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# Office Memorandum

Date: February 28, 2019

To: Legislative Reference Library

From: Myron Frans, Commissioner M

Subject: Report to the Legislature - Debt Capacity Forecast

Minnesota Statutes, Section 16A.105 requires the Commissioner of Management and Budget to prepare a debt capacity forecast to be delivered to the governor and legislature in February and November of each year.

Attached is the February 2019 debt capacity forecast.

#### Attachment

cc: Senator Paul Gazelka Representative Melissa Hortman Senator Thomas M. Bakk Representative Kurt Daudt Senator Julie Rosen Representative Lyndon Carlson Senator David Senjem Representative Mary Murphy

# Minnesota Management and Budget Debt Capacity Forecast February 2019

#### Introduction

Minnesota Statutes, Section 16A.105 requires the Commissioner of Management and Budget ("MMB") to prepare a debt capacity forecast to be delivered to the governor and legislature in February and November of each year.

#### Statement of Indebtedness

The statement of indebtedness describes the amount of debt we are currently obligated to repay. As of February 28, 2019, the state of Minnesota has outstanding principal totaling \$7,778,495,000, which includes \$6,285,450,000 in outstanding principal for general obligation bonds (both various purpose and trunk highway bonds) and \$1,493,045,000 in outstanding principal for other tax-supported obligations. Please see the attached Exhibit 1 for more detail about these obligations.

The state has no general obligation short-term notes outstanding.

#### **Debt Service Costs**

The details of the actual and forecasted debt service costs for all of the state's tax-supported debt are provided in the following table. For the purpose of this forecast, the assumption for future capital budgets for various purpose general obligation bonds is \$755 million in the even-numbered years and \$265 million in the odd-numbered years. For trunk highway bonds, the forecast amounts for existing bond authorizations have been prepared based upon information provided by the Department of Transportation and do not assume any additional bond authorizations. The column entitled "Other Tax-Supported Bonds" reflects the actual debt service obligations in each fiscal year for the non-general obligation debt identified in Exhibit 1; it does not reflect the total amount appropriated in each fiscal year for such obligations. The estimate for interest rates used for future bond issues is derived from the IHS Markit ("IHS") data used to develop the February 2019 Budget and Economic Forecast.

# **Annual Debt Service Costs**

(\$ in Thousands)

| General | Obligation | Bonds |
|---------|------------|-------|
|---------|------------|-------|

|               |                 | Trunk Highway |                 | Other Tax       |              |
|---------------|-----------------|---------------|-----------------|-----------------|--------------|
| Fiscal Year   | Various Purpose | <u>Fund</u>   | <u>Subtotal</u> | Supported Bonds | <u>Total</u> |
| 2008 actual   | \$409,426       | \$52,170      | \$461,596       | \$17,999        | \$479,595    |
| 2009 actual   | \$452,978       | \$59,542      | \$512,520       | \$24,259        | \$536,779    |
| 2010 actual   | \$429,123       | \$70,542      | \$499,665       | \$27,640        | \$527,305    |
| 2011 actual   | \$398,799       | \$45,225      | \$444,024       | \$30,393        | \$474,417    |
| 2012 actual   | \$190,799       | \$72,601      | \$263,400       | \$38,194        | \$301,594    |
| 2013 actual   | \$222,584       | \$120,305     | \$342,889       | \$49,236        | \$392,125    |
| 2014 actual   | \$619,935       | \$136,488     | \$756,423       | \$97,492        | \$853,915    |
| 2015 actual   | \$623,060       | \$154,593     | \$777,653       | \$147,149       | \$924,802    |
| 2016 actual   | \$609,285       | \$180,725     | \$790,010       | \$148,484       | \$938,494    |
| 2017 actual   | \$529,215       | \$193,539     | \$722,754       | \$150,838       | \$873,593    |
| 2018 actual   | \$563,123       | \$211,009     | \$774,133       | \$150,439       | \$924,572    |
| 2019 forecast | \$549,785       | \$214,903     | \$764,688       | \$150,675       | \$915,363    |
| 2020 forecast | \$583,865       | \$226,939     | \$810,805       | \$144,325       | \$955,130    |
| 2021 forecast | \$614,942       | \$241,266     | \$856,208       | \$142,511       | \$998,719    |
| 2022 forecast | \$639,960       | \$256,471     | \$896,431       | \$142,423       | \$1,038,855  |
| 2023 forecast | \$620,411       | \$274,512     | \$894,923       | \$140,990       | \$1,035,913  |
| 2024 forecast | \$626,568       | \$278,016     | \$904,583       | \$141,111       | \$1,045,694  |
| 2025 forecast | \$636,979       | \$278,378     | \$915,357       | \$141,393       | \$1,056,750  |

<sup>\*</sup>Totals may not add due to rounding.

