Court on February 11, 2016 upheld the prison sale provisions of the Act, finding their enactment did not violate the "one subject rule" of the Ohio Constitution or its prohibition against the State entering into a joint venture with private enterprise. The Supreme Court also rejected the claim for reinstatement and back pay of Department of Rehabilitation and Correction employees on the grounds that the State Employee Relations Board has exclusive jurisdiction to determine whether employees of a privately owned or operated prison are "public employees".
- Reduction of local government fund allocations by \$111 million in Fiscal Year 2012 and \$340 million in Fiscal Year 2013. Beginning in Fiscal Year 2014, allocations are made by committing to the local government fund a set percentage of annual tax revenues deposited into the GRF (beginning with Fiscal Year 2013 GRF tax revenues).

- Reduction of public library fund allocations to 95% of Fiscal Year 2011 levels resulting in expenditure reductions of \$52.3 million in Fiscal Year 2012 and \$102.8 million in Fiscal Year 2013. Beginning in Fiscal Year 2014, allocations to public libraries are made by committing to the public library fund a set percentage of annual tax revenues deposited into the GRF (beginning with Fiscal Year 2013 GRF tax revenues).
- Accelerated phase-out of reimbursement payments to local governments and school districts in connection with the elimination of the tangible personal property tax resulting in an increased share (estimated at \$293.5 million in Fiscal Year 2012 and \$597.7 million in Fiscal Year 2013) of the commercial activity tax being deposited into the GRF (see **TAX LEVELS AND TAX BASES – Property Tax**).
- Accelerated phase-out of reimbursement payments to local governments and school districts for electric power generation deregulation and natural gas deregulation resulting in a larger share (estimated at \$141.6 million in Fiscal Year 2012 and \$147.4 million in Fiscal Year 2013) of the kilowatt-hour tax and the entire (approximately \$66.0 million in Fiscal Year 2012 and \$66.0 million in Fiscal Year 2013) natural gas consumption tax being reallocated to the GRF.
- \$235 million from transfers to the GRF of unclaimed funds and from other non-GRF funds, and \$12 million from a tax amnesty program.

The 2012-13 appropriations Act also reflected the following tax law changes:

- Implementation of the previously postponed final 4.2% annual decrease in State personal income tax rates (see **FISCAL MATTERS – Recent and Current Finances – Recent Biennia – 2010-11**).
- Elimination of the estate tax beginning January 1, 2013, previously levied at a rate of 6% on estates over \$338,333 and 7% on estates over \$500,000. In Fiscal Year 2010, estate tax collections totaled \$285.8 million of which \$230.8 million was distributed to the local government jurisdictions from which it was collected and with \$55.0 million retained by the State and deposited into the GRF.
- Establishment of the InvestOhio income tax credit program under which investors in small businesses based in Ohio who hold their investments for at least two years may receive 10% income tax credits limited to a maximum of \$10 million per investor per biennium with no more than \$100 million of those credits to be issued over two years.

The 2012-13 biennial appropriations Act created a Medicaid reserve fund and authorized the OBM Director to transfer up to \$130 million from the GRF, if necessary, to provide for the payment of Medicaid costs above the enacted level of appropriations. That Act also created a \$104 million Unemployment Compensation Contingency Fund to pay interest on federal advances to the State Unemployment Compensation Fund, \$70.7 million of which was used to make the interest payment due in September 2011, with the remaining amount applied to the September 2012 interest payment of \$65.8 million. The September 2012 interest payment was also funded by a \$25 million GRF supplemental appropriation and a contribution from the State's Unemployment Compensation Administration Fund. The Act also made changes to State construction bidding procedures and included additional authorizations for joint purchasing by and cooperation among local governments, all designed to create opportunities for cost savings.

Separate legislation was passed by the General Assembly and signed by the Governor on June 29, 2011, to reduce the State prison population by, among other changes, directing some low-level offenders to community-based programs.

2012 Mid-Biennium Review. On March 14, 2012, the Governor announced a series of policy proposals resulting from a "mid-biennium review" (2012 MBR), with a stated focus on job creation as a priority. The Governor's 2012 MBR included proposals for General Assembly consideration in the areas of: *energy* (including shale oil and gas production opportunities in the Marcellus and Utica fields in the State, and modernizing the State's oil and gas severance tax; electric generation and transmission; coal; cogeneration, alternative fuels and renewables; energy efficiency; and regulatory reform); *personal income tax reduction* (proposing that any new revenue from shale oil and gas production and the MBR proposal to modernize the State's oil and gas severance tax system be used to reduce personal income tax rates by a commensurate amount); *bank and financial institutions tax reform* (including a modernization, intended to be revenue-neutral, of Ohio's taxes on banks and financial institutions replacing the corporate franchise and dealers in intangibles

tax with a new financial institutions tax more accurately reflecting modern banking practices, closing loopholes and reducing the overall tax burden on most banks); *education* (including proposals for strengthening Ohio's "third grade reading guarantee", career education, a new school performance measuring system, expansion of digital and online learning, flexibility for teacher evaluations, new standards for dropout recovery schools, assessments of all publicly funded early childhood programs, and supporting adoption of a school reform plan for the City of Cleveland schools); *workforce development* (creating job opportunities for the developmentally disabled; an improved workforce development program; allowing those undergoing training with an employer to continue collecting unemployment benefits; linking energy companies with trained workers; and matching skilled veterans to the most in demand jobs); and achieving more *management efficiency* with associated State and local government budgetary savings (including combining the separate Offices of the State Architect and Engineer and the Office of Energy Services into an Ohio Facilities Construction Commission (OFCC) to administer the design and construction of state public facilities, with the Ohio School Facilities Commission retained as an independent agency within the OFCC but sharing employees and facilities). Those 2012 MBR proposals were considered by the General Assembly commencing in March in twelve separate pieces of legislation, and the General Assembly in May and June passed seven pieces of legislation addressing the subjects of energy (not including the 2012 MBR proposed changes to the State's oil and gas severance tax), tax reform (not including the 2012 MBR personal income tax reduction proposal), education, workforce development, and management efficiency for both state and local governments.

As further implementation of the 2012 MBR, the General Assembly enacted and the Governor signed into law on December 20, 2012, a new financial institutions tax that first applied to tax year 2014. This new tax applies to many companies that were previously subject to Ohio's corporate franchise tax (primarily banks and other corporations classified as financial institutions) and also generally subjects "dealers in intangibles" (e.g., mortgage brokers, stockbrokers, finance and loan companies not classified as financial institutions) to the commercial activity tax. This new financial institutions tax replaced the current corporate franchise tax on financial institutions and the current dealers in intangibles tax. The proceeds from the new financial institutions tax are deposited in the GRF like the proceeds from the taxes it replaced. Based on revenue targets and mechanisms established in the legislation, OBM projected the effect of these tax changes to be revenue neutral to the GRF.

Fiscal Year 2013 Results. The State ended Fiscal Year 2013 with GRF cash and fund balances of \$2.64 billion and \$2.28 billion, respectively. These ending balances reflect approximately \$1.15 billion in Fiscal Year 2013 underspending due largely to actual Medicaid expenditures \$883.0 million below the original Fiscal Year 2013 spending estimate. Of that ending GRF fund balance, the State deposited \$995.9 million into the Budget Stabilization Fund (BSF) increasing its balance to \$1.48 billion which was the then statutorily designated five percent of Fiscal Year 2013 GRF revenues; carried forward \$963.2 million to offset the one-time cost of accelerating the phase-in of reductions in State personal income tax withholding rates (see **FISCAL MATTERS – Recent and Current Finances - Current Biennium**), and transferred \$120 million into the Unemployment Compensation Contingency Fund to pay interest on federal advances to the State Unemployment Compensation Fund and \$51.3 million into disaster services/emergency funds. The remaining \$147.8 million was reserved in the GRF reflecting the one-half of one percent of Fiscal Year 2013 GRF revenues the State is required to maintain as an ending fund balance.

2014-15

2014-15 Biennial Budget and Appropriations. Consistent with State law, the Governor's Executive Budget for the 2014-15 biennium was released in February 2013 and introduced in the General Assembly. After extended hearings and review, the 2014-15 biennial appropriations Act was passed by the General Assembly and signed (with selective vetoes) by the Governor on June 30, 2013. With a stated focus on job creation and continued spending restraint, and based on a conservative economic forecast, that Act provided for total GRF biennial appropriations of approximately \$62.0 billion (\$30.3 billion in Fiscal Year 2014 and \$31.7 billion in Fiscal Year 2015). This reflected 11.1% and 15.1% increases over the 2012-13 GRF biennial appropriations and expenditures, respectively, and was based on expected total GRF biennial revenue (not including the \$963.2 million carried-forward from the 2012-13 biennium) of approximately \$61.1 billion (a 7.7% increase from 2012-13 GRF biennial revenues). Fiscal Year 2014 GRF appropriations were increased 10.3% over Fiscal Year 2013 actual spending, and Fiscal Year 2015 GRF appropriations were increased 4.7% over Fiscal Year 2014 appropriations. GRF appropriations for major program categories compared to 2012-13 actual GRF spending reflected increases of 22.1% for Medicaid (16.8% for Fiscal Year 2014 over Fiscal Year 2013, and 6.2% for

Fiscal Year 2015 over Fiscal Year 2014) attributable in large part to federal Affordable Care Act induced enrollment of previously eligible individuals and federally mandated physician rate increases; 8.9% for elementary and secondary education (5.0% for Fiscal Year 2014 over Fiscal Year 2013, and 5.8% for Fiscal Year 2015 over Fiscal Year 2014) due largely to enhancements in the K-12 school funding formula; 5.3% for higher education (1.8% for Fiscal Year 2014 over Fiscal Year 2013, and 2.1% for Fiscal Year 2015 over Fiscal Year 2014); 11.3% for mental health and developmental disabilities (8.9% for Fiscal Year 2014 over Fiscal Year 2013, and 0.3% for Fiscal Year 2015 over Fiscal Year 2014); and 2.1% for corrections and youth services (0.1% for Fiscal Year 2014 over Fiscal Year 2013, and 0.2% for Fiscal Year 2015 over Fiscal Year 2014). The Act also implemented a new school funding formula (see **SCHOOLS AND MUNICIPALITIES – Schools**), allocated a portion of State public higher education funding to institutions based on their graduation rates, and eliminated the Ohio Cultural Facilities Commission by moving the administration of cultural facilities projects to the Ohio Facilities Construction Commission to achieve efficiencies and budgetary savings.

The Executive Budget, the 2014-15 appropriations Act and separate appropriations acts for the biennium included all necessary debt service and lease rental payments related to State debt obligations.

The 2014-15 biennial appropriations Act reflected the following tax reductions and related adjustments of major State taxes (primarily the personal income and sales and use taxes), resulting in an estimated net reduction in GRF revenues of \$1.16 billion in Fiscal Year 2014 and \$771 million in Fiscal Year 2015, including:

- A 10% reduction in State personal income tax rates phased-in over three years (8.5% in calendar year 2013, 0.5% in calendar year 2014, and 1.0% in calendar year 2015), coupled with a freeze on the indexing of the State income tax brackets and the personal exemption for tax years 2013 through 2015 until these rate reductions are fully implemented (see 2014 MBR discussion below for information on the acceleration into calendar year 2014 of the 1% reduction initially scheduled to take effect for calendar year 2015).
- Creation of a non-refundable earned income tax credit equal to 5% of the federal earned income credit that is limited to 50% of liability for gross income that exceeds \$20,000 (see 2014 MBR discussion below for information on the increase of the credit amount from 5% to 10%).
- A new deduction for small businesses of 50% of annual adjusted business net income up to \$250,000 (see 2014 MBR discussion below for information on the temporary increase of this deduction to up to 75% for tax year 2014).
- Elimination of the \$20 personal income tax exemption for filers with a gross income greater than \$30,000 and of the gambling loss deduction.
- An increase in the State sales and use tax by one-quarter percent (from 5.5% to 5.75%) beginning September 1, 2013.
- Authorization of full membership for the State in the streamlined sales tax project for the collection of State sales taxes on out-of-state companies for catalog and internet purchases.
- Expansion of the State sales tax base to include digital goods such as e-books, music and video downloads and repeal of the exemption for magazine purchases.
- Elimination of the corporate franchise tax (and dealers in intangibles tax) and the initial implementation and collection of the new financial institutions tax in tax year 2014.
- Elimination of the 12.5% property tax roll back for owner-occupied residential property for new voter-approved local property tax levies.
- Reinstating income requirements for eligibility for new applicants for the State's homestead tax exemption (this exemption was expanded in 2007 to include all senior citizens and disabled Ohioans regardless of income).
- Establishing a variable minimum for the commercial activity tax for businesses with gross receipts greater than \$1 million and an exemption from the CAT for grain handlers.

Medicaid Expansion. Subsequent to the passage of the GRF appropriations Act, the seven member State Controlling Board on October 21, 2013 voted 5 to 2 to increase federal Medicaid appropriations by approximately \$562 million in fiscal year 2014 and approximately \$2.0 billion in fiscal year 2015. These additional federal appropriations were to support the federally-authorized expansion of the Medicaid program to cover those with incomes up to 138% of the federal poverty level using 100% federal funds in fiscal years 2014 and 2015. On October 22, six State Representatives and two local right to life organizations filed an action in

the Ohio Supreme Court against the Controlling Board and the Ohio Department of Medicaid requesting that Court vacate the Controlling Board's October 21 action. The Controlling Board and State Department of Medicaid filed their initial answer to the complaint on November 5 and, after all evidence and briefs of the parties were submitted on the expedited schedule set for this case, the Court on December 20, 2013 issued its decision upholding the Controlling Board's action.

2014 Mid-Biennium Review. On March 12, 2014, the Governor announced a series of initiatives across a range of topics resulting from a "mid-biennium review" for 2014-15 (2014 MBR), with the stated purpose of keeping Ohio moving forward. The Governor's 2014 MBR included a range of proposals in the areas of: *elementary and secondary education* (including proposals for dropout prevention and recovery and making technical and vocational education accessible by more students as early as the seventh grade); *higher education* (including proposals for reforming Ohio's dual credit programming to encourage more students to earn college credit while in high school; extending to two-year community colleges a funding formula tied to successful student outcomes; tying state funding for technical centers to the percentage of their students that find a job and other outcome-based benchmarks; increased use of technology and distance learning; increasing enrollment of international students and their retention in Ohio post-graduation; providing community colleges the option to offer a guaranteed tuition rate; and providing veterans college credit for their military training and experience); *income tax reductions and other tax adjustments* (including proposals to lower income tax rates across all income levels by 8.5% over the next three years; increasing the state's earned income tax credit for low-income Ohioans from 5% to 15% of the federal earned income tax credit; increasing the state income tax personal exemptions for those with annual incomes up to \$80,000; raising the tax on cigarettes by 60 cents to \$1.85 per pack with equivalent taxes on other tobacco products including e-cigarettes; increasing the oil and gas severance tax to 2.75% of producer gross receipts while eliminating that tax for small conventional gas producers and exempting from that tax up to \$8 million of gross receipts per well during the first three years to help producers recoup their start-up drilling costs, with approximately 20% of severance tax revenue directed to local governments in shale oil and gas producing regions of the state; and updating the commercial activity tax rate from its initial 0.26% rate established in 2005 to 0.30%); *workforce* (aligning the three main federal workforce programs through a single, integrated plan to provide faster and improved training; and expediting professional licensing and certification for veterans and their spouses); and *human services* (including increased access to crisis intervention and safe places for those with mental illness and addictions; allocating \$26.9 million of non-GRF funds to support tobacco prevention and cessation programs; and expanding drug and substance abuse prevention in schools and prioritizing statewide funding for prevention initiatives). The 2014 MBR also proposed increasing appropriations to the Department of Rehabilitation and Correction by \$53.5 million to address a rise in the prison population, and reducing local property tax reimbursement and debt service appropriations for the biennium by \$35 million and \$92 million, respectively, due to lower than expected payments, while continuing all necessary appropriations for debt service and lease rental payments for State obligations.

Those 2014 MBR proposals were introduced in the General Assembly in March as fourteen separate pieces of legislation, seven of which were enacted by the General Assembly in May and June and addressing the subjects of elementary and secondary education (including \$5 million for alternative education programs), higher education (including \$3.1 million for the State share of instruction), workforce and human services (including \$16 million for early education and child care, \$16.8 million for adult and child protection services, and \$3.2 million for Family and Children Services). As further implementation of the biennial appropriations Act and due to positive Fiscal Year 2014 financial results, the 2014 MBR legislation passed by the General Assembly also included the following additional reductions and adjustments to the State personal income tax resulting in an estimated net reduction in GRF revenues of \$402 million in Fiscal Year 2015:

- Acceleration into calendar year 2014 of the remaining 1% reduction in State personal income tax rates previously scheduled to be effective in calendar year 2015.
- An increase in the non-refundable earned income tax credit from 5% to 10% of the federal earned income credit that is limited to 50% of liability for gross income that exceeds \$20,000.
- A temporary increase in the deduction for small businesses from 50% up to 75% of annual business net income up to \$250,000 for tax year 2014.
- An increase in the State income tax personal exemption from \$1,700 to \$2,200 for gross income less than \$40,000, and from \$1,700 to \$1,950 for gross income between \$40,000 and \$80,000.

The 2014 MBR legislation passed by the General Assembly also authorized the OBM Director to transfer to a Medicaid reserve fund up to \$300 million from the GRF, if necessary, to provide for the payment of Medicaid costs above the enacted level of appropriations. The full amount of this transfer was made at the end of Fiscal Year 2014; see next paragraph for further transfers out of the Medicaid reserve fund at the end of Fiscal Year 2015.

