

2021



State Debt Policy Advisory Commission

Commission Report
January 6, 2021



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Oregon State Treasurer, *Ex-Officio Member*

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Oregon Bonding Process

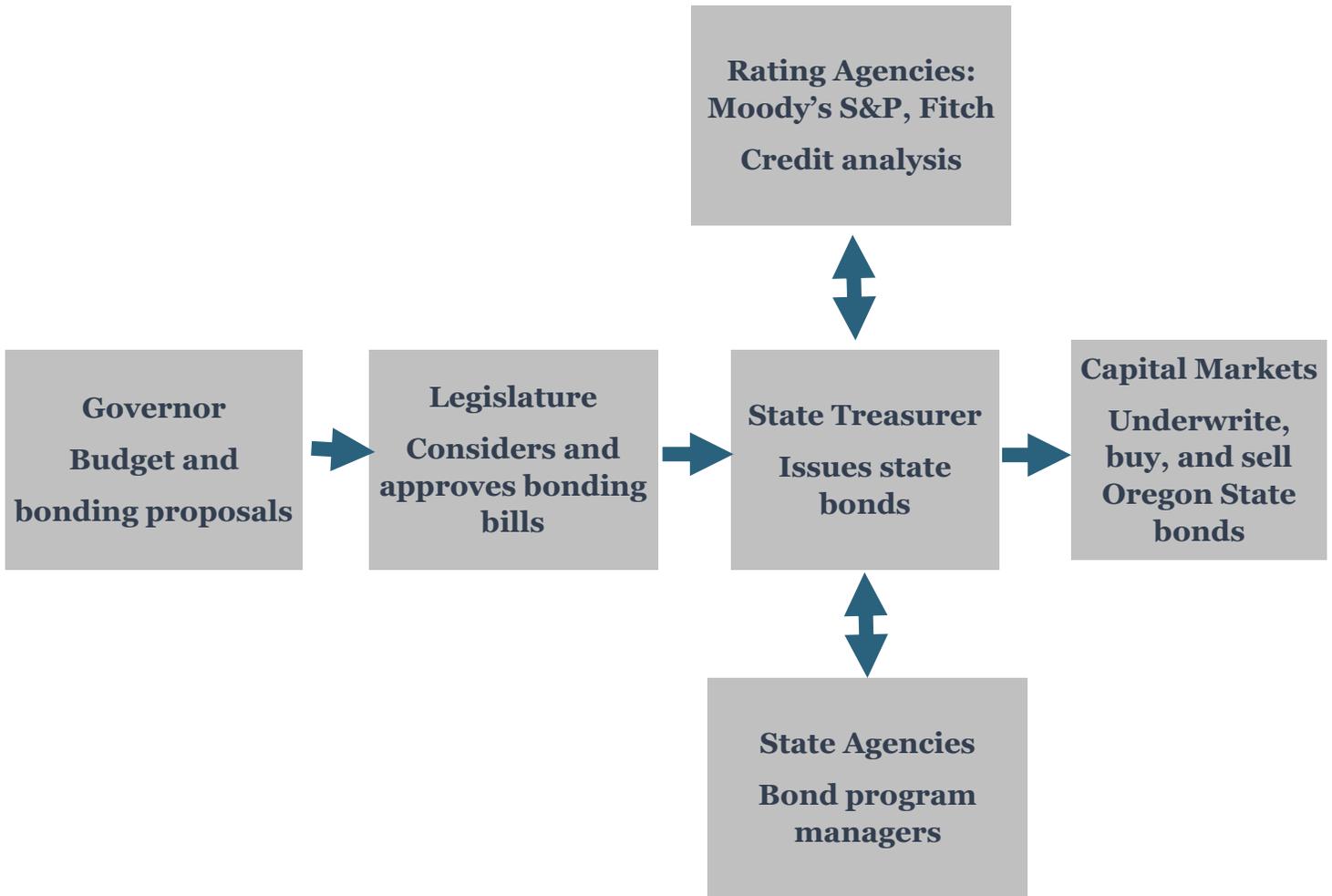


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STATE DEBT POLICY ADVISORY COMMISSION

January 5, 2021

Governor Brown and Members of the 2021 Oregon Legislature:

I am pleased to provide you with the *2021 Commission Report* from the State Debt Policy Advisory Commission (the “Commission”). The Commission serves to advise the Governor and Legislature on policies related to State debt and long-term capital financing. This report intends to provide policymakers with an overview of the State’s long-term bonding capacity and to highlight emerging policy issues of concern in the debt arena.