# **Debt Authorized and Unissued**

As of February 28, 2019, the state has authorized but not yet issued (sold) general obligation bonds for various purposes and trunk highway purposes totaling \$2,737,492,200. In addition to the general obligation bonds, the state has authorized appropriation bonds that have not been sold. The 2014, 2015, 2017 and 2018 Legislatures authorized the sale of \$225 million of state appropriation bonds by the Housing Finance Agency to finance a housing infrastructure bonding program, of which \$99.7 million remains unissued as of February 2019. The 2015 and 2017 Legislatures also authorized \$22.5 million of state appropriation bonds for the Lewis and Clark Regional Water System project, of which \$3.5 million remains unissued as of February 2019. The 2012 Legislature authorized \$10 million in state appropriation bonds to finance the pay for performance bond program, which bonds remain unissued. The total amount of authorized and unissued tax-supported obligations is \$2,850,717,200. All other currently authorized tax-supported obligations have been issued.

# **Managing State Debt Capacity**

MMB adopted Capital Investment Guidelines in December 2009, to measure and track the debt of the state. Debt or capital investment guidelines are used to assist in decision making, communicate policy goals, provide recommendations for the structure of debt issues, and demonstrate a commitment to long-term capital and financial planning. MMB's guidelines are intended to:

- Be consistent with measures used by the credit rating agencies and foster direct comparisons with the debt burdens of other states;
- Be comprehensive to ensure all kinds of tax-supported debt obligations are recognized;
   and
- Continue Minnesota's conservative financial management practices.

Adherence to a debt management policy signals to rating agencies and the capital markets that a government is well managed and therefore is likely to meet its debt obligations in a timely manner. The Capital Investment Guidelines are:

- 1. Total tax-supported principal outstanding shall be 3.25% or less of total state personal income.
- Total amount of principal (both issued, and authorized but unissued) for state general obligations, state moral obligations, equipment capital leases, and real estate capital leases are not to exceed 6% of state personal income.
- 3. 40% of general obligation debt shall be due within five years and 70% within ten years, if consistent with the useful life of the financed assets and/or market conditions.

The first two guidelines help to determine our capacity for additional debt. Both guidelines compare the state's debt<sup>1</sup> to the state's personal income. The first comparison is what the state owes, based on the amount of debt we have sold. The second comparison is what the state would owe if all the debt that has been authorized were sold. The third guideline helps determine how well we manage how quickly we pay off our general obligation debt.

#### **Debt Capacity Guideline #1**

Guideline #1 compares the total amount of debt the state has sold and currently owes to the state's personal income. Each bonding bill authorizes MMB to sell bonds and use the proceeds for the projects identified in the bill. For any given bond authorization, we typically sell bonds over a period of years to make the funds available for the projects when needed, and not sooner. For example, if \$265 million were authorized in 2019, we assume we would sell \$53 million of

<sup>&</sup>lt;sup>1</sup> "State debt" refers to tax-supported debt and includes state general obligation debt (both various purpose and trunk highway), certificates of participation and lease revenue bonds, state issued appropriation bonds, and other issuer bonds supported by a state appropriation.

bonds in 2019, an additional \$145 million in 2020, and the remainder in the following years. It may be five years or more before the total amount authorized in each bonding bill is actually sold.

Our measure for Guideline #1 is that the amount of debt sold and currently owed does not exceed 3.25% of personal income. The state is currently within Guideline #1.

| Tax-supported principal sold                                   | \$7.778 billion   |  |  |
|--|-------------------|--|--|
| FY 2019 state personal income estimate – IHS forecast          | \$322.288 billion |  |  |
| As a percent of state personal income, not to exceed 3.25%     | 2.41%             |  |  |
| Estimate of maximum amount of tax-supported debt that could be |                   |  |  |
| sold today before exceeding Guideline #1*                      | \$2.696 billion*  |  |  |

<sup>\*</sup>Bonds authorized are typically not sold all at once; they are sold over several years.

# **Debt Capacity Guideline #2**

Guideline #2 compares the total amount of authorized state debt, including state moral obligations and equipment capital leases, to personal income. This guideline differs from the first guideline in that it includes all authorized state debt, whether it has been sold or not, and it also captures state moral obligations and equipment capital leases.