Fiscal Year 2015 Financial Results. The State ended Fiscal Year 2015 with GRF cash and fund balances of \$1.71 billion and \$1.29 billion, respectively. Of that ending GRF fund balance, the State reserved \$157.4 million to satisfy the requirement to maintain one-half of one percent of State Fiscal Year 2015 GRF revenues as an ending fund balance, carried forward \$393.0 million to cover the planned for and modest variance of Fiscal Year 2016 GRF appropriations over estimated revenue, transferred \$425.5 million to the BSF, \$50 million to the health and human services fund (see **Current Biennium** below for discussion on the creation of this fund), \$42 million to the Straight A fund, \$40 million to pay unemployment compensation loan interest and \$20 million for disaster services. The State also made 16 other smaller transfers totaling \$149.5 million with the remaining \$9.1 million transferred to the income tax reduction fund. Of the \$331.1 million Fiscal Year 2015 ending balance in the Medicaid reserve fund, the State transferred \$72.0 million to a school district tangible personal property tax supplement fund, \$101.1 million to the BSF (bringing its balance to \$2.005 billion), and \$158.0 million to the GRF.

Current Biennium

Consistent with State law, the Governor's Executive Budget for the 2016-17 biennium was released on February 2, 2015 and introduced in the General Assembly. After extended hearings and review, the 2016-17 biennial appropriations Act was passed by the General Assembly and signed (with selective vetoes) by the Governor on June 30, 2015. Reflecting a stated continuing focus on job creation, and based on a conservative economic forecast, that Act provides for GRF appropriations of approximately \$34.9 billion in Fiscal Year 2016 (reflecting a 13.1% increase over Fiscal Year 2015 actual spending) and \$36.3 billion in Fiscal Year 2017 (reflecting a 4.2% increase over Fiscal Year 2016 appropriations). Those total GRF appropriations of \$71.2 billion for the 2016-17 biennium reflect a 14.9% increase over the 2014-15 GRF biennial appropriations and a 19.2% increase over the 2014-15 GRF actual expenditures. Those appropriations are based on expected GRF revenue of \$34.9 billion in Fiscal Year 2016, which excludes the \$393.0 million carried-forward from Fiscal Year 2015 (reflecting a 10.8% increase over Fiscal Year 2015 revenue), and \$36.5 billion in Fiscal Year 2017 (reflecting a 4.6% increase over expected Fiscal Year 2016 revenues). Total GRF revenues across the 2016-17 biennium reflect a 17.5% increase from 2014-15 GRF biennial revenues.

GRF major program categories (excluding debt service) reflect the following increases: for Medicaid, 21.8% in Fiscal Year 2016 appropriations over Fiscal Year 2015 expenditures (driven in large part to the shift in funding to the GRF from non-GRF sources beginning in Fiscal Year 2016 for the Medicaid expansion population), and 5.1% for Fiscal Year 2017 appropriations over Fiscal Year 2016 appropriations (in total increasing 30.6% over 2014-15 actual spending); for elementary and secondary education, 5.0% for Fiscal Year 2016 appropriations over Fiscal Year 2015 expenditures, and 4.2% for Fiscal Year 2017 appropriations over Fiscal Year 2016 appropriations (in total increasing 10.9% over 2014-15 actual spending); for higher education, 4.5% for Fiscal Year 2016 appropriations over Fiscal Year 2015 expenditures, and 3.3% for Fiscal Year 2017 appropriations over Fiscal Year 2016 appropriations (in total increasing 7.5% over 2014-15 actual spending); for mental health and developmental disabilities, 9.1% for Fiscal Year 2016 appropriations over Fiscal Year 2015 expenditures, and 7.3% for Fiscal Year 2017 appropriations over Fiscal Year 2016 appropriations (in total increasing 13.1% over 2014-15 actual spending); for corrections and youth services, 4.8% for Fiscal Year 2016 appropriations over Fiscal Year 2015 expenditures, and 3.0% for Fiscal Year 2017 appropriations over Fiscal Year 2016 appropriations (in total increasing 6.6% over 2014-15 actual spending). The Act also modifies the school funding formula to distribute new resources to districts with less capacity to raise revenues locally (see **SCHOOLS AND MUNICIPALITIES – Schools**) and freezes tuition and fees for two- and four year higher education institutions.

The Executive Budget, the 2016-17 appropriations Act and separate appropriations acts for the biennium include all necessary debt service and lease rental payment appropriation authority related to State debt obligations.

The 2016-17 biennial appropriations Act reflected the following tax reductions and related adjustments, resulting in an estimated net reduction in GRF revenues (relative to prior law) of \$869.0 million in Fiscal Year 2016 and \$952.0 million in Fiscal Year 2017, including:

- An across-the-board 6.3% reduction in State personal income tax rates in calendar year 2015.
- Continuation of the 75% exemption on the first \$250,000 of business net income for small businesses in tax year 2015 (previously increased on a temporary basis for tax year 2014 (see **FISCAL MATTERS – Recent and Current Finances – Recent Biennia - 2014-15**)) and completely exempting the first \$250,000 of business net income in tax year 2016 and beyond.
- Beginning in tax year 2015, replacing the multi-bracket tax system for small businesses with a low flat rate of 3% on the amount of business net income. Legislation subsequently passed by the General Assembly clarifying this provision is estimated by OBM to reduce GRF revenues in Fiscal Year 2016 by up to \$81 million.
- Beginning in tax year 2015, limiting certain retirement income credits to taxpayers whose individual or joint adjusted gross income is less than \$100,000 (this exemption was previously available to all taxpayers aged 65 years and older).
- An increase in the cigarette tax from \$1.25 per pack (of 20 cigarettes) to \$1.60 pack, effective July 1, 2015.

The 2016-17 biennial appropriations Act also reflects:

- The resumption of the phase-out of reimbursements to local governments and school districts in connection with the elimination of the tangible personal property tax, resulting in an increased share (estimated at \$428.7 million in Fiscal Year 2016 and \$445.3 million in Fiscal Year 2017) of the commercial activity tax being deposited into the GRF (see **TAX LEVELS AND TAX BASES – Property Tax**); and
- The continuing phase-out of reimbursements to local governments and school districts for electric power generation deregulation and natural gas deregulation resulting in an increased share (estimated at \$56.3 million in Fiscal Year 2016 and \$56.0 million in Fiscal Year 2017) of the kilowatt-hour tax being reallocated to the GRF.

The 2016-17 appropriations Act also created a health and human services fund to pay for public health programs or services and authorized the OBM Director to transfer \$150 million in Fiscal Year 2017, which amount is in addition to the \$50 million transferred at the end of Fiscal Year 2015

OBM is currently projecting a positive GRF fund balance at the end of Fiscal Year 2016. As discussed above, the State is effectively precluded by its Constitution from ending a Fiscal Year or a biennium in a “deficit” position. OBM continually monitors and analyzes revenues and expenditures and related developments (including pending litigation) and prepares at the end of each month a financial report, the most recent of which is accessible via OBM’s home page at <http://obm.ohio.gov> with copies also available upon request to OBM.

Cash Flow

Because GRF cash receipts and disbursements do not precisely coincide, temporary GRF cash flow deficiencies often occur in some months, particularly the middle months, of a Fiscal Year. Statutory provisions provide for effective management of cash flow by permitting the adjustment of payment schedules (as was done during some prior Fiscal Years) and the use of the Total Operating Fund (TOF). The State has not done and does not do external revenue anticipation borrowing.

The TOF includes the total consolidated cash balances, revenues, disbursements and transfers of the GRF and several other specified funds (including the BSF). The TOF cash balances are consolidated only for the purpose of meeting cash flow requirements, and, except for the GRF, a positive cash balance must be maintained for each discrete fund included in the TOF. The GRF is permitted to incur a temporary cash deficiency by drawing upon the available consolidated cash balance in the TOF. The amount of that permitted GRF cash deficiency at any time is limited by statute to 10% of GRF revenues for the then preceding Fiscal Year.

The State plans for and manages monthly GRF cash flow deficiencies within each Fiscal Year. GRF cash flow deficiencies have been within the TOF limitations discussed above.

STATE DEBT

General

The incurrence or assumption of debt by the State without a popular vote is, with limited exceptions, prohibited by the State Constitution. The State may incur debt to cover casual deficits or to address failures in revenues or to meet expenses not otherwise provided for, but limited in amount to \$750,000. The Constitution expressly precludes the State from assuming the debts of any county, city, town or township, or of any corporation. (An exception in both cases is for debts incurred to repel invasion, suppress insurrection, or defend the State in war.) The Constitution provides that “Except the debts above specified . . . no debt whatever shall hereafter be created by, or on behalf of the state.”

By 20 constitutional amendments approved from 1921 to present, Ohio voters have authorized the incurrence of State general obligation debt and the pledge of taxes or excises to its payment, all related to the financing of capital facilities, except for three that funded bonuses for veterans, one to fund coal technology research and development, and one to fund other research and development activities. Currently, tax supported general obligation debt of the State is authorized to be incurred for the following purposes: highways, local infrastructure, coal development, natural resources and parks, higher education, common schools, conservation, research and development, site development, and veterans compensation. Although supported by the general obligation pledge, highway debt is also backed by a pledge of and has always been paid from the State’s motor fuel taxes and other highway user receipts that are constitutionally restricted in use to highway related purposes.

State special obligation debt, the owners or holders of which are not given the right to have excises or taxes levied by the General Assembly to pay principal and interest, is authorized for purposes specified by Section 2i of Article VIII of the Constitution. The Treasurer of State (Treasurer) currently issues the special obligations authorized under that Section 2i for parks and recreation and mental health facilities, and for facilities to house branches and agencies of State government and their functions, including: State office buildings and facilities for the Department of Administrative Services (DAS) and others, the Department of Transportation (ODOT); correctional and juvenile detention facilities for the Departments of Rehabilitation and Correction (DRC) and Youth Services (DYS), various cultural facilities, and formerly for the Department of Public Safety (DPS). Debt service on all these special obligations is paid from GRF appropriations, with the exception of debt issued for ODOT and DPS facilities which is paid from highway user receipts. All of those debt service payments are subject to biennial appropriations by the General Assembly pursuant to leases or other agreements entered into by the State.

Certificates of Participation (COPs). State agencies also have participated in buildings and equipment, information systems and non-highway transportation projects that have local as well as State use and benefit, in connection with which the State has entered into lease-purchase agreements with terms ranging from 7 to 20 years. Certificates of Participation (COPs) have been issued in connection with those agreements that represent fractionalized interests in and are payable from the State’s anticipated lease payments. The maximum annual payment from GRF appropriations under those existing agreements is \$44.3 million in Fiscal Year 2017 and the total GRF-supported principal amount outstanding is \$207.2 million. Payments by the State are subject to biennial appropriations by the General Assembly with the lease terms subject to renewal if appropriations are made. The approval of the OBM Director and either the General Assembly or the State Controlling Board is required if COPs are to be publicly offered in connection with those agreements.

Revenue Bonds. Certain State agencies issue revenue bonds that are payable from revenues from or relating to revenue producing facilities, such as those issued by the Ohio Turnpike and Infrastructure Commission. By judicial interpretation, such revenue bonds do not constitute “debt” under the constitutional provisions described above. The Constitution authorizes State bonds for certain economic development and housing purposes (the latter issued by the Ohio Housing Finance Agency) to which tax moneys may not be obligated or pledged. See the discussion of expanded housing finance authority, and permitted pledges to it, below under **Additional Authorizations**.

Tax Credits in Support of Other Long Term Obligations. The State has authorized the issuance of fully refundable tax credits in support of “credit-collateralized bonds” issued from time to time by the Columbus-Franklin County Finance Authority to provide funding for the Ohio Capital Fund (OCF) to promote venture capital investment in Ohio and any additional bonds that may be issued to refinance those outstanding bonds or provide additional funding for that purpose. Those tax credits may be claimed by the bond trustee for the

purpose of restoring the bond reserve fund for those credit-collateralized bonds in the event it is drawn upon and its required balance is not restored from other sources. Those credits may not be claimed after June 30, 2036, and the maximum amount of tax credits that may be claimed is \$20 million in any fiscal year and \$380 million in total. The highest annual payment for outstanding credit-collateralized bonds is \$19.6 million in Fiscal Year 2022 and the total principal amount outstanding for those bonds is \$164.0 million. Proceeds of the OCF bonds fund investments in venture capital funds to promote investment in seed and early-stage Ohio-based business enterprises.

Prior Economic Development and Revitalization Obligations. Prior to the February 1, 2013 granting of a 25-year franchise on the State’s spirituous liquor system to JobsOhio, there were outstanding \$725.0 million of State bonds and notes secured by a pledge of the State’s profits from the sale of spirituous liquor. In connection with the granting of that franchise, provision was made for the payment of all the debt service on those bonds and notes which are defeased and no longer outstanding obligations of the State (see **FISCAL MATTERS – Recent and Current Finances – Recent Biennia - 2012-13**). Those bonds and notes were originally issued to fund a statewide economic development program that assisted in the financing of facilities and equipment for industry, commerce, research and distribution, including technology innovation, by providing loans and loan guarantees. Under its franchise agreement with JobsOhio, the State may not issue additional obligations secured by a pledge of profits from the sale of spirituous liquor during the 25-year term of that franchise.

Obligations and Funding Commitments for Highway Projects Payable from Highway-Related Non-GRF Funds. As described above, the State’s highway general obligations and special obligations for ODOT and DPS facilities have always been paid from the State’s motor fuel tax and other highway user receipts that are constitutionally restricted in use to highway related purposes. In addition to its issuance of highway general obligation bonds, the State has and expects to continue financing selected highway infrastructure projects by issuing federal highway grant anticipation revenue (GARVEE) bonds and entering into agreements that call for debt service payments to be made from federal Title 23 transportation funds allocated to the State, subject to biennial appropriations by the General Assembly. The highest annual State payment under those agreements in the current or any future fiscal year is \$179.3 million in Fiscal Year 2016. In the event of any insufficiency in the anticipated federal allocations to make payments on GARVEE bonds, the payments are to be made from any lawfully available moneys appropriated to ODOT for the purpose.

In December 2014, ODOT also entered into its first public-private agreement to provide “availability payments” in support of the development and operation of a State highway improvement project. Those availability payments are expected to be paid from non-GRF funds available to ODOT remaining after the payment of debt service on highway general obligations, ODOT special obligations and GARVEE bonds. That public-private agreement provides for availability payments in a base annual amount of \$25.8 million beginning no earlier than Fiscal Year 2019, increasing to a projected maximum payment of \$40.6 million in Fiscal Year 2053. Availability payments are subject to biennial appropriation by the General Assembly with the public-private agreement subject to automatic renewal upon appropriation of the biennial availability payments.

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Variable Rate Debt

The State currently has \$472,430,000 in outstanding general obligation variable rate debt as follows with liquidity provided by the State for all of these issues:

<u>Dated Date</u>	<u>Outstanding</u>	<u>Purpose/Series</u>	<u>Rate Period</u>	<u>Final Maturity</u>
11/29/01	\$50,000,000	Infrastructure, 2001B	Weekly	8/1/2021
2/26/03	46,135,000	Infrastructure Refunding, 2003B	Weekly	8/1/2017
3/20/03	28,895,000	Infrastructure Refunding, 2003D	Weekly	2/1/2019
12/15/03	67,000,000	Common Schools, 2003D	Weekly	3/15/2024
3/3/04	53,340,000	Infrastructure Refunding, 2004A	Weekly	2/1/2023
4/1/05	102,650,000	Common Schools, 2005A/B	Weekly	3/15/2025
6/7/06	124,410,000	Common Schools, 2006B/C	Weekly	6/15/2026

Interest Rate Swaps

As part of its debt management, the State is also party to the following floating-to-fixed interest rate swap agreements with a total notional amount currently outstanding of \$397,400,000:

<u>Outstanding Notional Amount</u>	<u>Related Bond Series</u>	<u>State Pays</u>	<u>State Receives</u>	<u>Counterparty</u>	<u>Effective Date</u>	<u>Termination Date</u>
\$50,000,000	Infrastructure 2001B	4.630%	SIFMA ¹	JP Morgan/Wells Fargo	11/29/2001	8/1/2021
67,000,000	Common Schools 2003D	3.414%	LIBOR ²	JP Morgan/Wells Fargo	9/14/2007	3/15/2024
53,340,000	Infrastructure 2004A Refunding	3.510%	LIBOR ²	Wells Fargo	3/3/2004	2/1/2023
102,650,000	Common Schools 2005A/B	3.750%	LIBOR ^{2,3}	JP Morgan	3/15/2007	3/15/2025
124,410,000	Common Schools 2006B/C	3.202%	LIBOR ²	US Bank/RBC	6/15/2006	6/15/2026

¹ Securities Industry and Financial Markets Association (SIFMA) weekly variable rate index.

² Variable interest rate based on a percentage of one-month London Inter-Bank Offered Rate (LIBOR) plus a fixed increment.

³ Variable interest rate based on 62% of 10-year LIBOR beginning September 15, 2014.

For all its swap agreements, the State has established minimum uncollateralized counterparty rating thresholds of AA-/Aa3. Under each of these agreements, the counterparty is required to progressively post collateral securing the State's position if the counterparty's credit ratings fall below these minimum thresholds.