After entering the 2019-21 biennium with great optimism, our State and nation have been overshadowed by the economic and social impacts of the highly infectious novel coronavirus (COVID-19). We applaud your efforts in acting quickly and decisively to avert the potential human costs of this virus, by declaring a state of emergency on March 8, 2020 and subsequently instituting executive orders, guidelines and measures to curtail the spread of COVID-19 among our citizens.

Our State has also had to face wildfires, at a level previously unseen in the State’s history. Again, we recognize your leadership in invoking the Emergency Conflagration Act, mobilizing resources of the Oregon Office of State Fire Marshal and obtaining a Presidential Disaster Declaration that makes federal resources available for response, cleanup, restoration and remedial actions to mitigate the potential impacts of future wildfires.

These challenges will have economic, educational, social, and human costs that will have long enduring effects. The reduction in economic activity has resulted in high unemployment, loss of businesses, increase in the homeless population and greater need for affordable housing and human services. In the face of these challenges, our State has demonstrated strong economic resilience and effective management and stewardship of the State’s resources, which permit us to invest our resources in infrastructure, economic development and projects that will have consequential long-term benefits for Oregonians.

This 2021 Commission Report evaluates the State’s bonding capacity using the results of the December 2020 Oregon Economic and Revenue Forecast (the “December 2020 Forecast”), compiled by the Department of Administrative Services Office of Economic Analysis (OEA) and released on November 18, 2020. This analysis also incorporates market financing factors and subsequent events that impact revenues of the State to provide you with an overview of the State’s debt capacity and the impact of bond authorizations by the 2019 and 2020 Legislatures.

- Based on General Fund revenue forecast contained in the December 2020 Forecast, the State’s issuance of approximately \$1.14 billion of General Fund supported debt authorized by the 2019 and 2020 Legislatures for the 2019-21 biennium remains well within the Commission’s recommended General Fund debt capacity limits. We note that \$199 million

was issued in fiscal year (FY) 2020 and the remaining \$940 million of authorization is on track to be issued by the end of FY 2021. Further, we estimate that the State can issue up to \$1.56 billion in General Fund-supported debt in each of the next four biennia commencing with the 2021-23 biennium through the 2027-29 biennium, for a total of \$6.25 billion, while remaining within our overall debt capacity target of 5 percent of General Fund-supported debt service to General Fund revenue.

- The December 2020 Forecast also provides for maximum biennial Lottery Revenue debt capacity of \$407 million for each of the next four biennia, for a total of \$1.63 billion for the forecast period (FY 2022 through FY 2029). In addition, using Lottery Revenue projection in the December 2020 Forecast, our models indicate, that if projected Lottery Revenue is realized in FY 2021, the State could issue \$159 million of its 2019-21 biennium authorized bond amount of \$247 million.

Since release of the December 2020 Forecast, Lottery Revenue has declined materially due in part to disabling of video lottery games in response to the temporary freeze imposed by Executive Order (EO) 20-65 and continuing restrictions implemented by EO 20-66. As of December 18, 2020, the Oregon State Lottery (OSL) estimates that these measures will result in \$71 million reduction in Lottery Revenue from November 15, 2020 through December 31, 2020. The reduction of Lottery Revenue due to continued closures, has eroded the capacity to issue new Lottery debt for the 2019-21 biennium and could potentially reduce capacity in future biennia.

Our State's strong financial management practices, including prudent management of debt, history of balanced budgets, and strong budgetary reserves, have resulted in the State achieving ratings of AA+/Aa1/AA+ by Standard & Poor's, Moody's Investors Service, and Fitch Ratings respectively for the State's General Obligation Bonds. Our Lottery Revenue bond program has current ratings of AAA and Aa2 by Standard & Poor's and Moody's Investors Service respectively.

Looking forward, Oregon will be well served by maintaining our long-standing commitment to fiscal discipline in the authorization and issuance of State bonds. Debt is a powerful tool that can enhance the State's economic development, improve our public institutions, and build the capacity for future generations to compete and flourish. In the upcoming 2021-23 biennium, the Legislature will be faced with addressing critical issues arising from COVID-19, wildfires, social unrest, and the ongoing infrastructure replacement and maintenance needs. These issues are broad and require investment in affordable housing, education, human services, and future resiliency.