Our measure for Guideline #2 is that total debt authorized does not exceed 6% of personal income. The state is currently within Guideline #2.

| Total principal sold <u>plus</u> authorized and not yet sold | \$12.446 billion  |  |  |
|--|-------------------|--|--|
| FY 2019 state personal income estimate – IHS forecast        | \$322.288 billion |  |  |
| As a percent of state personal income, not to exceed 6.0%    | 3.86%             |  |  |
| Estimated maximum amount of additional tax-supported debt    |                   |  |  |
| that could be authorized before exceeding Guideline #2       | \$6.891 billion   |  |  |

## **Debt Capacity Guideline #3**

Guideline #3 evaluates how quickly we pay off our general obligation bonds. Our goal is that no less than 40% of our general obligation debt is paid within five years and no less than 70% within ten years. MMB structures general obligation debt to comply with this guideline.

Of the state's general obligation bonds outstanding on June 30, 2018, 42.1 percent were scheduled to mature within five years and 73.3 percent were scheduled to mature with ten years. Furthermore, of the state's general obligation bonds expected to be outstanding on June 30, 2019, 42.1 percent are scheduled to mature within five years and 73.6 percent are scheduled to mature with ten years. The state is currently within Guideline #3.

### **Maximum Debt Capacity under Current Guidelines**

The maximum debt capacity refers to the amount of additional debt that could be authorized each legislative session without exceeding our debt guidelines. This information can be used to answer the question of how big a bonding bill *could* be, but does not suggest how big a bonding bill *should* be. The table below shows the maximum annual new debt authorizations until the limit in either Guideline #1 or Guideline #2 is reached. Our calculations assume that the maximum amount of state debt would be authorized. The table also shows the additional general fund debt service costs resulting from the maximum authorizations.

| Dellare in millione                                    | FY      | FY      | FY    | FY      | FY      | FY      |
|--|---------|---------|-------|---------|---------|---------|
| Dollars in millions                                    |         | 2020    | 2021  | 2022    | 2023    | 2024    |
| Bonding Bill Assumed in Feb '19 Forecast               | \$265   | \$755   | \$265 | \$755   | \$265   | \$755   |
| Maximum New Debt Authorizations Within Debt Guidelines | \$3,175 | \$1,550 | \$650 | \$1,520 | \$1,300 | \$1,000 |
| Impact on Guideline #1                                 | 2.41%   | 2.59%   | 3.04% | 3.25%   | 3.25%   | 3.23%   |
| Impact on Guideline #2                                 | 3.86%   | 4.50%   | 4.57% | 4.36%   | 4.38%   | 4.33%   |
| Additional Debt Service Required                       | \$0     | \$62    | \$238 | \$300   | \$344   | \$384   |

#### It is IMPORTANT to note that:

- 1. The amounts listed in the "Maximum New Debt Authorizations" line could be allocated among any of the following types of debt: various purpose general obligation bonds, trunk highway general obligation bonds, state general fund appropriation bonds, certificates of participation and real estate and equipment capital leases.
- 2. The assumptions for personal income are based on the February 2019 Forecast information provided by IHS. Changes to personal income in subsequent forecasts will change the estimated capacity of both Guidelines #1 and #2.

# Capital Investment Guidelines Summary of Outstanding Principal as of 02/28/2019 As of February 2019 Budget and Economic Forecast