Constitutional Limitation on Annual Debt Service

A 1999 constitutional amendment provides an annual debt service "cap" applicable to most future issuances of State general obligations and other State direct obligations payable from the GRF or net State lottery proceeds. Generally, new obligations may not be issued if debt service for any future Fiscal Year on those new and the then outstanding bonds of those categories would exceed 5% of the total of estimated GRF revenues (excluding GRF receipts from the American Recovery and Reinvestment Act of 2009) plus net State lottery proceeds for the Fiscal Year of issuance. Those direct obligations of the State include general obligation and special obligation bonds that are paid from the State's GRF, but exclude (i) general obligation debt for third frontier research and development, development of sites and facilities, and veterans compensation, and (ii) general obligation debt payable from non-GRF funds (such as highway bonds that are paid from highway user receipts). Pursuant to the implementing legislation, the Governor has designated the OBM Director as the State official responsible for making the 5% determinations and certifications. Application of the 5% cap may be waived in a particular instance by a three-fifths vote of each house of the Ohio General Assembly and may be changed by future constitutional amendments.

The following table presents a current summary of State debt authorizations and obligations, including the Bonds. The General Assembly has appropriated sufficient moneys to meet debt service requirements for the current biennium (ending June 30, 2017) on all of the obligations included in this and the accompanying tables.

	Authorized by General Assembly	Issued(a)	Outstanding(b)
<i>Obligations Payable from the GRF</i>			
<u>General Obligations</u>			
Coal Development(c)	\$258,000,000	\$234,000,000	\$36,930,000
Infrastructure(d,e)	4,082,000,000	3,599,986,136	1,763,875,000
Natural Resources(f)	458,000,000	418,130,000	146,915,000
Common School Facilities(e)	5,170,000,000	4,470,000,000	2,802,235,000
Higher Education Facilities	4,015,000,000	3,220,000,000	2,073,930,000
Conservation(g)	600,000,000	400,000,000	227,475,000
Research & Development(h)	1,200,000,000	761,000,000	449,885,000
Site Development	150,000,000	150,000,000	73,200,000
Veterans Compensation(i)	200,000,000	83,910,000	<u>59,395,000</u>
		Total:	\$7,633,840,000
<u>Special Obligations</u>			
DAS Facilities	\$1,937,700,000	\$1,776,000,000	\$605,770,000
DRC Prison Facilities	2,261,000,000	1,954,500,000	468,210,000
DYS Facilities	379,000,000	332,000,000	104,380,000
Cultural & Sports Facilities	641,000,000	534,690,000	111,145,000
Higher Education Facilities	4,817,590,000	4,817,590,000	-0-
Mental Health Facilities	1,636,000,000	1,517,085,000	156,785,000
Parks & Recreation Facilities	840,000,000	528,000,000	<u>183,050,000</u>
		Total:	\$1,629,340,000
<i>Obligations Payable from Non-GRF Sources(j)</i>			
<u>Highway User Receipts</u>			
G.O. Highway(k)	\$3,428,000,000	\$2,921,410,000	\$900,865,000
ODOT Facilities	341,000,000	240,100,000	80,870,000
DPS Facilities	140,285,000	140,285,000	<u>9,370,000</u>
		Total:	\$991,105,000
<u>Federal Transportation Grants</u>			
ODOT GARVEE Highway(l)	n.a.	\$1,988,170,000	\$718,985,000

- (a) Excludes refunding bonds; includes bonds refunded.
- (b) Excludes bonds refunded; includes refunding bonds; after June 1, 2016 scheduled principal payments.
- (c) Not more than \$100,000,000 may be outstanding at any time.
- (d) Not more than \$3,750,000,000 may be issued with the annual issuance currently limited to no more than \$150,000,000 in any Fiscal Year plus any obligations unissued from previous Fiscal Years. See **Recent Debt Authorizations** below for additional \$1,875,000,000 constitutional authorization for this purpose approved by the voters in May 2014.
- (e) Includes adjustable rate bonds.
- (f) Not more than \$50,000,000 may be issued in any Fiscal Year and not more than \$200,000,000 may be outstanding at any time.
- (g) Not more than \$50,000,000 may be issued in any Fiscal Year and not more than \$400,000,000 may be outstanding at any time.
- (h) Not more than \$1,200,000,000 may be issued with the annual issuance now limited to no more than \$175,000,000 in any Fiscal Year plus any obligations unissued from previous Fiscal Years.
- (i) Constitutional authorization was self-implementing and did not require further General Assembly authorization. No more obligations may be issued under this authorization.
- (j) See discussion above of “availability payments” under ODOT’s first public-private agreement, which payments are expected to be made from biennial appropriations of non-GRF funds available to ODOT and remaining after the payment of debt service on highway general obligations, special obligations and GARVEE bonds shown below.
- (k) Not more than \$220,000,000 may be issued in any Fiscal Year plus any amount unissued from previous Fiscal Years, and not more than \$1.2 billion may be outstanding at any time.
- (l) Debt service on these “GARVEE” bonds is paid from federal transportation grants apportioned to the State (Title 23 of the U.S. Code).

The following table shows total Fiscal Year debt service on outstanding State obligations currently payable from the GRF, including the Bonds:

Annual Debt Service Requirements on State Obligations Paid from the GRF

FY	General Obligations			Special Obligations			Total GRF Debt Service		
	Education(a)	Infra-structure(b)	All Other(c)	DAS Facilities	DRC Facilities	All Other(d)	Principal	Interest	Total
2016	\$614,496,157	\$230,118,876	\$172,450,020	\$97,478,700	\$82,443,256	\$118,941,428	\$895,198,600	\$420,729,836	\$ 1,315,928,436
2017	615,453,894	230,218,806	196,160,000	92,460,367	79,329,803	107,597,618	918,175,000	403,045,489	1,321,220,489
2018	595,774,478	217,890,414	171,237,987	93,104,889	70,558,594	101,033,705	882,290,000	367,310,066	1,249,600,066
2019	606,143,049	200,278,912	154,846,905	82,388,874	62,154,875	86,207,536	862,690,000	329,330,152	1,192,020,152
2020	604,716,842	188,744,584	142,135,724	74,990,436	49,709,313	74,412,710	843,060,000	291,649,608	1,134,709,608
2021	597,396,583	177,782,180	117,885,664	74,437,338	49,681,863	59,648,634	823,045,000	253,787,261	1,076,832,261
2022	560,556,694	169,551,575	96,171,265	64,500,222	49,422,588	47,487,712	771,015,000	216,675,056	987,690,056
2023	493,698,238	160,142,889	84,142,990	58,774,388	45,367,763	47,491,326	707,725,000	181,892,593	889,617,593
2024	394,472,020	142,323,196	63,627,488	48,685,597	43,484,144	42,208,195	584,090,000	150,710,639	734,800,639
2025	332,087,031	133,980,129	42,809,927	43,151,150	38,920,081	35,500,826	501,885,000	124,564,143	626,449,143
2026	262,376,241	121,264,856	36,744,249	20,148,323	15,195,206	17,750,575	368,215,000	105,264,450	473,479,450
2027	206,771,948	106,550,846	19,788,159	20,144,569	15,196,181	14,775,675	293,605,000	89,622,378	383,227,378
2028	185,687,132	106,433,646	16,297,350	20,143,813	15,198,181	13,352,675	280,905,000	76,207,798	357,112,798
2029	185,904,093	97,695,935	11,438,000	20,149,668	15,207,181	13,350,125	280,680,000	63,065,002	343,745,002
2030	186,107,280	80,642,402	7,906,625	15,860,918	12,378,931	13,344,969	266,125,000	50,116,125	316,241,125
2031	186,365,127	80,471,191	4,520,250	12,480,831	12,377,213	7,728,000	266,600,000	37,342,611	303,942,611
2032	162,044,913	54,775,450	-0-	12,486,181	9,081,250	-0-	212,385,000	26,002,794	238,387,794
2033	94,809,725	45,799,625	-0-	10,048,344	9,081,250	-0-	143,010,000	16,728,944	159,738,944
2034	71,164,625	34,983,125	-0-	5,975,800	9,082,125	-0-	111,385,000	9,820,675	121,205,675
2035	47,310,500	11,379,000	-0-	5,974,800	5,522,625	-0-	65,925,000	4,261,925	70,186,925
2036	23,124,000	11,377,500	-0-	-0-	5,524,750	-0-	39,050,000	976,250	40,026,250
							\$10,117,058,600	\$3,219,103,795	\$13,336,162,396

- (a) Consists of common schools and higher education general obligation bonds and includes estimated debt service on adjustable rate bonds for common schools.
- (b) Includes estimated debt service on adjustable rate bonds.
- (c) Includes natural resources, coal development, conservation, research and development, site development and veteran's compensation general obligation bonds.
- (d) Includes lease-rental bonds for mental health, parks and recreation, cultural & sports facilities and Department of Youth Services. Also includes lease-rental bonds previously issued for higher education facilities.

The following table shows total Fiscal Year debt service on certain outstanding State obligations currently payable from the indicated non-GRF revenues.

Annual Debt Service Requirements on State Obligations Paid from Non-GRF Revenues

FY	Highway User Receipts			GARVEE Federal Transportation Grants(b)
	Highway G.O.	ODOT/DPS Facilities(a)	Total	
2016	\$119,839,303	\$10,552,410	\$130,391,713	\$179,290,346
2017	127,398,654	10,549,475	137,948,129	153,282,259
2018	111,840,730	10,554,100	122,394,830	127,084,997
2019	110,367,583	10,557,000	120,924,583	121,929,012
2020	108,302,112	9,708,200	118,010,312	117,387,296
2021	106,655,092	9,712,750	116,367,842	82,825,928
2022	104,300,702	8,144,500	112,445,202	38,041,625
2023	102,155,331	8,147,000	110,302,331	37,264,838
2024	99,967,152	8,146,250	108,113,402	36,521,650
2025	83,080,270	8,146,750	91,227,020	35,775,750
2026	54,724,550	8,142,750	62,867,300	-0-
2027	53,138,800	8,143,750	61,282,550	-0-
2028	51,545,300	8,143,750	59,689,050	-0-
2029	34,887,800	8,142,000	43,029,800	-0-
2030	16,720,000	8,142,750	24,862,750	-0-
2031	15,960,000	-0-	15,960,000	-0-

(a) Lease rental payments are paid from highway user receipts for these Ohio Department of Transportation and Department of Public Safety facilities.

(b) Debt service paid from federal transportation grants apportioned to the State under Title 23 of the U.S. Code.

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The following table shows the principal amount of those obligations that are currently scheduled to be outstanding as of July 1 of the indicated years, including the Bonds:

<u>Year</u>	Obligations Payable from the GRF			Non-GRF Obligations
	<u>Education(a)</u>	<u>Other GO(b)</u>	<u>Special Obligations(c)</u>	<u>Highway User Receipts(d)</u>
2016	\$4,834,845,000	\$2,757,675,000	\$1,629,340,000	\$991,105,000
2020	3,183,690,000	1,639,430,000	892,525,000	654,255,000
2025	1,325,765,000	714,735,000	287,385,000	233,890,000
2030	525,210,000	219,085,000	94,060,000	15,200,000

- (a) Includes obligations for common school and higher education capital facilities.
- (b) Includes natural resources, coal development, infrastructure improvement, conservation, research and development, site development and veterans compensation general obligation bonds.
- (c) Includes lease-rental obligations for various state capital facilities.
- (d) Includes general obligations for highways and lease-rental obligations for ODOT and DPS facilities.

The following tables show certain historical debt information and comparisons. These tables include only outstanding obligations of the State for which debt service is paid from the GRF.

<u>Fiscal Year</u>	<u>Principal Amount Outstanding</u>	<u>Outstanding Debt Per Capita</u>	<u>Outstanding Debt as % of Annual Personal Income</u>
1980	\$1,991,915,000	\$184	1.86%
1990	3,707,054,994	342	1.83
2000	6,308,680,025	556	1.94
2010	8,586,655,636	744	2.05
2011	8,996,752,848	779	2.01
2012	9,760,505,915	845	2.10
2013	9,263,358,266	800	1.96
2014	9,517,346,998	821	1.94
2015	9,354,508,600	805(a)	1.85(b)

<u>Fiscal Year</u>	<u>Debt Service Payable</u>	<u>Total GRF Revenue and Net State Lottery Proceeds</u>	<u>Debt Service as % of GRF Revenue and Lottery Proceeds</u>	<u>Debt Service as % of Annual Personal Income</u>
1980	\$187,478,382	\$4,835,670,223	3.88%	0.18%
1990	488,676,826	12,230,681,298	4.00	0.24
2000	871,313,814	20,711,678,217	4.21	0.27
2010	710,284,236*	24,108,466,000**	2.95	0.17
2011	755,023,015*	26,777,133,000**	2.82	0.17
2012	692,776,090*	27,956,513,000	2.48	0.15
2013	1,204,775,861	30,361,815,000	3.97	0.26
2014	1,237,701,225	30,137,140,000	4.11	0.25
2015	1,278,258,664	32,463,100,000	3.94	0.25(b)

(a) Based on July 2015 population estimate.

(b) Based on preliminary 2015 personal income data.

* Reduction is due in large part to the restructuring of certain GRF debt service payments resulting in net savings of \$416.8 million in Fiscal Year 2010, \$336.9 million in Fiscal Year 2011, and \$449.3 million in Fiscal Year 2012.

** Excludes federal funds from the American Recovery and Reinvestment Act of 2009.

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Recent Debt Authorizations

Only a portion of State capital needs can be met by direct GRF appropriations, so additional State borrowing for capital and other purposes has been and will continue to be required. For the 2017-18 capital biennium, the General Assembly approved \$2.62 billion in new capital appropriations, with \$2.184 billion of those new capital appropriations to be funded by GRF-supported debt authorizations, \$100 million to be funded from non-GRF debt authorizations (for Ohio Department of Transportation maintenance facilities) and the remaining \$338 million to be funded from cash. All of the following additional GRF-supported borrowing authorizations to fund those appropriations are reflected in the preceding tables:

General Obligation

- \$400,000,000 for capital improvements for elementary and secondary public schools.
- \$332,000,000 for local infrastructure projects.
- \$480,000,000 for higher education facilities.
- \$15,000,000 for natural resources facilities.
- \$100,000,000 for conservation purposes.
- \$7,000,000 for coal development purposes.

Special Obligation

- \$142,000,000 for prisons and local jails.
- \$28,000,000 for youth services facilities.
- \$102,000,000 for State administrative facilities.
- \$48,000,000 for cultural facilities (including both arts and sports facilities).
- \$54,000,000 for mental health facilities (including local projects).
- \$217,000,000 for parks and recreation facilities (including local projects).

In addition to the above \$400 million general obligation debt authorization for elementary and secondary public school improvements, the General Assembly also appropriated \$100 million to be funded from a GRF cash transfer and \$50 million from State lottery profits for elementary and secondary public school capital improvements.

Recent constitutional authorizations are:

- 2014 - authorizes an additional \$1.875 billion of general obligation debt for public infrastructure as a ten-year extension of the existing local government infrastructure program authorized in 2005, with an increase in the annual issuance amount from \$150 million to \$175 million in the first five Fiscal Years and \$200 million in each Fiscal Year thereafter.
- 2010 - authorizes the issuance of \$700 million of State general obligation debt to renew and continue programs for research and development in support of Ohio industry, commerce, and business, with those obligations not subject to the 5% debt service cap described above. The authorization is in addition to the below-referenced 2005 constitutional amendment for the same purpose. The amount of all State general obligations that may be issued for, and the amounts of proceeds from those State general obligations that may be committed to, those research and development purposes, are limited to no more than \$450 million total for the period including State Fiscal Years 2006 through 2011, no more than \$225 million in Fiscal Year 2012 and no more than \$175 million in any Fiscal Year thereafter, plus any amounts that in any prior Fiscal Year could have been but were not issued.
- 2009 – authorized the issuance of State general obligation debt to provide compensation to persons who have served in active duty in the United States armed forces at any time during the Persian Gulf, Afghanistan, and Iraq conflicts, with those obligations not subject to the 5% direct obligation debt service cap described above. Not more than \$200 million in obligations could have been issued no later than December 31, 2013.
- 2008 – authorizes the issuance of State bonds for land conservation and revitalization purposes (including statewide brownfields clean-up). For each of the two purposes, the authorization is for not more than \$50 million in principal amount to be issued in any Fiscal Year and not more than \$200 million to be outstanding at any time. The bonds for conservation purposes are general obligations, and those for revitalization purposes are special obligations payable from revenues and receipts designated by the General Assembly (previously a portion of the State’s net liquor profits; see **FISCAL**

MATTERS – Recent and Current Finances – Recent Biennia - 2012-13). The authorization is in addition to the 2000 constitutional amendment for the same purposes.