As you make decisions critical to Oregon's long-term financial health, please consider the Commission and its staff as a resource available to you at any time.

Sincerely,

Tobias J. Read, State Treasurer
Chair, State Debt Policy Advisory Commission

2021 STATE DEBT POLICY ADVISORY COMMISSION REPORT: EXECUTIVE SUMMARY

Public borrowing is an important tool in Oregon’s efforts to improve the State’s infrastructure, educational capacity, and public buildings that impact the state’s economy and the quality of life of Oregonians for generations to come. However, public borrowing must be used carefully because the resulting debt repayment becomes a fixed cost in future State budgets and an over-reliance on borrowing can cause deterioration in the State’s credit ratings, resulting in higher borrowing costs and potentially limited future budgeting flexibility.

Oregon Revised Statutes 286A.250 to 286A.255 establishes the State Debt Policy Advisory Commission. In accordance with these statutes, the five-member Commission is chaired by the State Treasurer and consists of a public member appointed by the Governor, an appointee from the Senate, an appointee from the House of Representatives, and the Director of the Department of Administrative Services. The Commission is charged with advising the Governor and the Legislative Assembly regarding policies and actions that will enhance and preserve the State’s credit rating and maintain the future availability of low-cost capital financing. In carrying out this function, the Commission is required to prepare an annual report to the Governor and the Legislative Assembly as to the available debt capacity of the State of Oregon.

For the 2019-21 biennium, the Commission’s *2019 Commission Report* was published January 25, 2019. An update of this report, entitled the *2020 Legislative Update*, was published on January 28, 2020 which incorporated the impact on the bonding authorizations of the 2019 Legislature and General Fund and Lottery Revenue projections of the Office of Economic Analysis (OEA) on the State’s long-term debt capacity for the 2019-21 biennium.

This *2021 Commission Report* is intended to provide a comprehensive overview of the State’s current debt position, taking into consideration the State’s outstanding debt as of FY 2020, the most recent long-term revenue projections contained in OEA’s December 2020 Forecast, and the impact of additional bonding authorizations adopted by the 2019 Legislature and amended by the 2020 Second Special Session (2019-21 Biennium Bond Bill). This report will also consider the continuing economic impact on State revenues arising from measures applied to address the COVID-19 pandemic and wildfires.

This report evaluates debt capacity and debt burden for State bonding programs in four major categories: General Fund-supported debt, Lottery Revenue debt, net tax-supported debt, and non-tax supported debt.

The Commission’s findings are briefly outlined below and discussed in detail in the report itself.

COVID-19

Since January 2020, the State and the nation as a whole has been engaged in responding to the public health threat posed by the novel infectious coronavirus (COVID-19), which has been declared a pandemic by the World Health Organization. At the national level, the Federal government and the Federal Reserve Board have taken legislative and regulatory actions and implemented measures to mitigate the broad disruptive effects of the COVID-19 pandemic. In addition to other Federal relief efforts, the Coronavirus Aid, Relief and Economic Security Act (the “CARES Act”) established a \$150 billion Coronavirus Relief Fund (“CRF”) which, among other things, provided financial assistance to states and local governments. Oregon received a total

of \$1.635 billion of CRF dollars, and after the direct allocations to eligible local government jurisdictions, the State received a direct allocation of \$1.389 billion.

In light of the health, business and economic activity attributable to the COVID-19 pandemic, OEA continues to monitor the impacts of mandated closures of establishments on economic data and revenue forecasts. The December 2020 Forecast reported that long-term unemployment has risen in the State since the onset of the pandemic, with approximately 55,000 Oregonians looking for work for at least six months as of October 2020, as compared to approximately 13,000 prior to the pandemic. As of October 2020, the seasonally adjusted unemployment rate in the State was 6.9 percent.

Recent introduction of a COVID-19 vaccine is a welcome relief to many front-line workers and the most vulnerable members of our community. It is anticipated, however, that broad distribution of the vaccine could extend to June 2021 or later. As a result, the Commission expects a continuation of efforts and financial resources directed to containing the spread of COVID-19 until a sufficient percentage of the population is vaccinated to curtail the spread of virus.

Financial Impacts of COVID-19 on Lottery Proceeds and Lottery Revenue Bonds

Temporary closure of restaurants and bars during the pandemic in various counties has resulted in the Oregon State Lottery (OSL) disabling play on video lottery terminals in applicable counties. Historically, video gaming has represented approximately 70 percent of all Lottery Revenue.