| All State General Obligation Debt   4,270,505,000   1,350,827,300   3,61,309,000   3,401,609,000   1,000,000   3,401,609,000  | Tax-Supported Debt (Guideline #1)  | Princi  | pal Outstanding | Authorized, Uniss | led        | Total             |
|---|--|---------|-----------------|-------------------|------------|-------------------|
| Trunk Highway Fund General Obligation Debt         2,014,945,000         1,386,664,900         3,401,609,900           Certificates of Participation (SWIP/Integrated Tax)         8,540,000         0         8,540,000           CKA Bernidij Lease Revenue Bonds         1,775,000         0         1,775,000           Other Real Estate Capital Leases:         30,775,000         0         30,775,000           Ag/health Buildings         36,855,000         0         36,855,000           MHFA Supportive Housing 2008         23,375,000         0         24,455,000           MHFA Housing Infrastructure 2014         82,065,000         1,180,000         24,455,000           MHFA Housing Infrastructure 2015         11,755,000         2,730,000         14,485,000           MHFA Housing Infrastructure 2018         19,185,00         2,730,000         36,000,000           MHFA Housing Infrastructure 2018         75,750,000         80,000,000         80,000,000           U of M:         75,750,000         1,185,000         30,000,000           MHFA Housing Infrastructure 2018         75,750,000         80,000,000         10,000,000           U of M:         75,750,000         165,860,000         10,000,000         12,655,860,000           State General Plund Appropriation Refunding Bonds         427,675,000 <td>All State General Obligation Debt</td> <td></td> <td></td> <td></td> <td></td> <td></td>  | All State General Obligation Debt  |         |                 |                   |            |                   |
| Certificates of Participation (SWIFT/Integrated Tax)         8,540,000         0         8,540,000           BCA Bemidji Lease Revenue Bonds         1,775,000         0         1,775,000           Other Real Estate Capital Leases:         V         V         30,775,000         0         30,775,000           DHS Buildings         36,855,000         0         23,375,000         0         23,375,000           MHFA Supportive Housing 2008         23,375,000         0         23,375,000         MHFA Housing Infrastructure 2012         24,455,000         0         24,455,000           MHFA Housing Infrastructure 2014         82,065,000         1,180,000         83,245,000           MHFA Housing Infrastructure 2015         11,755,000         2,730,000         14,485,000           MHFA Housing Infrastructure 2017         19,185,000         15,815,000         35,000,000           MHFA Housing Infrastructure 2018         75,750,000         0         75,750,000           U of M:         75,750,000         0         75,750,000           Biosciences Facilities         15,860,000         0         165,860,000           State General Fund Appropriation Refunding Bonds         493,195,000         0         0         427,675,000           Certificates of Participation Legislative Office Facility   | General Fund State General Obligation Debt                                   |         | 4,270,505,000   | 1,350,827,        | 300        | 5,621,332,300     |
| CA Bemidji Lease Revenue Bonds  | Trunk Highway Fund General Obligation Debt                                   |         | 2,014,945,000   | 1,386,664,        | 900        | 3,401,609,900     |
| Other Real Estate Capital Leases:         30,775,000         30,775,000           Ag/Health Buildings         30,875,000         0         36,885,000           DHS Buildings         36,885,000         0         36,885,000           MHFA Supportive Housing 2008         23,375,000         0         23,375,000           MHFA Housing Infrastructure 2012         24,455,000         1,180,000         83,245,000           MHFA Housing Infrastructure 2015         11,755,000         2,730,000         14,485,000           MHFA Housing Infrastructure 2017         19,185,000         15,815,000         35,000,000           MHFA Housing Infrastructure 2018         0         80,000,000         80,000,000           U of M:         TCF Bank Stadium         75,750,000         80,000,000         80,000,000           U of M:         TCF Bank Stadium         75,750,000         0         75,750,000           Biosciences Facilities         165,860,000         0         165,860,000           State General Fund Appropriation Refunding Bonds         493,195,000         0         493,195,000           Professional Football Stadium Appropriation Bonds         427,675,000         0         74,225,000           Lewis and Clark Regional Water System Bonds         17,560,000         3,550,000         21,060,0   | Certificates of Participation (SWIFT/Integrated Tax)                         |         | 8,540,000       |                   | 0          | 8,540,000         |
| Ag/Health Buildings 30,775,000 DHS Buildings 36,855,000 0 36,855,000 MHFA Aupportive Housing 2008 23,375,000 0 23,375,000 MHFA Housing Infrastructure 2012 24,455,000 1,180,000 24,455,000 MHFA Housing Infrastructure 2014 82,065,000 1,180,000 24,455,000 MHFA Housing Infrastructure 2015 11,755,000 2,730,000 14,485,000 MHFA Housing Infrastructure 2017 19,185,000 15,815,000 38,000,000 MHFA Housing Infrastructure 2017 19,185,000 15,815,000 38,000,000 MHFA Housing Infrastructure 2018 20 80,000,000 15,815,00   | BCA Bemidji Lease Revenue Bonds  |         | 1,775,000       |                   | 0          | 1,775,000         |