- 2005 – authorizes the issuance over ten years of \$500 million of State general obligation debt in support of research and development, and \$150 million of State general obligation debt for the development of sites for industry, commerce, distribution and research and development, with those obligations not subject to the 5% debt service cap described above. Also authorizes an additional \$1.35 billion of general obligation debt for public infrastructure as a ten-year extension of the existing local government infrastructure program, with an increase in the annual issuance amount from \$120 million to \$150 million in the last five Fiscal Years, which continues to be subject to that 5% debt service cap.
- 2000 – authorizes the issuance of State bonds for land conservation and revitalization purposes (including statewide brownfields clean-up). For each of the two purposes, the amendment authorizes not more than \$50 million in principal amount to be issued in any Fiscal Year and not more than \$200 million to be outstanding at any time. The bonds for conservation purposes are general obligations, and those for revitalization purposes are special obligations payable from revenues and receipts designated by the General Assembly (previously a portion of the State’s net liquor profits; see **FISCAL MATTERS – Recent and Current Finances – Recent Biennia - 2012-13).**
- 1999 – authorizes State general obligation debt to pay costs of facilities for a system of common schools throughout the state and for state-supported and state-assisted institutions of higher education. The amendment also provides for the 5% direct obligation debt service cap described above.
- 1995 – authorizes additional highway bonds and extended the local infrastructure bond program. For the latter, it authorized an additional \$1.2 billion of State full faith and credit obligations to be issued over 10 years, with not more than \$120 million to be issued in any Fiscal Year. The highway finance portion authorizes not more than \$1.2 billion to be outstanding at any time and not more than \$220 million to be issued in any Fiscal Year.
- 1994 – pledges the State's full faith and credit and taxing power to meet certain guarantees under the State's tuition credit program, a program that provides for the purchase of tuition credits which are guaranteed to cover a specified amount when applied to tuition and other eligible higher education costs. Under the amendment, to secure the tuition guarantees, the General Assembly shall appropriate money sufficient to offset any deficiency that occurs in the trust fund, at any time necessary to make payment of the full amount of any tuition payment or refund required by a tuition payment contract.
- 1990 – authorizes greater State and political subdivision participation in the provision of individual and family housing. This supplements the previous constitutionally authorized loans-for-lenders and other housing assistance programs, financed in part with State revenue bonds. The amendment authorizes the General Assembly to provide for State assistance for housing in a variety of ways, including State borrowing for the purpose by the issuance of obligations secured by a pledge of all or such portion of State revenues or receipts as it authorizes (but not by a pledge of the State’s full faith and credit).
- 1985 – authorizes the issuance of general obligation debt to finance grants or make or guarantee loans for research and development of coal technology that will encourage the use of Ohio coal. Those grants or loans are available to any individual, association, or corporation doing business in the State or to any educational or scientific institution located in the State. Not more than \$100 million may be outstanding at any time.

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ECONOMY AND EMPLOYMENT

Although manufacturing (including auto-related manufacturing) in Ohio remains an integral part of the State's economy, the greatest growth in Ohio's economy in recent years has been in the non-manufacturing sectors. Ohio's preliminary 2014 economic output, as measured by gross state product (GSP), totaled \$583.3 billion, 3.37% of the national GDP and seventh largest among the states. The State ranks fourth within the manufacturing sector as a whole (\$98.7 billion) and fourth in durable goods (\$55.0 billion). As a percent of Ohio's preliminary 2014 GSP, manufacturing was responsible for 16.9%, with 21.8% attributable to the goods-producing sectors and 34.6% to the business services sectors, including finance, insurance and real estate. Ohio is the eighth largest exporting state with 2015 merchandise exports totaling \$50.7 billion. The State's leading export products are machinery (including electrical machinery), motor vehicles and aircraft/spacecraft, which together accounted for 50.5% of that total.

Payroll employment in Ohio, in a diversifying employment base, decreased in 2001 through 2003, increased in 2004 through 2006, decreased in 2007 through 2010, and increased in 2011 through 2015. In the last three decades, there has been a shift toward the services industry, with manufacturing employment decreasing since its 1969 peak. The "non-manufacturing" sector employs approximately 87% of all non-farm payroll workers in Ohio. The changing mix of employment sectors nationally and in Ohio are shown in the following tables.

Ohio Nonfarm Payroll Jobs by Industry Type Not Seasonally Adjusted (in 000)

	<u>1980</u>	<u>1990*</u>	<u>2000*</u>	<u>2010*</u>	<u>2015*</u>
Mining & Logging*.....	31	18	13	11	14
Construction.....	167	192	246	169	200
Manufacturing.....	1,264	1,060	1,021	621	687
Trade, Transportation & Public Utilities*...	1,180	963	1,115	948	1,013
Financial Activities.....	n.a.	101	107	78	72
Information*.....	204	255	305	277	292
Services.....	831	1,172	1,549	1,672	1,835
Leisure & Hospitality*.....	n.a.	400	483	475	540
Government.....	<u>690</u>	<u>722</u>	<u>785</u>	<u>786</u>	<u>769</u>
TOTAL.....	4,367	4,882	5,625	5,036	5,421

Source: U.S. Department of Labor, Bureau of Labor Statistics, National and State Current Employment Statistics.

* Reflects change in the bases for industry classification from the 1987 Standard Industrial Classification System (SIC) to the 2002 North American Industry Classification System (NAICS). Data for 1990 and 2000 has been adjusted to reflect this change.

Distribution of Nonfarm Payroll Jobs by Industry Type (%)

	<u>1980</u>		<u>1990*</u>		<u>2000*</u>		<u>2010*</u>		<u>2015*</u>	
	<u>Ohio</u>	<u>U.S.</u>	<u>Ohio</u>	<u>U.S.</u>	<u>Ohio</u>	<u>U.S.</u>	<u>Ohio</u>	<u>U.S.</u>	<u>Ohio</u>	<u>U.S.</u>
Mining & Logging*.....	0.7	1.1	0.4	0.7	0.2	0.5	0.2	0.5	0.3	0.6
Construction.....	3.8	4.8	3.9	4.8	4.4	5.1	3.4	4.2	3.7	4.5
Manufacturing.....	29.0	22.4	21.7	16.2	18.2	13.1	12.3	8.8	12.7	8.7
Trade, Transportation & Public Utilities*.....	27.0	28.2	19.7	20.7	19.8	19.9	18.8	18.9	18.7	19.0
Information*.....	n.a.	n.a.	2.1	2.5	1.9	2.7	1.5	2.1	1.3	1.9
Financial Activities.....	4.7	5.7	5.2	6.0	5.4	5.9	5.5	5.9	5.4	5.7
Services.....	19.0	19.8	24.0	23.9	27.5	28.1	33.2	32.2	33.9	33.4
Leisure & Hospitality*.....	n.a.	n.a.	8.2	8.5	8.6	9.0	9.4	10.0	10.0	10.7
Government.....	15.8	18.0	14.8	16.8	14.0	15.7	15.6	17.3	14.2	15.5

Source: U.S. Department of Labor, Bureau of Labor Statistics, National and State Current Employment Statistics. The distribution percentages are as calculated by OBM.

* Reflects change in the bases for industry classification from the 1987 Standard Industrial Classification System (SIC) to the 2002 North American Industry Classification System (NAICS). Data for 1990 and 2000 has been adjusted to reflect this change.

Ohio and U.S. unemployment rates have been as follows:

Average Monthly Unemployment Rates (Seasonally Adjusted)

<u>Year</u>	<u>Ohio</u>	<u>U.S.</u>
1980.....	8.4%	7.1%
1990.....	5.6	5.6
2000.....	4.0	4.0
2005.....	5.9	5.1
2006.....	5.4	4.6
2007.....	5.6	4.6
2008.....	6.4	5.8
2009.....	10.3	9.3
2010.....	10.3	9.6
2011.....	8.8	8.9
2012.....	7.4	8.1
2013.....	7.5	7.4
2014.....	5.7	6.2
2015.....	4.9	5.3
2016 January.....	4.9	4.9
February.....	4.9	4.9
March.....	5.1	5.0
April.....	5.2	5.0

Source: Ohio Department of Job and Family Services, Labor Market Information.

The following are the private sector employers that had the highest number of full-time equivalent employees (estimated and rounded) in Ohio in 2016:

OHIO'S TOP 25 PRIVATE SECTOR EMPLOYERS – 2016

<u>Company</u>	<u>Estimated Employment Headcount</u>	<u>Sector</u>
Cleveland Clinic Health System	48,200	Health Care
Wal-Mart Stores, Inc.	46,600	Retail General Merchandiser
Kroger Company	41,900	Retail Food Stores
Mercy Health	31,300	Health Care
University Hospitals Health System	26,000	Health Care
JPMorgan Chase & Co.	21,000	Financial Services
Giant Eagle, Inc.	20,000	Retail Food Stores
Ohio Health	19,950	Health Care
General Electric Company	16,000	Aerospace/Electrical Equipment
Cincinnati Children's Hospital	15,000	Health Care
Nationwide Mutual Insurance Co.	14,800	Finance, Insurance
Honda Motor Company	14,300	Motor Vehicles
Premier Health Partners	14,000	Health Care
ProMedica Health System	14,000	Health Care
United Parcel Service, Inc.	13,500	Transportation Air Delivery
Kettering Health Network	13,100	Health Care
Home Depot, Inc.	12,000	Retail Home Improvement
Meijer, Inc.	12,000	Retail General Merchandiser
TriHealth, Inc.	11,800	Health Care
Lowe's Companies, Inc.	11,760	Retail Home Improvement
Bob Evans Farms, Inc.	11,400	Restaurants
Procter & Gamble Company	10,700	Soaps and Cosmetics
UC Health	10,000	Health Care
General Motors Corporation	9,950	Motor Vehicles
Marathon Petroleum Corporation	9,750	Retail Gas Stations

Boldface indicates headquartered in Ohio.

Source: Development Services Agency, Office of Research, April 2016.

POPULATION

Ohio's 2010 decennial census population of 11,536,504 indicated a 1.6% population growth over 2000 and ranked Ohio seventh among the states in population. The following tables show selected census figures.

Ohio Population — Total and by Age Group

Year	Total	Rank Among States	Decennial Growth Rate	1-19 Years	20-64 Years	65 and Over
1970	10,652,017	6	9.7%	4,124,400	5,539,600	993,500
1980	10,797,630	6	1.4	3,502,900	6,125,200	1,169,500
1990	10,847,115	7	0.5	3,141,000	6,299,100	1,407,000
2000	11,353,140	7	4.7	3,216,000	6,629,400	1,507,800
2010	11,536,504	7	1.6	3,067,126	6,847,363	1,622,015

* July 2015 Census population estimate is 11,613,423.

Source: U.S. Census Bureau Web Site, Population Estimates.

Population of Ohio Metropolitan Areas(a)

	1970	1980	1990	2000	2010
Cleveland.....	2,063,729	1,898,825	2,202,069(b)	2,250,871(b)	2,077,240(b)
Cincinnati	1,106,821	1,100,983	1,526,092(c)	1,646,395(c)	2,130,151(d)
Columbus.....	1,017,847	1,093,316	1,345,450(e)	1,540,157(e)	1,836,536(e)
Dayton	852,531	830,070	951,270(f)	950,558(f)	979,835(f)
Akron.....	679,239	660,328	657,575	694,960	703,200
Toledo.....	643,443	656,940	614,128	618,203	651,429
Youngstown-Warren.....	537,124	531,350	600,895(g)	594,746(g)	565,773(g)
Canton.....	393,789	404,421	394,106	406,934	404,422
Lorain-Elyria	256,843	274,909	(b)	(b)	(b)
Hamilton-Middletown	226,207	258,787	291,479	332,807	(d)
Lima.....	210,074	218,244	154,340	155,084	106,331
Mansfield.....	129,997	131,205	174,007(g)	175,818(g)	124,475
Steubenville	96,193	91,564	142,523(h)	132,008(h)	124,454(h)

(a) SMSAs in 1970 & 1980, MSAs in 1990 and 2000 (PMSA's for Cleveland, Cincinnati, Akron, and Hamilton-Middletown).

(b) Lorain-Elyria included with Cleveland.

(c) Includes 12 counties (two in Indiana and six in Kentucky).

(d) Includes 15 counties (three in Indiana and seven in Kentucky); Includes Hamilton-Middletown.

(e) Newark added.

(f) Springfield added.

(g) Includes three counties.

(h) Weirton added; includes two counties in West Virginia.

Source: U.S. Census Bureau Web Site, Metropolitan Area Population Estimates.

AGRICULTURAL AND RESOURCES BASES

With 14.0 million acres (of a total land area of 26.4 million acres) in farmland and an estimated 75,000 individual farms, agriculture combined with related agricultural sectors is an important segment of Ohio's economy. Ohio's 2013 crop production value of \$7.4 billion represented 3.4% of the U.S. total value. Ohio's 2013 livestock production value of \$3.5 billion represented 1.9% of the U.S. total value. Ohio accounts for more than 4.0% of total U.S. cash receipts for corn and soybeans. In 2013, Ohio's agricultural sector output (consisting of crops, livestock, poultry and dairy, and services and forestry, and all farm-related income) totaled \$12.7 billion. Ohio purchased inputs (feed, seed, chemicals, fertilizer, livestock, utilities, labor, and machinery) totaled \$6.2 billion. The net farm income on Ohio farms in 2013 was \$3.6 billion.

The availability of natural resources, such as water and energy, is of vital nationwide concern. Ohio has large quantities of these important natural resources. With Lake Erie and the Ohio River on its borders, and many lakes and streams throughout the State, water is readily available for all uses. Additionally, Ohio has sizable coal resources ranking tenth among the states in coal reserves and tenth in coal production in 2013.

STATE EMPLOYEES AND COLLECTIVE BARGAINING AGREEMENTS

Since 1985, the number of regular State employees (excluding employees who are not paid by State warrant such as state university employees) has ranged from a high of 68,573 in 1994 to a low of 51,886 at the end of Fiscal Year 2015. The State engages in collective bargaining with five employee unions representing 14 bargaining units, and generally operates under three-year agreements. The current collective bargaining agreements with the Ohio Civil Service Employees Association (OCSEA) and Service Employees International Union District 1199, the largest State employee unions representing a combined approximate 32,000 employees, expire on February 28, 2018 and April 30, 2018, respectively. The current collective bargaining agreements with the State Council of Professional Educators/Ohio Education Association and Fraternal Order of Police of Ohio, representing a combined approximate 1,020 State employees, expire on May 31, 2018 and June 30, 2018, respectively. The collective bargaining agreement with the Ohio State Troopers Association, representing approximately 1,750 State employees, expired on June 30, 2015 and the State is maintaining the same terms and conditions until a new three-year agreement has been negotiated.

RETIREMENT SYSTEMS

The State has established five public retirement systems to provide retirement, disability retirement and survivor benefits, and other post-employment benefits such as retiree health care. None of these benefits are guaranteed under the Ohio Constitution or any other State law, or subject to bargaining under the State's current public employee collective bargaining law.

The Public Employees Retirement System (PERS), the largest of the five, covers both State and local public employees. The State Teachers Retirement System (STRS) and School Employees Retirement System (SERS) primarily cover school district and public higher education employees. The Highway Patrol Retirement System (HPRS) covers State troopers, and the Ohio Police and Fire Pension Fund (OP&F) covers local safety forces. Full financial information for each retirement system can be found on its website in that system's Comprehensive Annual Financial Report (CAFR).

The five retirement systems began reporting pensions in accordance with GASB Statement No. 67, Financial Reporting for Pension Plans, in Fiscal Year 2014, and the State began reporting pensions in accordance with GASB Statement No. 68, Accounting and Financial Reporting for Pensions, in Fiscal Year 2015. The five retirement systems and the State are also preparing to implement GASB Statement No. 74, Financial Reporting for Postemployment Benefit Plans Other Than Pension Plans, and GASB Statement No. 75, Accounting and Financial Reporting for Postemployment Benefits Other Than Pensions.

The retirement systems were created by and operate pursuant to State law. As reflected in the 2012 pension reform acts discussed below, the General Assembly has the power to amend the structure and benefit levels, impose or revise contribution rates or amounts, and to make other changes. The systems have never been subject to the funding and vesting requirements of the federal Employee Retirement Income Security Act (ERISA). Federal law requires employees hired on or after April 1, 1986 to participate in the Medicare program, with matching employer and employee contributions, each now 1.45% of the wage base. Otherwise, State employees covered by a State retirement system are not currently covered under the federal Social Security Act. Congress has from time to time considered legislation relating to public sector retirement funds and to other aspects of public employee retirement.

Funding for the retirement systems is provided by a combination of public employer and employee contributions based on percentages of each employee's compensation, with the employees' contributions being deducted from their paychecks. Those contribution percentages are either established in State law or by the retirement system board subject to a maximum contribution amount established in State law. With the exception of contributions for PERS law enforcement and public safety personnel, and the increased employee contributions for STRS, OP&F and HPRS included in the 2012 pension reform acts described below, the current contribution percentages for each system (set forth in the table on the next page) reflect the maximums permitted under State law.

In 1968, the Ohio General Assembly created the Ohio Retirement Study Commission (ORSC) to advise and inform them on all matters relating to the benefits, funding, investment, and administration of the five statewide retirement systems. The ORSC is composed of nine voting members: three members of the House appointed by the Speaker; three members of the Senate appointed by the President; and three members appointed by the Governor (one representing the State, one representing local governments, and the third

representing public education institutions). The five executive directors of the retirement systems also serve as nonvoting members of the ORSC.

Under State law, each retirement system's board is required to establish a period of not more than thirty years to amortize its unfunded actuarial accrued pension liability (UAAL). If in any year the period required to amortize that UAAL exceeds thirty years, the board must prepare and submit to the ORSC and the applicable committees in the Ohio General Assembly, a plan to reduce that amortization period to not more than thirty years. Based on their most recent reporting years reflected in the table below under **Pension Benefits**, all of the retirement systems meet the 30-year funding requirement, with the number of years to fully amortize UAAL at twenty-one years for PERS, twenty-seven years for SERS, twenty-eight years for STRS, twenty-nine years for HPRS, and thirty years for OP&F. Prior to the 2012 pension reform acts described below, the board of each of the five retirement systems had approved and submitted to the ORSC and the applicable Ohio General Assembly committees a plan to reduce or maintain its amortization period at not more than thirty years. Pursuant to this continuing requirement, the OP&F board increased (effective January 1, 2014) contributions to its pension fund by reducing from 2.85% to 0.5% the amount of employer contributions directed to health care and redirecting the 2.35% difference to pensions, and the STRS board increased (effective July 1, 2014) contributions to its pension fund by reducing from 1.0% to 0.0% the amount of employer contributions directed to healthcare and redirecting the 1.0% difference to pensions.

After extensive review, the General Assembly in September 2012 enacted, and the Governor signed into law effective January 7, 2013, five pension reform acts to implement with modifications plans previously submitted by the five retirement systems to reduce or maintain their UAAL periods to or at not more than thirty years. The reform act for PERS made changes including, among others, increasing the years of service and eligibility age necessary to retire with full benefits, increasing from three to five the number of years used in determining "final average salary" for purposes of calculating retirement benefits, reducing the post-retirement cost of living adjustment, and increasing the minimum salary threshold required to earn full-time service credit for public employee eligibility to participate in the system. The other reform acts made similar changes to STRS, SERS, OP&F and HPRS, and enacted phased increases in the employee contribution rate for STRS (from 10% to a maximum of 14% by July 2016) and OP&F (from 10% to a maximum of 12.25% in July 2015). The HPRS board was authorized to increase employee contributions up to a maximum of 14% from the current 10% beginning in July 2013, and it has implemented this authorization by increasing the employee contribution rate to 11.5% for 2014 and to 12.5% for 2015 and thereafter. With the exception of PERS, the reform acts also authorize each retirement system's board to adjust certain pension benefits levels within limits without General Assembly approval. As reflected above, these reform acts did not change the requirement that each system establish a period of not more than thirty years to amortize its pension UAAL and prepare and submit to the ORSC and the Ohio General Assembly a plan to reduce that amortization period if it exceeds thirty years.

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Retirement Contributions

The State makes its employer contributions based on a percent of salary for each State employee that is an active member of a state retirement system. Currently, nearly 96% of State employees are members of PERS, about 3.1% are in HPRS and about 1.3% are in STRS. The following table summarizes State employer and employee contributions to those retirement systems with State employee members (\$ in millions):

State Fiscal Year	<u>PERS</u>		<u>STRS</u>		<u>HPRS</u>		Total Contributions
	Employer/Employee Amount	Pct. of Salary(a)	Employer/Employee Amount	Pct. of Salary	Employer/Employee Amount	Pct. of Salary	
2010	\$406.5/\$283.0	14.0%/10.0%	\$7.4/\$5.3	14.0%/10.0%	\$24.4/\$9.3	26.5%/10.0%	\$735.8
2011(b)	414.4/289.0	14.0/10.0	7.2/5.1	14.0/10.0	25.2/9.5	26.5/10.0	750.3
2012(c)	392.3/273.8	14.0/10.0	6.6/4.7	14.0/10.0	25.0/9.4	26.5/10.0	711.8
2013(c)	385.8/269.1	14.0/10.0	6.2/4.4	14.0/10.0	26.1/9.8	26.5/10.0	701.3
2014	384.9/268.8	14.0/10.0	5.9/4.6	14.0/11.0	26.5/10.7	26.5/11.5(d)	701.4
2015	383.7/266.8	14.0/10.0	5.8/4.9	14.0/12.0	26.7/12.0	26.5/12.5(d)	699.9

(a) Reflects PERS state and local contribution rates only. PERS law enforcement employer/employee contribution rate was 17.87%/11.1% in Fiscal Year 2010, increasing gradually to 18.1%/13.0% in Fiscal Year 2014, and public safety was 17.87%/10.5% in Fiscal Year 2010, increasing gradually to 18.1%/12.0% in Fiscal Year 2013.

(b) Fiscal Year 2011 contributions include 27 pay periods.

(c) Decline in contributions for Fiscal Years 2012 through 2015 is due to a reduction in the State workforce over this period.

(d) HPRS employee percent of salary was 10.0% in calendar year 2013, 11.5% in calendar year 2014 and 12.5% in calendar year 2015.

Source: Contributions based on percent of payroll expenses from State of Ohio accounting system records.

The State also has funded and continues to fund a subsidy to the OP&F system to pay for survivor benefits provided in law and not otherwise funded. The aggregate subsidies were \$41.1 million in the 2012-13 biennium and \$40.9 million in the 2014-15 biennium, and are appropriated at \$40.9 million in the 2016-17 biennium. All State employer contributions are subject to appropriation in each State budget and are included in the appropriations for each department or agency's personnel costs.

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Pension Benefits

The following table summarizes State and local membership and financial data for each of the retirement systems for the most recent year reported by the particular system (\$ in millions):

Valuation as of:	<u>PERS</u> 12/31/14	<u>STRS</u> 07/01/15	<u>SERS(a)</u> 06/30/15	<u>OP&F(b)</u> 01/01/15	<u>HPRS</u> 12/31/14
Active Members.....	329,773	164,925	122,855	27,602	1,622
Retirees and Beneficiaries	208,553	158,116	74,372	27,963	1,558
Employer/Employee Contributions (% of Salary) (c)...	14.0/10.0(d)	14.0/13.0	14.0/10.0	(e)	26.5/12.5
Active Member Payroll	\$12,932.5	\$10,948.6	\$2,845.4	\$1,986.6	\$99.2
Market Value of Assets (MVA).....	\$77,263.2	\$70,432.6	\$12,797.2	\$13,453.4	\$740.7
Actuarial Value of Assets (AVA) (f)	\$74,865.0	\$68,656.0	\$12,467.0	\$13,029.3	\$712.3
Actuarial Accrued Liability (AAL) (g)	\$89,285.0	\$99,014.7	\$18,122.0	\$18,395.6	\$1,012.8
Funding Ratio (AVA to AAL %, (MVA to AAL %)) ..	83.8 (86.5)	69.3 (71.1)	68.8 (70.6)	70.8 (73.1)	70.3 (73.1)
Unfunded Actuarial Accrued Liability (UAAL).....	\$14,420.0	\$30,358.7	5,655.0	\$5,366.3	\$300.5
UAAL to Active Member Payroll %	111.5	277.3	198.7	270.1	302.9
UAAL Funding Period (years) (h).....	21	28	27	30	29

(a) SERS information excludes Medicare Part B reimbursement which is considered a post-employment healthcare benefit reported in accordance with GASB Statement 43 for all data except MVA.

(b) Effective with the January 1, 2015 valuation, OP&F deferred retirement option plan balances are included in MVA, AVA, and AAL.

(c) For PERS and SERS, the maximum employer and employee contribution rates under law are 14.0% and 10.0%. For STRS and HPRS, the maximum employer and employee contributions rates are 14.0/14.0% and 26.5/14.0%, respectively. Each system's board annually determines the portion of the employer contribution, if any, that is directed to fund post-employment health care benefits.

(d) PERS state employer/employee contribution rate is 14.0/10.0%, local is 14.0/10.0%, law enforcement is 18.1/13.0%, and public safety is 18.1/12.0%. PERS state and local employer and employee contribution rates increased to their current statutory maximum of 14.0% and 10.0%, respectively, in calendar year 2008.

(e) Police is 19.5/11.88% and fire 24.0/11.88%. The employee rate of 11.88% is a blend of 11.50% from January 1 to July 1 and 12.25% from July 2 to December 31. OP&F employer and employee contribution rates increased to their current statutory maximum of 19.5/12.25% for police and 24.0/12.25% for fire.

(f) Recognizes assumed long-term investment returns fully each year (8.25% for OP&F, 8.00% for PERS and HPRS, and 7.75% for STRS and SERS). Differences between actual and assumed investment returns, subject to each system's market corridor limitation, are phased-in over a closed four-year period.

(g) Reflects an individual entry age normal actuarial cost method.

(h) UAAL funding period is calculated based on a closed period as a level percent of payroll, except for the portion of PERS members who participate in the member directed plan which uses a closed period as a level dollar of payroll.

Note: Valuation results reflect all legislative changes described above enacted in September 2012.

Sources: Retirement systems' CAFRs and annual actuarial valuations.

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The following table summarizes financial and funding information for each of the retirement systems for the five years previous to the current year information provided above as reported by the particular system (\$ in millions):

Retirement System Valuation Year-End	Actuarial Value of Assets (AVA)(a)	Actuarial Accrued Liability (AAL)(b)	Unfunded Actuarial Accrued Liability (UAAL)(c)	Funding Ratio (AVA to AAL)	Market Value of Assets (MVA)	Funding Ratio (MVA to AAL)	Active Member Payroll	UAAL Percent of Active Member Payroll
<u>PERS</u>								
12/31/13	\$71,411.2	\$86,644.6	\$15,233.4	82.4%	\$74,866.6	86.4%	\$12,331.0	123.5%
12/31/12	\$67,854.8	\$83,878.1	\$16,023.3	80.9%	\$67,854.9	80.9%	\$12,194.0	131.4%
12/31/11	\$65,436.1	\$84,529.7	\$19,093.6	77.4%	\$61,846.7	73.2%	\$12,399.0	154.0%
12/31/10	\$63,649.1	\$80,485.0	\$16,835.9	79.1%	\$63,649.1	79.1%	\$12,450.0	135.2%
12/31/09	\$57,629.4	\$76,555.0	\$18,925.6	75.3%	\$57,733.8	75.4%	\$12,548.3	150.8%
<u>STRS</u>								
07/01/14	\$66,657.2	\$96,167.1	\$29,509.9	69.3%	\$70,988.7	73.8%	\$10,725.3	275.1%
07/01/13	\$62,590.8	\$94,366.7	\$31,775.9	66.3%	\$64,706.0	68.6%	\$10,765.6	295.2%
07/01/12	\$59,489.5	\$106,301.8	\$46,812.3	56.0%	\$60,693.6	57.1%	\$10,879.1	430.3%
07/01/11	\$58,110.5	\$98,766.2	\$40,655.7	58.8%	\$63,116.7	63.9%	\$11,097.6	366.3%
07/01/10	\$55,946.3	\$94,720.7	\$38,774.4	59.1%	\$54,140.4	57.2%	\$11,057.3	350.7%
<u>SERS(d)</u>								
06/30/14	\$11,903.0	\$17,492.0	\$5,589.0	68.0%	\$12,820.9	73.3%	\$2,759.3	202.6%
06/30/13	\$11,007.0	\$16,860.0	\$5,853.0	65.3%	\$11,300.5	67.0%	\$2,746.8	213.1%
06/30/12	\$10,284.0	\$16,372.0	\$6,088.0	62.8%	\$10,331.7	63.1%	\$2,788.2	218.3%
06/30/11	\$10,397.0	\$15,943.0	\$5,546.0	65.2%	\$10,619.2	66.6%	\$2,852.4	194.4%
06/30/10	\$10,787.0	\$14,855.0	\$4,068.0	72.6%	\$9,071.9	61.1%	\$2,842.7	143.1%
<u>OP&F</u>								
01/01/14	\$11,063.2	\$16,577.8	\$5,514.6	66.7%	\$11,920.5	71.9%	\$1,942.3	283.9%
01/01/13	\$10,278.0	\$16,007.9	\$5,729.9	64.2%	\$10,602.8	66.2%	\$1,913.4	299.5%
01/01/12	\$10,309.0	\$16,346.7	\$6,037.7	63.1%	\$9,688.4	59.3%	\$1,897.4	318.2%
01/01/11	\$10,681.0	\$15,384.4	\$4,703.4	69.4%	\$10,075.5	65.5%	\$1,868.5	251.7%
01/01/10	\$10,794.1	\$14,830.7	\$4,036.7	72.8%	\$9,056.8	61.1%	\$1,895.2	213.0%
<u>HPRS</u>								
12/31/13	\$690.6	\$989.1	\$298.5	69.8%	\$729.0	73.7%	\$98.5	303.0%
12/31/12	\$658.4	\$966.3	\$307.9	68.1%	\$642.6	66.5%	\$98.1	313.8%
12/31/11	\$623.4	\$1,047.7	\$424.3	59.5%	\$603.4	57.6%	\$93.1	455.7%
12/31/10	\$631.0	\$1,017.8	\$386.8	62.0%	\$647.1	63.6%	\$94.8	408.2%
12/31/09	\$620.4	\$940.1	\$319.7	66.0%	\$595.0	63.3%	\$94.8	337.2%

- (a) Recognizes assumed long-term investment returns fully each year (8.25% for OP&F, 7.75% for SERS, and 8.0% for the remaining systems). Differences between actual and assumed investment returns, subject to each system's market corridor limitation, are phased-in over a closed four-year period, except for OP&F in 2010-2012 which phases-in over five-year period.
- (b) Reflects an individual entry age actuarial cost method.
- (c) UAAL is calculated based on an open period as a level percent of payroll, except for PERS in 2012-2013, HPRS in 2012-2013, and SERS for which UAAL is calculated based on a closed period of time and the portion of PERS members who participate in the member directed plan which uses a level dollar of payroll.
- (d) Excludes Medicare Part B reimbursement which is considered a post-employment health care benefit reported in accordance with GASB 43 for all data except MVA.

Sources: Retirement systems' CAFR's and annual actuarial valuations.

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GASB Statements No. 67 & 68. GASB Statement No. 67 replaced prior accounting standards for reporting pension plan information beginning in Fiscal Year 2014. Under this new accounting standard, the reporting of unfunded actuarial accrued liability (UAAL) has been replaced by the net pension liability (NPL). The NPL represents the excess of the total pension liability over fiduciary net position. The components of the NPL and the sensitivity of the NPL to changes in the single discount rate for each of the retirement systems for the most recent year are as follows (\$ in millions):

	<u>PERS</u> 12/31/14	<u>STRS</u> 07/01/15	<u>SERS</u> 06/30/15	<u>OP&F</u> 01/01/14	<u>HPRS</u> 12/31/14
Valuation as of:					
Total Pension Liability (a)	\$89,277.0	\$99,014.7	\$18,503.3	\$18,633.9	\$1,044.3
Fiduciary Net Position (b).....	\$77,254.0	\$71,377.6	\$12,797.2	\$13,453.4	\$740.7
Net Pension Liability (NPL)	\$12,023.0	\$27,637.1	\$5,706.1	\$5,180.4	\$303.7
Fiduciary Net Position as a Percentage of					
Total Pension Liability.....	86.5%	72.1%	69.2%	72.2%	70.9%
NPL Calculated With 1% Decrease in Discount Rate.....	\$22,194.0	\$38,390.0	\$7,912.3	\$7,165.3	\$414.1
NPL Calculated With 1% Increase in Discount Rate.....	\$3,458.0	\$18,543.9	\$3,848.3	\$3,499.8	\$211.2

(a) Reflects a single discount rate of 8.0% for PERS and HPRS, 7.75% for STRS and SERS, and 8.25% for OP&F. The projection of cash flows used to determine the discount rate assumed that employee and employer contributions are made at the actuarially determined rates under State law. Based on those assumptions, the fiduciary net position was projected to be available to make all projected future benefit payments. Therefore, the long term expected rate of return on pension plan investments was applied to all periods of project benefit payments to determine total pension liability. Also reflects an individual entry age actuarial cost method.

(b) Based on the market value of assets.

Sources: Retirement systems' CAFRs and annual actuarial valuations.

GASB Statement No. 68 replaced prior accounting standards for state and local governments reporting of pension plan information beginning in Fiscal Year 2015. This new accounting standard requires employers and non-employer contributing entities to report a proportionate share of their NPL in their financial statements. Employers measure their proportionate share of NPL by comparing their long-term contributions to the plan to the projected long-term contributions made by all employers and non-employer entities to the plan. The State's proportionate share of the NPL and the sensitivity of the NPL to changes in the single discount rate for PERS, STRS and HPRS for the most recent year are as follows (\$ in millions):

	<u>PERS(a)</u> 12/31/14	<u>STRS</u> 07/01/14	<u>HPRS</u> 06/30/14
Valuation as of:			
Total Pension Liability (b).....	\$89,277.0	\$96,167.1	\$1,044.3
Fiduciary Net Position	\$77,254.0	\$71,843.6	\$740.7
Net Pension Liability (NPL)	\$12,023.0	\$24,323.5	\$303.7
State Proportionate Share of			
Net Pension Liability (PSL).....	\$2,496.4	\$99.4	\$303.7
PSL as a Percentage of NPL	20.7%	0.4%	100.0%
PSL Calculated With 1% Decrease in Discount Rate	\$4,592.7	\$142.3	\$414.1
PSL Calculated With 1% Increase in Discount Rate	\$730.8	\$63.1	\$211.2

(a) For PERS, figures reflect the traditional plan and the defined benefit portion of the combined plan as presented in the State's CAFR. Figures exclude PSL for the Ohio Facilities Construction Commission of \$5.1 million in the traditional plan and an asset of \$25.0 thousand in the combined plan.

(b) Reflects a single discount rate of 8.0% for PERS and HPRS, and 7.75% for STRS.

Sources: State of Ohio Fiscal Year 2015 CAFR, Retirement systems' CAFRs and annual actuarial valuations.

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Other Post-Employment Benefits

Each of the State's public retirement systems also offers post-employment health care benefits to its members. Contributions to and benefits under these health care programs are not vested and, as reflected by the recent actions of the OP&F and STRS boards described above, are subject to future adjustment by their respective boards. In this regard, PERS adopted, beginning in 2004, a series of health care preservation plans to adjust benefits and contributions by employers, employees, and retirees. Financial reporting of their health care plans is in compliance with GASB Statement 43 -- Financial Reporting for Post-Employment Benefit Plans Other than Pension Plans.