| DHS Building         36,855,000         0         36,855,000           MHFA Supportive Housing 2008         23,375,000         0         23,375,000           MHFA Housing Infrastructure 2012         24,455,000         0         23,475,000           MHFA Housing Infrastructure 2014         82,065,000         1,180,000         24,455,000           MHFA Housing Infrastructure 2015         11,755,000         2,730,000         14,85,000           MHFA Housing Infrastructure 2017         19,185,00         15,815,00         35,000,000           MHFA Housing Infrastructure 2018         0         80,000,000         85,000,000           MHFA Housing Infrastructure 2018         75,750,000         0         75,750,000           MHFA Housing Infrastructure 2018         75,750,000         0         75,750,000           MHFA Housing Infrastructure 2018         75,750,000         0         0         75,750,000           Biosciences Facilitite         75,750,000         0         0         75,750,000           Biosciences Facilitites         165,860,000         0         0         493,195,000           State General Fund Appropriation Refunding Bonds         427,675,000         0         0         427,675,000           Certificates of Participation - Legislative Office Facility <t< td=""><td>Other Real Estate Capital Leases:</td><td></td><td></td><td></td><td></td><td></td></t<>  | Other Real Estate Capital Leases:  |         |                 |                   |            |                   |
| MHFA Supportive Housing 2008         23,375,000         0         23,375,000           MHFA Housing Infrastructure 2012         24,455,000         0         24,455,000           MHFA Housing Infrastructure 2014         82,065,000         1,180,000         83,245,000           MHFA Housing Infrastructure 2015         11,755,000         2,730,000         14,485,000           MHFA Housing Infrastructure 2017         19,185,000         15,815,000         35,000,000           MHFA Housing Infrastructure 2018         0         80,000,000         16,800,000           MHFA Housing Infrastructure 2018         0         0         75,750,000           MHFA Housing Infrastructure 2018         0         0         0         75,750,000           U of MIT         0         0         0         0         427,675,000           Biosciences Facilities         1,261,260,000         0         427,675,000         0         427,675,000           Certificates of Participation - Legislative Office   | Ag/Health Buildings  |         | 30,775,000      |                   | 0          | 30,775,000        |
| MHFA Housing Infrastructure 2012         24,455,000         24,455,000           MHFA Housing Infrastructure 2015         82,065,000         1,180,000         83,245,000           MHFA Housing Infrastructure 2015         11,755,000         2,730,000         14,485,000           MHFA Housing Infrastructure 2017         19,185,000         15,815,000         35,000,000           MHFA Housing Infrastructure 2018         0         80,000,000         80,000,000           U of M:         TCF Bank Stadium         75,750,000         0         75,750,000           Biosciences Facilities         165,860,000         0         75,750,000           State General Fund Appropriation Refunding Bonds         493,195,000         0         493,195,000           State General Fund Appropriation Bonds         427,675,000         0         427,675,000           Certificates of Participation - Legislative Office Facility         74,225,000         0         74,225,000           Lewis and Clark Regional Water System Bonds         17,560,000         3,500,000         21,060,000           Pother Definations (Guideline #2)         \$ 10,000,000         10,000,000           Tax-Supported Debt (issued and authorized but unissued)         \$ 2,850,717,20         \$ 10,629,212,200           MHFA Moral Obligation Debt (issued and authorized but unissued)   | DHS Building   |         | 36,855,000      |                   | 0          | 36,855,000        |
| MHFA Housing Infrastructure 2014         82,065,000         1,180,000         83,245,000           MHFA Housing Infrastructure 2015         11,755,000         2,730,000         14,485,000           MHFA Housing Infrastructure 2017         19,185,000         15,815,000         35,000,000           MHFA Housing Infrastructure 2018         0         80,000,000         80,000,000           U of M:         TCF Bank Stadium         75,750,000         0         75,750,000           Biosciences Facilities         165,860,000         0         165,860,000           State General Fund Appropriation Refunding Bonds         493,195,000         0         493,195,000           Professional Football Stadium Appropriation Bonds         427,675,000         0         427,675,000           Certificates of Participation - Legislative Office Facility         74,225,000         0         427,675,000           Certificates of Participation - Legislative Office Facility         7,784,950,00         3,500,000         21,060,000           Pay for Performance Appropriation Bonds         7,784,950,00         2,850,717,200         10,629,212,200           Total - Tax-Supported Debt (issued and authorized but unissued)         5         1,261,240,000           MHFA Moral Obligation Debt (issued and authorized but unissued)         5         1,261,240,000     <  | MHFA Supportive Housing 2008   |         | 23,375,000      |                   | 0          | 23,375,000        |