The following table presents a summary of assets and actuarial accrued liabilities for post-employment healthcare benefits for each of the State's public retirement systems (\$ in millions):

Valuation as of:	<u>PERS</u> 12/31/14	<u>STRS</u> 01/01/16	<u>SERS</u> 06/30/15	<u>OP&F</u> 01/01/15	<u>HPRS</u> 12/31/14
Value of Assets (a).....	\$12,062.4	\$3,258.2	\$408.4	\$1,031.9	\$103.8
Actuarial Accrued Liability (AAL) (b)	\$19,404.9	5,154.2	\$2,424.5	\$5,399.6	\$376.7
Unfunded Actuarial Accrued Liability (UAAL) (c)	\$7,342.5	1,896.0	\$2,016.2	\$4,367.6	\$272.9
Funding Ratio (Assets to AAL %)	62.2%	63.2%	16.8%	19.1%	27.6%
Employer Contribution (% of Salary) (d).....	2.0%	0.0%	0.82%(e)	0.50%	4.3%

- (a) For PERS and HPRS, investment returns are recognized fully each year with the differences between actual and assumed investment returns (assumed at 5%), subject to each system's market corridor limitation, phased-in over a closed four-year period. For STRS, SERS and OP&F, reflects market value.
- (b) Reflects an individual entry age normal actuarial cost method.
- (c) UAAL is calculated based on an open period as a level percent of payroll.
- (d) Each system's board annually determines the portion of the employer contribution, if any, that is directed to fund post-employment health care benefits. This amount has typically ranged from 1.0% to 7.0% of salary. See discussion above for recent adjustments by OP&F and STRS boards to employer contribution directed to fund health care benefits.
- (e) SERS also collects a health care surcharge from employers for employees who earn less than an actuarially determined minimum compensation amount. This amount is in addition to the amount allocated to health care from the employer contributions.

Sources: Retirement systems' annual actuarial valuations.

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The following table presents a summary of assets and actuarial accrued liabilities for post-employment healthcare benefits for the four years previous to the current year information provided above for each of the State's public retirement systems (\$ in millions):

Retirement System Valuation Year-End	Value of Assets(a)	Actuarial Accrued Liability (AAL)(b)	Unfunded Actuarial Accrued Liability(c)	Funding Ratio (Assets to AAL)	Employer Contribution (% of Salary)(d)(e)
<u>PERS</u>					
12/31/13	\$12,031.4	\$19,784.1	\$7,752.7	60.8%	1.0%
12/31/12	\$12,193.3	\$19,182.3	\$6,989.0	63.6%	4.0%
12/31/11	\$12,115.3	\$31,020.2	\$18,904.9	39.1%	4.0%
12/31/10	\$12,320.0	\$30,531.0	\$18,211.0	40.4%	5.1%
<u>STRS</u>					
01/01/15	\$3,454.4	\$4,676.2	\$1,221.9	73.9%	0.0%
01/01/14	\$3,471.9	\$4,664.4	\$1,192.6	74.4%	1.0%
01/01/13	\$3,121.6	\$4,254.1	\$1,132.5	73.4%	1.0%
01/01/12	\$2,968.2	\$5,094.4	\$2,126.3	58.3%	1.0%
<u>SERS</u>					
06/30/15	\$413.9	\$2,475.6	\$2,061.8	16.7%	0.14%
06/30/13	\$379.2	\$2,918.3	\$2,539.1	13.0%	0.16%
06/30/12	\$355.1	\$2,691.5	\$2,336.4	13.2%	0.55%
06/30/11	\$355.7	\$2,410.1	\$2,054.4	14.8%	1.43%
<u>OP&F</u>					
01/01/14	\$1,053.5	\$5,244.6	\$4,191.0	20.1%	0.50%
01/01/13	\$935.6	\$4,234.8	\$3,299.2	22.1%	3.62%
01/01/12	\$780.1	\$3,698.8	\$2,918.6	21.1%	6.75%
01/01/11	\$717.7	\$3,295.3	\$2,577.6	21.8%	6.75%
<u>HPRS</u>					
12/31/13	\$102.1	\$438.6	\$336.5	23.3%	3.65%
12/31/12	\$99.8	\$411.5	\$311.7	24.3%	1.75%
12/31/11	\$99.0	\$424.1	\$325.1	23.3%	1.75%
12/31/10	\$104.7	\$406.9	\$302.2	25.7%	3.50%

- (a) For PERS & HPRS, recognizes investment returns fully each year (PERS assumed at 6.5% in 2010 and 5.0% in 2011-2013 and HPRS assumed at 5.0%) with the differences between actual and assumed investment returns, subject to each system's market corridor limitation, phased-in over a closed four-year period. For STRS, SERS and OP&F, reflects market value.
- (b) Reflects an individual entry age normal actuarial cost method.
- (c) UAAL is calculated based on an open period as a level percent of payroll.
- (d) Each system's board annually determines the portion of the employer contribution, if any, that is directed to fund post-employment health care benefits. This amount has typically ranged from 1.0% to 7.0% of salary. For PERS, reflects overall effective rate.
- (e) SERS also collects a health care surcharge from employers for employees who earn less than an actuarially determined minimum compensation amount. This amount is in addition to the amount allocated to health care from the employer contributions.

Sources: Retirement systems' annual actuarial valuations.

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TAX LEVELS AND TAX BASES

The variety of taxes and excises levied by the State is indicated in several tables in this Appendix. According to the Federation of Tax Administrators, citing the U.S. Census Bureau as its source, the State ranked 33rd in state taxes per capita in 2013. Three major tax bases in the State, personal income (taxed by the State and municipalities and, with voter approval, by certain school districts), retail sales and use (taxed by the State and counties and transit authorities), and real and tangible personal property (taxed by local governments), are described below. In addition, the State completed the phase-in over fiscal years 2006 through 2010 of its commercial activity tax (CAT) on taxable gross receipts in excess of \$1,000,000 from doing business in Ohio, and the phase out over the same general period of its corporate franchise tax (except for application to financial institutions and certain affiliates of insurance companies and financial institutions which was eliminated and replaced with a new financial institutions tax effective tax year 2014). The initial rate for the CAT was 0.06% effective July 1, 2005, with that rate increased annually in approximately equal amounts (about 0.05%) until levied at the current rate of 0.26%. Beginning calendar year 2014, the State established a variable minimum tax on the CAT for businesses with taxable gross receipts greater than \$1 million (see **FISCAL MATTERS – Recent and Current Finances – Recent Biennia – 2014-15**). As described further below, the receipts from the CAT are directed in part to make compensating payments to school districts and other local taxing units in connection with the phase-out of the tangible personal property tax in 2006 through 2009.

The State also imposes a tax on the use, distribution, or sale of motor vehicle fuel. This “gasoline” tax was raised two-cents per gallon effective July 1, 2005 to 28 cents per gallon (one cent of this tax is specifically directed to local highway-related infrastructure projects).

Sales and Use Tax

The State sales and use tax rate was increased one-quarter percent from 5.5% to 5.75% beginning September 1, 2013 (see **FISCAL MATTERS – Recent and Current Finances – Recent Biennia – 2014-15**). Prior to this increase, the rate had been 5.5% since July 1, 2005. The sales and use tax is levied uniformly across counties on retail sales of tangible personal property that are not specifically exempt. Retail sales include the rental and storage of tangible personal property, the rental of hotel rooms, and certain specified services including, but not limited to, repair and installation services, data processing, computer, and electronic information services, telecommunication and certain personal care services.

Counties and transit authorities each are authorized to levy permissive sales and use taxes at rates of 0.25% to 1.5% in quarter-percent increments. The highest potential aggregate of State and permissive local sales taxes is 8.75% and the highest currently levied in any county is 8%. The State collects the combined state and local tax and returns the local share directly to the counties and transit authorities.

Personal Income Tax

Under the State’s current biennial appropriations Act and other recent legislation, State personal income tax rates, applying generally to federal adjusted gross income, were reduced by 8.5% in calendar year 2013, 1.5% in calendar year 2014, and 6.3% in calendar year 2015 (see **FISCAL MATTERS – Recent and Current Finances – Recent Biennia - 2014-15 and Current Biennium**). The indexing of the State income tax brackets and the personal exemption are suspended while these rate reductions are implemented. Recent legislation also established a deduction for pass-through entities and sole proprietorships annual business net income of 75% in tax years 2014 and 2015, and 100% in tax year 2016 and beyond, up to \$250,000 (see **FISCAL MATTERS – Recent and Current Finances – Recent Biennia – 2014-15 and Current Biennium**). The 2014 personal income tax rates ranged from 0.528% on incomes of \$5,200 or less with increasing bracketed base rates and percentages up to a maximum on incomes over \$208,500 of \$8,529 plus 5.333% on the amount over \$208,500. Previously, personal income tax rates were reduced 4.2% annually in each of the years 2005 through 2008 and, after the postponement discussed under **FISCAL MATTERS – Recent and Current Finances – Recent Biennia - 2010-11**, again in 2011, resulting in an aggregate 21% decrease through 2011 from the 2004 rates.

The Constitution requires 50% of State income tax receipts to be returned to the political subdivisions or school districts in which those receipts originate. There is no present constitutional limit on income tax rates.

Municipalities and school districts, and joint economic development districts and zones, may also levy certain income taxes. Any municipal rate (applying generally to wages and salaries and business net income) over 1%, and any school district income tax (applying generally to the State income tax base for individuals and estates), requires voter approval. Most cities and villages levy a municipal income tax. The highest municipal rate in 2011 was 3%. A school district income tax is currently approved in 184 districts. Each joint economic development district or zone may also levy an income tax (which like municipal income taxes applies generally to wages and salaries and business net income) with the rate of that tax limited to the highest income tax rate of a municipal member of the district or zone). Effective July 1, 2005, there may also be proposed for voter approval municipal income taxes to be shared with school districts, but those taxes may not be levied on the income of nonresidents.

Since 1970 the ratio of Ohio to U.S. aggregate personal income has declined, with Ohio's ranking among the states moving from fifth in 1970 to seventh in 1990, moving between seventh and eighth in 1994 through 2003, and eighth since 2004. This movement, portrayed below, in significant measure reflects "catching up" by several other states and a trend in Ohio toward more service sector employment.

		Personal Income (\$ in Billions)			
		U.S.	Ohio	Ohio Percent of U.S.	State Rank*
1970	Total.....	\$855.1	\$44.1	5.2%	5
	per capita.....	4,196	4,136	98.6	18
1980	Total.....	2,307.0	107.0	4.6	6
	per capita.....	10,153	9,909	97.6	25
1990	Total.....	4,890.5	202.8	4.1	7
	per capita.....	19,591	18,669	95.3	21
2000	Total.....	8,634.9	325.4	3.8	8
	per capita.....	30,602	28,631	93.6	27
2010	Total.....	12,459.6	419.8	3.4	8
	per capita.....	40,277	36,377	90.3	32
2012	Total.....	13,904.5	489.4	3.5	8
	per capita.....	44,266	40,329	91.1	30
2013	Total.....	14,064.5	471.6	3.4	8
	per capita.....	44,438	40,749	91.7	30
2014	Total.....	14,683.2	489.7	3.3	8
	per capita.....	46,049	42,236	91.7	29
2015 ^(p)	Total.....	15,324.1	504.9	3.3	8
	per capita.....	47,669	43,478	91.2	29

Source: U.S. Department of Commerce, Bureau of Economic Analysis.

* Excludes District of Columbia.

^(p) Preliminary data

In addition to personal income, the retail sales base is an important indicator of sales and use tax receipts.

Retail Sales (\$ in Billions)			Ohio Percent
Fiscal Year	Ohio Retail Sales	U.S. Retail Sales	of U.S.
1980	\$39.01	\$979.25	4.0%
1990	66.95	1,914.04	3.5
2000	117.72	3,213.82	3.6
2010	128.59	4,173.57	3.1
2011	136.86	4,443.79	3.1
2012	145.59	4,723.49	3.1
2013	150.83	4,922.28	3.1
2014	156.52	5,095.27	3.1
2015	161.78	5,259.13	3.1

Source: Calculated by Global Insight based on data from the U.S. Department of Commerce, Bureau of the Census.

Property Tax

The following table lists, for informational purposes only, the non-exempt real and tangible personal property tax base in the State and taxes levied on that base (on a calendar year basis). Only local taxing subdivisions, and not the State, currently tax the real and tangible personal property included in this table. Reported figures for 2015 show that these property taxes represent 3.33% of Ohio personal income.

		<u>Assessed Value (a)</u>	<u>Percent of True Value (b)</u>	<u>Taxes Charged</u>
1980	Real(c).....	\$56,457,842,607	27.1%	\$2,343,384,488(e)
	Tangible(d).....	15,649,200,844	39.2	765,047,826
	Public Utility(c).....	8,670,052,613	83.3	411,321,235
1990	Real.....	93,857,482,000	35.0	4,593,147,000(e)
	Tangible(d).....	18,473,055,000	28.0	1,149,643,000
	Public Utility(c)(f).....	12,934,191,000	88.6	799,396,000
2000	Real.....	167,857,657,350	35.0	8,697,809,112(e)
	Tangible(d).....	23,298,302,564	25.0	1,720,740,378
	Public Utility(c)(f).....	13,635,709,860	67.0	967,674,709
2010	Real.....	238,264,394,249	35.0	14,486,087,962(e)
	Tangible(d).....	320,961,400	5.0(b)	18,432,832
	Public Utility(c)(f).....	10,096,712,600(g)	52.9	747,237,219
2011	Real.....	231,189,983,505	35.0	14,602,588,295(e)
	Tangible(d).....	-0-	-0-(b)	-0-
	Public Utility(c)(f).....	10,526,028,040(g)	51.0	804,746,979
2012	Real.....	225,314,466,955	35.0	14,767,601,611(e)
	Tangible(d).....	-0-	-0-(b)	-0-
	Public Utility(c)(f)(h).....	11,105,363,530(g)	52.4	872,521,025
2013	Real.....	226,356,619,274	35.0	15,138,100,663(e)
	Tangible(d).....	-0-	-0-(b)	-0-
	Public Utility(c)(f)(h).....	11,899,256,920 (g)	53.1	948,094,817
2014	Real.....	230,378,310,115	35.0	15,465,341,626(e)
	Tangible(d).....	-0-	-0-(b)	-0-
	Public Utility(c)(f).....	12,880,528,010 (g)	55.3	1,045,187,750
2015	Real.....	234,225,079,130	35.0	15,676,144,409(e)
	Tangible(d).....	-0-	-0-(b)	-0-
	Public Utility(c)(f).....	14,111,055,940 (g)	52.9	1,120,681,300

- (a) Increases in assessed value of "Real" are in part products of reappraisals.
- (b) Regular annual reductions for "Tangible" (except for most public utility tangible) reached 0% in 2009; only telecommunication and telephone personal property was taxable in 2009 and 2010.
- (c) Includes public utility personal property owned and located within Ohio and railroad real property; excludes public utility real property.
- (d) Includes machinery, inventories, fixtures; effective tax year 2007 includes telephone company property. Excludes public utility tangible property. Effective tax year 2009 includes only telephone company property.
- (e) Includes the statutory 10% rollback (12.5% for owner-occupied residences) and elderly/handicapped partial exemption amounts, paid by the State to local taxing entities to compensate for statutory reductions in local tax collections. Effective for tax year 2005 and thereafter, the 10% rollback was eliminated for real property used in business, with exceptions for certain property used in farming or for housing. The 12.5% rollback for owner-occupied residences was eliminated for new voter-approved tax levies (see **FISCAL MATTERS – Recent and Current Finances – Current Biennium**).
- (f) Beginning in 1990, the true value of most public utility property is based on annual composite allowances that vary according to the type and age of property.
- (g) Beginning in 2001, the statutory assessment rate for electric and gas utilities decreased from 88% to 25%.
- (h) Calculated using 2011 assessment rates on the breakdown of electrical property.

Source: Ohio Department of Taxation.

Under State legislation effective July 1, 2005 and as reflected in the above table, the tangible personal property tax (TPPT) (including that tax on inventories) was phased out over tax years 2006 through 2009, with that tax generally eliminated beginning in tax year 2009. That legislation provided for the State to make replacement distributions to school districts and other local taxing units from revenue generated by the State commercial activity tax (CAT). Distributions were and are generally based on the taxable value of tangible personal property as reported in 2004 and property tax levies in effect for 2005. In Fiscal Year 2012, the State began phasing-out those TPPT replacement payments to schools and local governments with replacement payments to schools reduced by two percent of each district's total resources in each of Fiscal Years 2012 and 2013 for a total reduction of four percent; and replacement payments to local governments reduced by two percent of total resources for tax years 2011, 2012, and 2013 for a total reduction of six percent. Replacement payments were then frozen in Fiscal Years 2014 and 2015. The phasing out of these replacement payments resumed beginning in Fiscal Year 2016, with payments to school districts to be reduced in Fiscal Years 2016

and 2017 by between 1% and 2% of each district's total resources with the variance based on district wealth levels, with guarantees in both Fiscal Year 2016 and Fiscal Year 2017 that no district will fall below 100% and 96%, respectively, of its Fiscal Year 2015 total funding level. Fiscal Year 2016 and thereafter replacement payments to other local governments are reduced annually by two percent of their total resources (see **FISCAL MATTERS – Recent and Current Finances – Current Biennium**).

Beginning July 2007, the State's homestead exemption program, which takes the form of a credit on local residential real property tax bills, was expanded to allow all senior citizens and disabled Ohioans, regardless of income, to exempt from tax the first \$25,000 of the market value of their home. Previously eligibility was restricted and benefits were tiered based on income. Beginning July 1, 2013, eligibility for new applicants is based on income (see **FISCAL MATTERS – Recent and Current Finances - Recent Biennia – 2014-15**). The total cost of the homestead exemption program in Fiscal Year 2014 was \$458.5 million and in Fiscal Year 2015 was \$467.4 million.

Property tax relief payments by the State to local subdivisions totaled \$3.41 billion for the 2012-13 biennium, \$3.59 billion for the 2014-15 biennium, and are appropriated at \$3.72 billion for the 2016-17 biennium.

SCHOOLS AND MUNICIPALITIES

Schools

Litigation was commenced in the Ohio courts in 1991 questioning the constitutionality of Ohio's system of school funding and compliance with the constitutional requirement that the State provide a "thorough and efficient system of common schools". On December 11, 2002, the Ohio Supreme Court, in a 4-3 decision on a motion to reconsider its own decision rendered in September 2001, concluded (as it had in its 1997 and 2000 opinions in that litigation) that the State did not comply with that requirement, even after again noting and crediting significant State steps in preceding years.

In its prior decisions, the Ohio Supreme Court stated as general base threshold requirements that every school district have enough funds to operate, an ample number of teachers, sound and safe buildings, and equipment sufficient for all students to be afforded an educational opportunity. With particular respect to funding sources, the Court concluded in 1997 and 2000 decisions that property taxes no longer may be the primary means of school funding in Ohio.

On March 4, 2003, the plaintiffs filed with the original trial court a motion to schedule and conduct a conference to address compliance with the orders of the court in that case, the State petitioned the Ohio Supreme Court to issue a writ prohibiting that conference on compliance, and the trial court subsequently petitioned the Ohio Supreme Court for guidance as to the proper course to follow. On May 16, 2003, the Ohio Supreme Court granted that writ and ordered the dismissal of the motion before the trial court. On October 20, 2003 the United States Supreme Court declined to accept the plaintiffs' subsequent petition requesting further review of the case.

In the years following this litigation, the General Assembly has taken steps, including significantly increasing State funding for public schools, as discussed below. In addition, at the November 1999 election electors approved a constitutional amendment authorizing the issuance of State general obligation debt for school buildings and for higher education facilities (see discussion under **STATE DEBT**). December 2000 legislation also addressed certain mandated programs and reserves, characterized by the plaintiffs and the Court as "unfunded mandates."

Under the financial structure in place before the 2009-10 biennium, Ohio's 613 public school districts and 49 joint vocational school districts receive a major portion (but less than 50%) of their operating moneys from State subsidy appropriations (the primary portion of which is known as the Foundation Program) distributed in accordance with statutory formulae that take into account both local needs and local taxing capacity. The Foundation Program amounts have steadily increased in most recent years, including small aggregate increases even in those Fiscal Years in which appropriations cutbacks were imposed.

School districts also rely upon receipts from locally voted taxes. In part because of provisions of some State laws, such as that partially limiting the increase (without further vote of the local electorate) in voted property tax collections that would otherwise result from increased assessed valuations, some school districts have experienced varying degrees of difficulty in meeting mandated and discretionary increased costs. Local

electorates have largely determined the total moneys available for their schools. Locally elected boards of education and their school administrators are responsible for managing school programs and budgets within statutory requirements.

The State's school subsidy formulas that were used until the 2009-10 biennium were structured to encourage both program quality and local taxing effort. Until the late 1970's, although there were some temporary school closings, most local financial difficulties that arose were successfully resolved by the local districts themselves by some combination of voter approval of additional property tax levies, adjustments in program offerings, or other measures. For more than 20 years, requirements of law and levels of State funding have sufficed to prevent school closings for financial reasons, which in any case are prohibited by current law.

To broaden the potential local tax revenue base, local school districts also may submit for voter approval income taxes on the district income of individuals and estates. Many districts have submitted the question, and income taxes are currently approved in 184 districts.

Biennial school funding State appropriations from the GRF and Lottery Profits Education Fund (but excluding federal and other special revenue funds) for recent biennia were:

- 2006-07 - \$16.4 billion (a 4.5% increase over the previous biennium before the expenditure reductions discussed under **Fiscal Matters – Recent and Current Finances - Recent Biennia - 2006-07**).
- 2008-09 - \$17.2 billion (a 5.1% increase over the previous biennium before the expenditure reductions discussed under **Fiscal Matters – Recent and Current Finances - Recent Biennia - 2008-09**).
- 2010-11 - \$17.0 billion (a 1.6% decrease over the previous biennium. These amounts are exclusive of the \$1.463 billion of appropriations to school districts for the 2010-11 biennium from “Federal Stimulus” funding received under the American Recovery and Reinvestment Act of 2009).
- 2012-13 - \$16.6 billion (a 2.3% decrease over the previous biennium).
- 2014-15 - \$18.3 billion (a 10.5% increase over the previous biennium)

State appropriations for school funding for the 2016-17 biennium are \$20.0 billion (a 9.3% increase from those appropriations in the previous biennium), representing an increase of 4.0% in Fiscal Year 2016 over Fiscal Year 2015 and an increase of 4.1% in Fiscal Year 2017 over Fiscal Year 2016.

The amount of lottery profits transferred to the Lottery Profits Education Fund (LPEF) totaled \$803.1 million in Fiscal Year 2013, \$904.3 million in Fiscal Year 2014, \$990.0 million in Fiscal Year 2015 and is currently estimated to be \$984.0 million in Fiscal Year 2016. Ohio participation in the multi-state lottery commenced in May 2002. A constitutional provision requires that net lottery profits be paid into LPEF be used solely for the support of elementary, secondary, vocational and special education purposes, including application to debt service on general obligation bonds to finance common school facilities. The 2010-11 biennial appropriations Act also authorized the implementation of video lottery terminals (VLTs) at Ohio seven horse racing tracks. See **FISCAL MATTERS - Recent and Current Finances – Recent Biennia - 2010-11** for discussion of litigation concluded in the Ohio Supreme Court declaring that the authorization of those VLTs is subject to voter referendum and subsequent withdrawal of that referendum by the committee for the petitioners, and for an appeal currently pending before the Ohio Supreme Court in another case attempting to challenge the VLT authorization in the 2010-11 biennial appropriations Act.

The 2014-15 biennial appropriations Act enacted a new funding formula for the distribution of State funding to local school districts based on a per pupil amount. This per pupil formula is similar to the “Building Blocks” school funding formula in place through Fiscal Year 2009 until its replacement with the “Evidence Based Model” for the 2010-11 biennium. The Evidence Based Model was repealed in July 2011 and a temporary formula was put in place for the 2012-13 biennium that allocated funding to each school district based on the per pupil funding it received for Fiscal Year 2011, adjusted by its share of a statewide per pupil adjustment amount that was indexed by the district's relative tax valuation per pupil.

The current 2016-17 biennial appropriations Act modified certain components of the funding formula to distribute new resources to districts with less capacity to raise revenue through local sources. Under the modified formula, the State Department of Education will compute and pay to each school district education aid based on a per pupil funding amount of \$5,900 in Fiscal Year 2016 and \$6,000 in Fiscal Year 2017, multiplied by each school district's “state share index,” which uses a three-year average of adjusted property valuation per pupil and the median income of that school district to calculate the percentage of the per-pupil

amount that is to be paid by the State and the amount assumed to be contributed by the school district through local sources. The 2016-17 biennial appropriations Act also supplements transportation funds for low density districts and continues to provide additional funds for students with exceptional needs, including those with special needs and the disabled, and limited English proficiency, and for economically disadvantaged and gifted students. Funding is also provided based on the number of K-3 students at each school district to be used to help school districts comply with Ohio's 3rd grade reading guarantee. The Act continues funding for the "Straight A Fund" to provide school districts with grants to develop and implement creative and innovative instructional models to inspire learning and student growth.

Legislation was enacted in 1996 to address school districts in financial straits. It is similar to that for municipal "fiscal emergencies" and "fiscal watch" discussed below under **Municipalities**, but is particularly tailored to certain school districts and their then-existing or potential fiscal problems. Newer legislation created a third, more preliminary, category of "fiscal caution". A current listing of school districts in fiscal emergency or watch status can be found on the Auditor of State's website at <http://www.auditor.state.oh.us>.

Municipalities

Ohio has a mixture of urban and rural population, with approximately three-quarters urban. There are 932 incorporated cities and villages (municipalities with populations under 5,000) in the State. Five cities have populations of more than 100,000 and 16 cities exceed 50,000 in population.

A 1979 act established procedures for identifying and assisting those few cities and villages experiencing defined "fiscal emergencies." A commission composed of State and local officials, and private sector members experienced in business and finance appointed by the Governor, is to monitor the fiscal affairs of a municipality facing substantial financial problems. That act requires the municipality to develop, subject to approval and monitoring by its commission, a financial plan to eliminate deficits and cure any defaults and otherwise remedy fiscal emergency conditions and to take other actions required under its financial plan. It also provides enhanced protection for the municipality's bonds and notes and, subject to the act's stated standards and controls, permits the State to purchase limited amounts of the municipality's short-term obligations (used only once, in 1980).

As noted in the discussion above under **FISCAL MATTERS – Recent and Current Finances – Recent Biennia -- 2004-05, -- 2008-09 and -- 2012-13**, the amount of distributions to most local governments, including municipalities, from the several State local government revenue assistance funds have been subject to reductions and other adjustments in several of those recent biennia.

The fiscal emergency legislation has been amended to extend its potential application to counties (88 in the State) and townships. This extension is on an "if and as needed" basis and is not aimed at particularly identified existing fiscal problems of those subdivisions. A current listing of governments in each status can be found on the Auditor of State's website at <http://www.auditor.state.oh.us>.

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Book-Entry System; DTC**Book-Entry System**

The information set forth in the following numbered paragraphs is based on information provided by The Depository Trust Company in its “Sample Offering Document Language Describing DTC and Book-Entry-Only Issuance” (labeled SOL-8/10/11). As such, the State and the Commission believe it to be reliable, but take no responsibility for the accuracy or completeness of that information. It has been adapted to the Bonds by substituting “Bonds” for “Securities,” “Commission” for “Issuer” and “Bond Registrar” for “registrar”, by making appropriate references to the Bonds “of each series” and to each “interest rate within a maturity” of the Bonds, and by the addition of the italicized language set forth in the text. See also the additional information following those numbered paragraphs.

1. The Depository Trust Company, New York, New York (DTC), will act as securities depository for the Bonds of each series. The Bonds will be issued as fully-registered securities registered in the name of Cede & Co. (DTC’s partnership nominee) or such other name as may be requested by an authorized representative of DTC. One fully-registered Bond certificate will be issued for each maturity and interest rate within a maturity of the Bonds of each series, each in the aggregate principal amount of such maturity (*or portion thereof*), and will be deposited with DTC.

2. DTC, the world’s largest securities depository, is a limited-purpose trust company organized under the New York Banking Law, a “banking organization” within the meaning of the New York Banking Law, a member of the Federal Reserve System, a “clearing corporation” within the meaning of the New York Uniform Commercial Code, and a “clearing agency” registered pursuant to the provisions of Section 17A of the Securities Exchange Act of 1934. DTC holds and provides asset servicing for over 3.5 million issues of U.S. and non-U.S. equity issues, corporate and municipal debt issues, and money market instruments (from over 100 countries) that DTC’s participants (“Direct Participants”) deposit with DTC. DTC also facilitates the post-trade settlement among Direct Participants of sales and other securities transactions in deposited securities, through electronic computerized book-entry transfers and pledges between Direct Participants’ accounts. This eliminates the need for physical movement of securities certificates. Direct Participants include both U.S. and non-U.S. securities brokers and dealers, banks, trust companies, clearing corporations, and certain other organizations. DTC is a wholly owned subsidiary of The Depository Trust & Clearing Corporation (“DTCC”). DTCC is the holding company for DTC, National Securities Clearing Corporation and Fixed Income Clearing Corporation, all of which are registered clearing agencies. DTCC is owned by the users of its regulated subsidiaries. Access to the DTC system is also available to others such as both U.S. and non-U.S. securities brokers and dealers, banks, trust companies, and clearing corporations that clear through or maintain a custodial relationship with a Direct Participant, either directly or indirectly (“Indirect Participants”). DTC has a rating of AA+ from Standard and Poor’s. The DTC Rules applicable to its Participants are on file with the Securities and Exchange Commission. More information about DTC can be found at www.dtcc.com and www.dtc.org. (*These internet sites are included for reference only, and the information in these internet sites is not incorporated by reference in this Official Statement.*)

3. Purchases of Bonds under the DTC system must be made by or through Direct Participants, which will receive a credit for the Bonds on DTC’s records. The ownership interest of each actual purchaser of each Bond (“Beneficial Owner”) is in turn to be recorded on the Direct and Indirect Participants’ records. Beneficial Owners will not receive written confirmation from DTC of their purchase. Beneficial Owners are, however, expected to receive written confirmations providing details of the transaction, as well as periodic statements of their holdings, from the Direct or Indirect Participant through which the Beneficial Owner entered into the transaction. Transfers of ownership interests in the Bonds are to be accomplished by entries made on the books of Direct and Indirect Participants acting on behalf of Beneficial Owners. Beneficial Owners will not receive certificates

representing their ownership interests in the Bonds, except in the event that use of the book-entry system for the Bonds is discontinued.

4. To facilitate subsequent transfers, all Bonds deposited by Direct Participants with DTC are registered in the name of DTC's partnership nominee, Cede & Co., or such other name as may be requested by an authorized representative of DTC. The deposit of Bonds with DTC and their registration in the name of Cede & Co. or such other DTC nominee do not effect any change in beneficial ownership. DTC has no knowledge of the actual Beneficial Owners of the Bonds; DTC's records reflect only the identity of the Direct Participants to whose accounts such Bonds are credited, which may or may not be the Beneficial Owners. The Direct and Indirect Participants will remain responsible for keeping account of their holdings on behalf of their customers.

5. Conveyance of notices and other communications by DTC to Direct Participants, by Direct Participants to Indirect Participants, and by Direct Participants and Indirect Participants to Beneficial Owners will be governed by arrangements among them, subject to any statutory or regulatory requirements as may be in effect from time to time. Beneficial Owners of Bonds may wish to take certain steps to augment the transmission to them of notices of significant events with respect to the Bonds, such as redemptions, tenders, defaults and proposed amendments to the Bond documents. For example, Beneficial Owners of Bonds may wish to ascertain that the nominee holding the Bonds for their benefit has agreed to obtain and transmit notices to Beneficial Owners. In the alternative, Beneficial Owners may wish to provide their names and addresses to the Bond Registrar and request that copies of the notices be provided directly to them.

6. Redemption notices shall be sent to DTC. If less than all of the Bonds within an issue are being redeemed, DTC's practice is to determine by lot the amount of the interest of each Direct Participant in such issue to be redeemed.

7. Neither DTC nor Cede & Co. (nor any other DTC nominee) will consent or vote with respect to Bonds unless authorized by a Direct Participant in accordance with DTC's MMI procedures. Under its usual procedures, DTC mails an Omnibus Proxy to the Commission as soon as possible after the record date. The Omnibus Proxy assigns Cede & Co.'s consenting or voting rights to those Direct Participants to whose accounts the Bonds are credited on the record date (identified in a listing attached to the Omnibus Proxy).

8. Redemption proceeds, distributions and dividend payments (*debt charges*) on the Bonds will be made to Cede & Co., or such other nominee as may be requested by an authorized representative of DTC. DTC's practice is to credit Direct Participants' accounts, upon DTC's receipt of funds and corresponding detail information from the Commission or the Bond Registrar, on the payable date in accordance with their respective holdings shown on DTC's records. Payments by Participants to Beneficial Owners will be governed by standing instructions and customary practices, as is the case with securities held for the accounts of customers in bearer form or registered in "street name," and will be the responsibility of such Participant and not of DTC, the Bond Registrar, the State or the Commission, subject to any statutory or regulatory requirements as may be in effect from time to time. Payment of redemption proceeds, distributions and dividend payments (*debt charges*) to Cede & Co. (or such other nominee as may be requested by an authorized representative of DTC) is the responsibility of the Commission or the Bond Registrar, disbursement of such payments to Direct Participants will be the responsibility of DTC, and disbursement of such payments to the Beneficial Owners will be the responsibility of Direct and Indirect Participants.

9. (*Not Applicable to the Bonds.*)

10. DTC may discontinue providing its services as depository with respect to the Bonds at any time by giving reasonable notice to the Commission or the Bond Registrar. Under such circumstances, in the event that a successor depository is not obtained, Bond certificates are required to be printed (*or otherwise produced*) and delivered.

11. The Commission may decide to discontinue use of the system of book-entry-only transfers through DTC (or a successor securities depository). In that event, Bond certificates will be printed (*or otherwise produced*) and delivered to DTC. (*See also **Revision of Book-Entry System; Replacement Bonds.***)

12. The information above in this section concerning DTC and DTC's book-entry system has been obtained from sources that the State and Commission believe to be reliable, but the State and Commission take no responsibility for the accuracy thereof.

Direct Participants and Indirect Participants may impose service charges on Beneficial Owners in certain cases. Purchasers of book-entry interests should discuss that possibility with their brokers.

The State, the Commission and the Bond Registrar have no role in the purchases, transfers or sales of book-entry interests. The rights of Beneficial Owners to transfer or pledge their interests, and the manner of transferring or pledging those interests, may be subject to applicable state law. Beneficial Owners may want to discuss with their legal advisors the manner of transferring or pledging their book-entry interests.