| MHFA Housing Infrastructure 2015         11,755,000         2,730,000         14,485,000           MHFA Housing Infrastructure 2017         19,185,000         15,815,000         35,000,000           MHFA Housing Infrastructure 2018         0         80,000,000         80,000,000           U of M:         TCF Bank Stadium         75,750,000         0         75,750,000           Biosciences Facilities         165,860,000         0         165,860,000           State General Fund Appropriation Refunding Bonds         493,195,000         0         493,195,000           Professional Football Stadium Appropriation Bonds         427,675,000         0         427,675,000           Certificates of Participation - Legislative Office Facility         74,225,000         0         74,225,000           Lewis and Clark Regional Water System Bonds         17,560,000         3,500,000         21,060,000           Pay for Performance Appropriation Bonds         9         10,000,000         21,060,000           TOTAL - Tax-Supported Debt         \$         7,78,495,000         \$         10,000,000           MHFA Moral Obligation Guideline #2)         T         1         1,261,240,000           MOHE Moral Obligation Debt (1)         \$         1,261,240,000           MOHE Moral Obligation System System System Bon  | MHFA Housing Infrastructure 2012   |         | 24,455,000      |                   | 0          | 24,455,000        |
| MHFA Housing Infrastructure 2017         19,185,000         15,815,000         35,000,000           MHFA Housing Infrastructure 2018         0         80,000,000         80,000,000           U of M:         TCF Bank Stadium         75,750,000         0         0         75,750,000           Biosciences Facilities         165,860,000         0         165,860,000           State General Fund Appropriation Refunding Bonds         493,195,000         0         493,195,000           Professional Football Stadium Appropriation Bonds         427,675,000         0         427,675,000           Certificates of Participation - Legislative Office Facility         74,225,000         0         427,675,000           Lewis and Clark Regional Water System Bonds         17,560,000         3,500,000         21,060,000           Pay for Performance Appropriation Bonds         17,560,000         3,500,000         21,060,000           Pay for Performance Appropriation Bonds         17,78495,000         2,850,717,200         \$10,602,212,200           Other Obligations (Guideline #2)           Tax-Supported Debt (Issued and authorized but unissued)         \$10,602,212,200         \$10,602,212,200           MHFA Moral Obligation Debt (Issued and authorized but unissued)         \$10,602,212,200         \$10,602,212,200           Equipment Le  | MHFA Housing Infrastructure 2014   |         | 82,065,000      | 1,180,            | )00        | 83,245,000        |
| MHFA Housing Infrastructure 2018         0         80,000,000           U of M:         TCF Bank Stadium         75,750,000         0         75,750,000           Biosciences Facilities         165,860,000         0         165,860,000           State General Fund Appropriation Refunding Bonds         493,195,000         0         493,195,000           Professional Football Stadium Appropriation Bonds         427,675,000         0         427,675,000           Certificates of Participation - Legislative Office Facility         74,225,000         0         427,675,000           Lewis and Clark Regional Water System Bonds         17,560,000         3,500,000         21,060,000           Pay for Performance Appropriation Bonds         17,784,9500         3,500,000         21,060,000           Pay for Performance Appropriation Bonds         17,784,9500         2,850,717,200         10,002,000           TOTAL - Tax-Supported Debt (lissued and authorized but unissued)         2         10,629,212,200           MHFA Moral Obligation Debt (lissued and authorized but unissued)         2         1,261,240,000           MOHE Moral Obligation Debt (lissued and early samples Program (GESP) Equipment Leases         2         2,244,603,441           FY 2019 State Personal Income Estimate - IHS Forecast:         322,288,000,000         2,244,603,441   | MHFA Housing Infrastructure 2015   |         | 11,755,000      | 2,730,            | )00        | 14,485,000        |
|   | MHFA Housing Infrastructure 2017   |         | 19,185,000      | 15,815,           | )00        | 35,000,000        |
| TCF Bank Stadium         75,750,000         0         75,750,000           Biosciences Facilities         165,860,000         0         165,860,000           State General Fund Appropriation Refunding Bonds         493,195,000         0         493,195,000           Professional Football Stadium Appropriation Bonds         427,675,000         0         427,675,000           Certificates of Participation - Legislative Office Facility         74,225,000         0         74,225,000           Lewis and Clark Regional Water System Bonds         17,560,000         3,500,000         210,600,000           Pay for Performance Appropriation Bonds         0         10,000,000         10,000,000           TOTAL - Tax-Supported Debt         \$ 7,778,495,000         \$ 2,850,717,200         10,602,212,200           WHAFA Moral Obligations (Guideline #2)         \$ 7,778,495,000         \$ 2,850,717,200         \$ 10,602,212,200           MOHE Moral Obligation Debt (1)         \$ 7,778,495,000         \$ 10,602,212,200         \$ 10,629,212,200           MOHE Moral Obligation Debt (2)         \$ 10,629,212,200         \$ 10,629,212,200         \$ 10,629,212,200           Equipment Leases         \$ 10,629,212,200         \$ 10,629,212,200         \$ 10,629,212,200           Guaranteed Energy Savings Program (GESP) Equipment Leases         \$ 322,288,000,000 <t< td=""><td>MHFA Housing Infrastructure 2018</td><td></td><td>0</td><td>80,000,</td><td>)00</td><td>80,000,000</td></t<>  | MHFA Housing Infrastructure 2018   |         | 0               | 80,000,           | )00        | 80,000,000        |
| Biosciences Facilities 165,860,000 0 165,860,000 State General Fund Appropriation Refunding Bonds 493,195,000 0 493,195,000 Professional Football Stadium Appropriation Bonds 427,675,000 0 427,675,000 Certificates of Participation - Legislative Office Facility 74,225,000 0 74,225,000 Lewis and Clark Regional Water System Bonds 17,560,000 3,500,000 21,060,000 Pay for Performance Appropriation Bonds 0 17,560,000 1,0000,000 10,000,000 TOTAL - Tax-Supported Debt  \$7,778,495,000 \$2,850,717,200 \$10,000,000 10,000,000 TOTAL - Tax-Supported Debt (issued and authorized but unissued) \$10,629,212,200 \$10,629,21 |  |         |                 |                   |            |                   |
| State General Fund Appropriation Refunding Bonds 493,195,000 0 493,195,000 Professional Football Stadium Appropriation Bonds 427,675,000 0 427,675,000 Certificates of Participation - Legislative Office Facility 74,225,000 0 74,225,000 Lewis and Clark Regional Water System Bonds 17,560,000 17,560,000 0 3,500,000 21,060,000 Pay for Performance Appropriation Bonds 0 17,560,000 0 10,000,000 0 10,000,000 0 0 10,000,00  | TCF Bank Stadium   |         | 75,750,000      |                   | 0          | 75,750,000        |
| Professional Football Stadium Appropriation Bonds 427,675,000 0 427,675,000 Certificates of Participation - Legislative Office Facility 74,225,000 1 74,225,000 1 74,225,000 1 74,225,000 1 74,225,000 1 74,225,000 1 74,225,000 1 74,225,000 1 75,600,000 1 74,225,000 1 75,600,000 1  | Biosciences Facilities   |         | 165,860,000     |                   | 0          | 165,860,000       |
| Certificates of Participation - Legislative Office Facility 74,225,000 174,225,000 18,3500,000 21,060,000 19,000,000 19,000,000 10,000,000 10,000,000 10,000,00   |  |         |                 |                   | 0          |                   |
| Lewis and Clark Regional Water System Bonds 17,560,000 21,060,000 Pay for Performance Appropriation Bonds 0 10,000,000 10,000,000 10,000,000 10,000,00  |  |         |                 |                   | 0          |                   |
| Pay for Performance Appropriation Bonds 0 10,000,000 10,000,000 10,000,000 10,000,00  | Certificates of Participation - Legislative Office Facility                  |         | 74,225,000      |                   | 0          | 74,225,000        |
| TOTAL - Tax-Supported Debt \$ 7,778,495,000 \$ 2,850,717,200 \$ 10,629,212,200  Other Obligations (Guideline #2)  Tax-Supported Debt (issued and authorized but unissued) \$ 10,629,212,200  MHFA Moral Obligation Debt (1) \$ 1,261,240,000  MOHE Moral Obligation Debt Equipment Leases \$ 500,935,000  Equipment Leases Guaranteed Energy Savings Program (GESP) Equipment Leases \$ 2,028,457  Guaranteed Energy Savings Program (GESP) Equipment Leases \$ 322,288,000,000  State Tax-Supported Debt as a Percent of Personal Income: \$ 2,41%  Estimated maximum additional principal capacity for all tax-supported debt @ 3.25% \$ 2,695,865,000  All Obligations as a Percent of Personal Income: \$ 3.86%   |  |         | 17,560,000      |                   |            |                   |
| Other Obligations (Guideline #2)Tax-Supported Debt (issued and authorized but unissued)\$ 10,629,212,200MHFA Moral Obligation Debt (1)1,261,240,000MOHE Moral Obligation Debt500,935,000Equipment Leases42,028,457Guaranteed Energy Savings Program (GESP) Equipment Leases12,618,784TOTAL - All Obligations\$ 12,446,034,441FY 2019 State Personal Income Estimate - IHS Forecast:\$ 322,288,000,000State Tax-Supported Debt as a Percent of Personal Income:2.41%Estimated maximum additional principal capacity for all tax-supported debt @ 3.25%\$ 2,695,865,000All Obligations as a Percent of Personal Income:3.86%  | Pay for Performance Appropriation Bonds                                      |         | <u>0</u>        | <u>10,000,</u>    | <u>)00</u> | 10,000,000        |
| Tax-Supported Debt (issued and authorized but unissued)  MHFA Moral Obligation Debt (1)  MOHE Moral Obligation Debt  Equipment Leases  Guaranteed Energy Savings Program (GESP) Equipment Leases  TOTAL - All Obligations  TY 2019 State Personal Income Estimate - IHS Forecast:  State Tax-Supported Debt as a Percent of Personal Income:  Estimated maximum additional principal capacity for all tax-supported debt @ 3.25%  All Obligations as a Percent of Personal Income:  3.86%   | TOTAL - Tax-Supported Debt   | \$      | 7,778,495,000   | \$ 2,850,717,2    | 00 \$      | \$ 10,629,212,200 |