The State, the Commission and the Bond Registrar have no responsibility or liability for any aspects of the records or notices relating to, or payments made on account of, beneficial ownership, or for maintaining, supervising or reviewing any records relating to that ownership.

The State, the Commission and the Bond Registrar cannot and do not give any assurances that DTC, Direct Participants, Indirect Participants or others will distribute to the Beneficial Owners payments of debt charges on the Bonds made to DTC as the registered owner, or redemption, if any, or other notices, or that they will do so on a timely basis, or that DTC, Direct Participants or Indirect Participants will serve or act in a manner described in this Official Statement.

For all purposes under the Bond proceedings (except the Continuing Disclosure Agreement for each series under which others as well as DTC may be considered an owner or holder of the Bonds, see **Continuing Disclosure Agreements**), DTC will be and will be considered by the State, the Commission and the Bond Registrar to be the owner or holder of the Bonds.

Beneficial Owners will not receive or have the right to receive physical delivery of Bonds, and, except to the extent they may have rights as Beneficial Owners or holders under the Continuing Disclosure Agreement for each series will not be or be considered by the State, the Commission and the Bond Registrar to be, and will not have any rights as, owners or holders of Bonds under the Bond proceedings.

Reference herein to "DTC" includes when applicable any successor securities depository and the nominee of the depository.

Revision of Book-Entry System; Replacement Bonds

The Bond proceedings for each series provide for issuance of fully-registered Bonds (Replacement Bonds) directly to owners of Bonds other than DTC only in the event that DTC (or a successor securities depository) determines not to continue to act as securities depository for the Bonds. Upon occurrence of this event, the Commission may in its discretion attempt to have established a securities depository book-entry relationship with another securities depository. If the Commission does not do so, or is unable to do so, and after the Bond Registrar has made provision for notification of the Beneficial Owners of the Bonds by appropriate notice to DTC, the Commission and the Bond Registrar will authenticate and deliver Replacement Bonds of any one maturity and interest rate within a maturity, in authorized denominations, to or at the direction of any persons requesting such issuance, and, if the event is not the result of Commission action or inaction, at the expense (including legal and other costs) of those requesting.

Debt charges on Replacement Bonds will be payable when due without deduction for the services of the Bond Registrar as paying agent. Principal of and any premium on Replacement Bonds will be payable when due to the registered owner upon presentation and surrender at the designated office of the Bond Registrar. Interest on Replacement Bonds will be payable on the interest payment date by the Bond Registrar by transmittal to the registered owner of record on the Bond Register as of the 15th day preceding the interest payment date. Replacement Bonds will be exchangeable for other Replacement Bonds of authorized denominations, and transferable, at the designated office of the Bond Registrar without charge (except taxes or governmental fees). Exchange or transfer of then-redeemable Replacement Bonds is not required to be made: (i) between the 15th day preceding the mailing of notice of redemption of Replacement Bonds and the date of that mailing, or (ii) of a particular Replacement Bond selected for redemption (in whole or part).

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Text of Legal Opinion
(Higher Education General Obligation Refunding Bonds, Series 2016A)

To: Ohio Public Facilities Commission
Columbus, Ohio

-and-

PNC Capital Markets LLC

We have served as bond counsel to our client the Ohio Public Facilities Commission (the Commission) and not as counsel to any other person in connection with the issuance of \$69,400,000 Higher Education General Obligation Refunding Bonds, Series 2016A (the Series 2016A Bonds), dated the date of this letter. The Series 2016A Bonds are obligations of the State of Ohio (the State), issued by the Commission, for the purpose of refunding certain bonds previously issued for the purpose of paying costs of capital facilities for state-supported and state-assisted institutions of higher education. In our capacity as bond counsel, we have examined the transcript of proceedings relating to the issuance of the Series 2016A Bonds, a copy of the signed and authenticated Series 2016A Bond of the first maturity and such other documents, matters and law as we deem necessary to render the opinions set forth in this letter.

The Series 2016A Bonds are issued under and pursuant to Section 2n of Article VIII of the Ohio Constitution and Sections 151.01, 151.02 and 151.04 of the Ohio Revised Code and other authorizations by the Ohio General Assembly (collectively, the Act), and resolutions of the Commission (collectively, the Bond Resolution).

Based on that examination and subject to the limitations stated below, we are of the opinion that under existing law:

1. The Series 2016A Bonds constitute valid and binding general obligations of the State, and the full faith and credit, revenue and taxing power of the State are pledged to the payment of the principal of and interest on (Debt Service) the Series 2016A Bonds.
2. Debt Service on the Series 2016A Bonds and on bonds or other obligations issued or to be issued and outstanding pursuant to the Act (collectively, the Bonds) are payable from and secured by (i) a pledge of the excises, taxes and revenues of the State as provided for in the Bond Resolution (collectively, the Committed State Receipts), and (ii) moneys deposited in the Higher Education Capital Facilities Bond Service Fund created under the Act and further provided for in the Bond Resolution. Fees, excises and license taxes relating to the registration, operation or use of vehicles on the public highways, or to fuels used for propelling such vehicles, and net State lottery proceeds, are not pledged and may not be used to pay that Debt Service.
3. The State is required to charge and collect Committed State Receipts in an amount sufficient to pay when due the Debt Service on the Bonds, and the State has covenanted to maintain statutory authority for and to cause to be levied, collected and applied excises, taxes and revenues so that those Committed State Receipts,

including deposits of them to the Higher Education Capital Facilities Bond Service Fund, will be sufficient in time and amount to pay that Debt Service when due and certain other costs (including Debt Service on other State obligations). Provision has been made by law for setting aside each year in the Higher Education Capital Facilities Bond Service Fund a sufficient amount of the Committed State Receipts, without other or further appropriation, to pay when due the Debt Service on the Bonds.

4. Interest on the Series 2016A Bonds is excluded from gross income for federal income tax purposes under Section 103 of the Internal Revenue Code of 1986, as amended (the Code), and is not an item of tax preference for purposes of the federal alternative minimum tax imposed on individuals and corporations; however, a portion of the interest on the Series 2016A Bonds earned by certain corporations may be subject to the federal corporate alternative minimum tax. Interest on, and any profit made on the sale, exchange or other disposition of, the Series 2016A Bonds are exempt from all Ohio state and local taxation, except the estate tax, the domestic insurance company tax, the dealers in intangibles tax, the tax levied on the basis of the total equity capital of financial institutions, and the net worth base of the corporate franchise tax. We express no opinion as to any other tax consequences regarding the Series 2016A Bonds.

The opinions stated above are based on an analysis of existing laws, regulations, rulings and court decisions and cover certain matters not directly addressed by such authorities. In rendering all such opinions, we assume, without independent verification, and rely upon (i) the accuracy of the factual matters represented, warranted or certified in the proceedings and documents we have examined, and (ii) the due and legal authorization, execution and delivery of those documents by, and the valid, binding and enforceable nature of those documents upon, any parties other than the Commission and the State.

In rendering those opinions with respect to the treatment of the interest on the Series 2016A Bonds, we further assume and rely upon compliance with the covenants in the proceedings and documents we have examined, including those of the Commission for itself and the State. Failure to comply with certain of those covenants subsequent to issuance of the Series 2016A Bonds may cause interest on the Series 2016A Bonds to be included in gross income for federal income tax purposes retroactively to their date of issuance.

The rights of the owners of the Series 2016A Bonds and the enforceability of the Series 2016A Bonds are subject to bankruptcy, insolvency, arrangement, fraudulent conveyance or transfer, reorganization, moratorium and other laws relating to or affecting creditors' rights, to the application of equitable principles, to the exercise of judicial discretion, and to limitations on legal remedies against public entities.

The opinions rendered in this letter are stated only as of this date, and no other opinion shall be implied or inferred as a result of anything contained in or omitted from this letter. Our engagement as bond counsel with respect to the Series 2016A Bonds has concluded on this date.

Respectfully submitted,

Text of Legal Opinion
(Natural Resources General Obligation Refunding Bonds, Series U)

To: Ohio Public Facilities Commission
Columbus, Ohio

-and-

Fifth Third Securities, Inc.

We have served as bond counsel to our client the Ohio Public Facilities Commission (the Commission) and not as counsel to any other person in connection with the issuance of \$13,715,000 Natural Resources General Obligation Refunding Bonds, Series U (the Series U Bonds), dated the date of this letter. The Series U Bonds are obligations of the State of Ohio (the State), issued by the Commission, for the purpose of refunding certain bonds previously issued for the purpose of providing moneys to pay costs of natural resources projects. In our capacity as bond counsel, we have examined the transcript of proceedings relating to the issuance of the Series U Bonds, a copy of the signed and authenticated Series U Bond of the first maturity and such other documents, matters and law as we deem necessary to render the opinions set forth in this letter.

The Series U Bonds are issued under and pursuant to Section 21 of Article VIII of the Ohio Constitution and Sections 151.01, 151.02 and 151.05 of the Ohio Revised Code and other authorizations by the Ohio General Assembly (collectively, the Act), and resolutions of the Commission (collectively, the Bond Resolution).

Based on that examination and subject to the limitations stated below, we are of the opinion that under existing law:

1. The Series U Bonds constitute valid and binding general obligations of the State, and the full faith and credit, revenue and taxing power of the State are pledged to the payment of the principal of and interest on (Debt Service) the Series U Bonds.
2. Debt Service on the Series U Bonds and on bonds or other obligations issued or to be issued and outstanding pursuant to the Act (collectively, the Bonds) are payable from and secured by (i) a pledge of the excises, taxes and revenues of the State as provided for in the Bond Resolution (collectively, the Committed State Receipts), and (ii) moneys deposited in the Natural Resources Projects Bond Service Fund created under the Act and further provided for in the Bond Resolution. Fees, excises and license taxes relating to the registration, operation or use of vehicles on the public highways, or to fuels used for propelling such vehicles, and net State lottery proceeds, are not pledged and may not be used to pay that Debt Service.
3. The State is required to charge and collect Committed State Receipts in an amount sufficient to pay when due the Debt Service on the Bonds, and the State has covenanted to maintain statutory authority for and to cause to be levied, collected and applied excises, taxes and revenues so that those Committed State Receipts,

including deposits of them to the Natural Resources Projects Bond Service Fund, will be sufficient in time and amount to pay that Debt Service when due and certain other costs (including Debt Service on other State obligations). Provision has been made by law for setting aside each year in the Bond Service Fund a sufficient amount of the Committed State Receipts, without other or further appropriation, to pay when due the Debt Service on the Bonds.

4. Interest on the Series U Bonds is excluded from gross income for federal income tax purposes under Section 103 of the Internal Revenue Code of 1986, as amended (the Code), and is not an item of tax preference for purposes of the federal alternative minimum tax imposed on individuals and corporations; however, a portion of the interest on the Series U Bonds earned by certain corporations may be subject to the federal corporate alternative minimum tax. Interest on, and any profit made on the sale, exchange or other disposition of, the Series U Bonds are exempt from all Ohio state and local taxation, except the estate tax, the domestic insurance company tax, the dealers in intangibles tax, the tax levied on the basis of the total equity capital of financial institutions, and the net worth base of the corporate franchise tax. We express no opinion as to any other tax consequences regarding the Series U Bonds.

The opinions stated above are based on an analysis of existing laws, regulations, rulings and court decisions and cover certain matters not directly addressed by such authorities. In rendering all such opinions, we assume, without independent verification, and rely upon (i) the accuracy of the factual matters represented, warranted or certified in the proceedings and documents we have examined, and (ii) the due and legal authorization, execution and delivery of those documents by, and the valid, binding and enforceable nature of those documents upon, any parties other than the Commission and the State.

In rendering those opinions with respect to the treatment of the interest on the Series U Bonds, we further assume and rely upon compliance with the covenants in the proceedings and documents we have examined, including those of the Commission for itself and the State. Failure to comply with certain of those covenants subsequent to issuance of the Series U Bonds may cause interest on the Series U Bonds to be included in gross income for federal income tax purposes retroactively to their date of issuance.

The rights of the owners of the Series U Bonds and the enforceability of the Series U Bonds are subject to bankruptcy, insolvency, arrangement, fraudulent conveyance or transfer, reorganization, moratorium and other laws relating to or affecting creditors' rights, to the application of equitable principles, to the exercise of judicial discretion, and to limitations on legal remedies against public entities.

The opinions rendered in this letter are stated only as of this date, and no other opinion shall be implied or inferred as a result of anything contained in or omitted from this letter. Our engagement as bond counsel with respect to the Series U Bonds has concluded on this date.

Respectfully submitted,

Text of Legal Opinion
**(Third Frontier Research and Development
General Obligation Refunding Bonds, Series 2016B)**

To: Ohio Public Facilities Commission
Columbus, Ohio

-and-

Citigroup Global Markets, Inc.
and Associates

We have served as bond counsel to our client the Ohio Public Facilities Commission (the Commission) and not as counsel to any other person in connection with the issuance of \$22,105,000 Third Frontier Research and Development General Obligation Refunding Bonds, Series 2016B (the Series 2016B Bonds), dated the date of this letter. The Series 2016B Bonds are obligations of the State of Ohio (the State), issued by the Commission for the purpose of refunding certain bonds previously issued for the purpose of financing or assisting in the financing of the cost of research and development projects in support of Ohio industry, commerce and business. In our capacity as bond counsel, we have examined the transcript of proceedings relating to the issuance of the Series 2016B Bonds, a copy of the signed and authenticated Series 2016B Bond of the first maturity and such other documents, matters and law as we deem necessary to render the opinions set forth in this letter.

The Series 2016B Bonds are issued under and pursuant to Section 2p of Article VIII of the Ohio Constitution and Sections 151.01, 151.02 and 151.10 of the Ohio Revised Code and other authorizations by the Ohio General Assembly (collectively, the Act), and resolutions of the Commission (collectively, the Bond Resolution).

Based on that examination and subject to the limitations stated below, we are of the opinion that under existing law:

1. The Series 2016B Bonds constitute valid and binding general obligations of the State, and the full faith and credit, revenue and taxing power of the State are pledged to the payment of the principal of and interest on (Debt Service) the Series 2016B Bonds.
2. Debt Service on the Series 2016B Bonds and on bonds or other obligations issued or to be issued and outstanding pursuant to the Act (collectively, the Bonds) are payable from and secured by (i) a pledge of the excises, taxes and revenues of the State as provided for in the Bond Resolution (collectively, the Committed State Receipts), and (ii) moneys deposited in the Third Frontier Research and Development Projects Bond Service Fund created under the Act and further provided for in the Bond Resolution. Fees, excises and license taxes relating to the registration, operation or use of vehicles on the public highways, or to fuels used for propelling such vehicles, and net State lottery proceeds, are not pledged and may not be used to pay that Debt Service.
3. The State is required to charge and collect Committed State Receipts in an amount sufficient to pay when due the Debt Service on the Bonds, and the State has covenanted to maintain statutory authority for and to cause to be levied, collected

and applied excises, taxes and revenues so that those Committed State Receipts, including deposits of them to the Third Frontier Research and Development Projects Bond Service Fund, will be sufficient in time and amount to pay that Debt Service when due and certain other costs (including Debt Service on other State obligations). Provision has been made by law for setting aside each year in the Bond Service Fund a sufficient amount of the Committed State Receipts, without other or further appropriation, to pay when due the Debt Service on the Bonds.

4. Interest on the Series 2016B Bonds is excluded from gross income for federal income tax purposes under Section 103 of the Internal Revenue Code of 1986, as amended (the Code), and is not an item of tax preference for purposes of the federal alternative minimum tax imposed on individuals and corporations; however, a portion of the interest on the Series 2016B Bonds earned by certain corporations may be subject to the federal corporate alternative minimum tax. Interest on, and any profit made on the sale, exchange or other disposition of, the Series 2016B Bonds are exempt from all Ohio state and local taxation, except the estate tax, the domestic insurance company tax, the dealers in intangibles tax, the tax levied on the basis of the total equity capital of financial institutions, and the net worth base of the corporate franchise tax. We express no opinion as to any other tax consequences regarding the Series 2016B Bonds.

The opinions stated above are based on an analysis of existing laws, regulations, rulings and court decisions and cover certain matters not directly addressed by such authorities. In rendering all such opinions, we assume, without independent verification, and rely upon (i) the accuracy of the factual matters represented, warranted or certified in the proceedings and documents we have examined, and (ii) the due and legal authorization, execution and delivery of those documents by, and the valid, binding and enforceable nature of those documents upon, any parties other than the Commission and the State.

In rendering those opinions with respect to the treatment of the interest on the Series 2016B Bonds, we further assume and rely upon compliance with the covenants in the proceedings and documents we have examined, including those of the Commission for itself and the State. Failure to comply with certain of those covenants subsequent to issuance of the Series 2016B Bonds may cause interest on the Series 2016B Bonds to be included in gross income for federal income tax purposes retroactively to their date of issuance.

The rights of the owners of the Series 2016B Bonds and the enforceability of the Series 2016B Bonds are subject to bankruptcy, insolvency, arrangement, fraudulent conveyance or transfer, reorganization, moratorium and other laws relating to or affecting creditors' rights, to the application of equitable principles, to the exercise of judicial discretion, and to limitations on legal remedies against public entities.

The opinions rendered in this letter are stated only as of this date, and no other opinion shall be implied or inferred as a result of anything contained in or omitted from this letter. Our engagement as bond counsel with respect to the Series 2016B Bonds has concluded on this date.

Respectfully submitted,