| MHFA Moral Obligation Debt (1) MOHE Moral Obligation Debt (20) Equipment Leases (20) Guaranteed Energy Savings Program (GESP) Equipment Leases (20) TOTAL - All Obligations (20) State Personal Income Estimate - IHS Forecast: (20) State Tax-Supported Debt as a Percent of Personal Income: (20) Estimated maximum additional principal capacity for all tax-supported debt (20) 3.25% (20) All Obligations as a Percent of Personal Income: (3)  All Obligations as a Percent of Personal Income: (3)  All Obligations as a Percent of Personal Income: (3)  All Obligations as a Percent of Personal Income: (3)  All Obligations (4)  | Other Obligations (Guideline #2)   |         |                 |                   |            |                   |
| MHFA Moral Obligation Debt (1) MOHE Moral Obligation Debt (20) Equipment Leases (20) Guaranteed Energy Savings Program (GESP) Equipment Leases (20) TOTAL - All Obligations (20) State Personal Income Estimate - IHS Forecast: (20) State Tax-Supported Debt as a Percent of Personal Income: (20) Estimated maximum additional principal capacity for all tax-supported debt (20) 3.25% (20) All Obligations as a Percent of Personal Income: (3)  All Obligations as a Percent of Personal Income: (3)  All Obligations as a Percent of Personal Income: (3)  All Obligations as a Percent of Personal Income: (3)  All Obligations (4)  | Tax-Supported Debt (issued and authorized but unissued)                      |         |                 |                   | 3          | \$ 10,629,212,200 |
| MOHE Moral Obligation Debt  Equipment Leases Guaranteed Energy Savings Program (GESP) Equipment Leases  TOTAL - All Obligations  FY 2019 State Personal Income Estimate - IHS Forecast: State Tax-Supported Debt as a Percent of Personal Income:  Estimated maximum additional principal capacity for all tax-supported debt @ 3.25%  All Obligations as a Percent of Personal Income:  3.86%  | MHFA Moral Obligation Debt (1)   |         |                 |                   |            | 1.261.240.000     |
| Equipment Leases Guaranteed Energy Savings Program (GESP) Equipment Leases  TOTAL - All Obligations  FY 2019 State Personal Income Estimate - IHS Forecast: State Tax-Supported Debt as a Percent of Personal Income:  Estimated maximum additional principal capacity for all tax-supported debt @ 3.25%  All Obligations as a Percent of Personal Income:  3.86%  |  |         |                 |                   |            |                   |
| Guaranteed Energy Savings Program (GESP) Equipment Leases 12,618,784  TOTAL - All Obligations \$ 12,446,034,441  FY 2019 State Personal Income Estimate - IHS Forecast: \$ 322,288,000,000 State Tax-Supported Debt as a Percent of Personal Income: 2.41% Estimated maximum additional principal capacity for all tax-supported debt @ 3.25% \$ 2,695,865,000  All Obligations as a Percent of Personal Income: 3.86%  | -  |         |                 |                   |            |                   |
| TOTAL - All Obligations \$ 12,446,034,441  FY 2019 State Personal Income Estimate - IHS Forecast: \$ 322,288,000,000 State Tax-Supported Debt as a Percent of Personal Income: 2.41% Estimated maximum additional principal capacity for all tax-supported debt @ 3.25% \$ 2,695,865,000  All Obligations as a Percent of Personal Income: 3.86%  |  |         |                 |                   |            |                   |
| FY 2019 State Personal Income Estimate - IHS Forecast:  State Tax-Supported Debt as a Percent of Personal Income:  Estimated maximum additional principal capacity for all tax-supported debt @ 3.25%  All Obligations as a Percent of Personal Income:  3.86%  |  |         |                 |                   | (          | , ,               |
| State Tax-Supported Debt as a Percent of Personal Income:  Estimated maximum additional principal capacity for all tax-supported debt @ 3.25%  All Obligations as a Percent of Personal Income:  3.86%  | •  |         |                 |                   |            | 7 12,440,034,441  |
| Estimated maximum additional principal capacity for all tax-supported debt @ 3.25% \$ 2,695,865,000  All Obligations as a Percent of Personal Income: 3.86%   |  |         |                 | \$ 322,288,000,0  | 00         |                   |
| All Obligations as a Percent of Personal Income: 3.86%  | •                                      |         |                 |                   |            |                   |
|   | Estimated maximum additional principal capacity for all tax-supported debt @ | 9 3.25% |                 | \$ 2,695,865,0    | 00         |                   |
|   | All Obligations as a Percent of Personal Income:                             |         |                 | 3.8               | 6%         |                   |
|   |  |         |                 | \$ 6,891,245,5    | 59         |                   |

<sup>(1)</sup> MHFA has a \$5 billion statutory debt limit. However, several of the MHFA bonding programs are not issued as Moral Obligation debt. The bond programs that are not included because they are not secured by a debt service reserve fund subject to replenishment from Legislative appropriation are the conduit multifamily revenue bonds and bonds issued under Home Ownership Mortgage-backed Exempt Securities and Homeownership Finance Bonds.