Lottery Revenue has shown significant volatility as video lottery has been severely impacted by the closure of restaurants, bars and gathering facilities. While the December 2020 Forecast showed a lower decline in Lottery Revenue for FY 2021 than originally forecasted, the estimate pre-date the recent temporary freeze authorized in EO 20-65 and the additional closures in select counties categorized as Extreme Risk, as provided for in EO 20-66.

For the fiscal year ended June 30, 2020, Lottery Revenue was \$698.8 million. The December 2020 Forecast projects \$581.9 million for FY 2021, for a total of approximately \$1.28 billion for the 2019-21 biennium, a decrease of approximately \$194.8 million or 13.2 percent from the \$1.46 billion contained in OEA's Economic and Revenue Forecast released in November 2019, prior to the declaration of the pandemic. Further, as of December 18, 2020, OSL estimates that Lottery Revenue is expected to decline by an additional \$71 million for the period of December 3, 2020 through December 31, 2020 due to recent measures implemented to stem the spread of COVID-19. Continued closure of select counties categorized as Extreme Risk could result in Lottery Revenue reductions of \$45 million for each month that the current 20 counties designated Extreme Risk remain in this category.

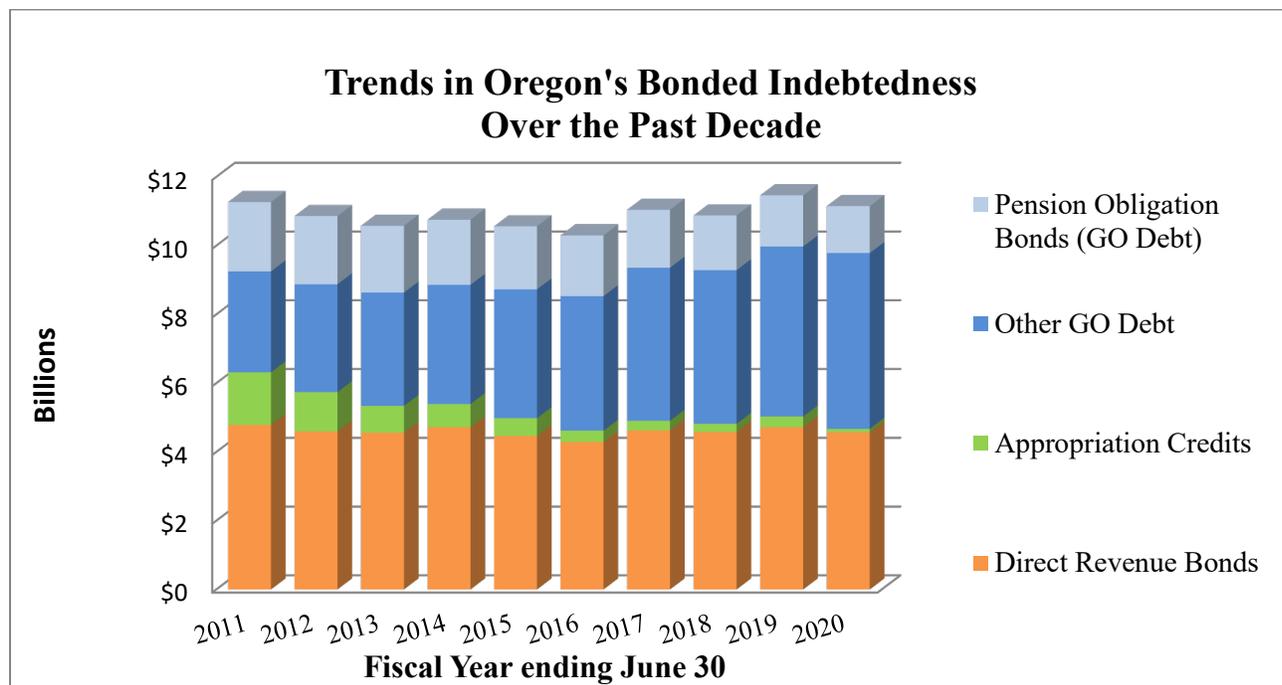
This estimated decline in Lottery Revenue since the December 2020 Forecast has reduced debt service coverage on outstanding Lottery Revenue Bonds from 5.2 times in FY 2020 to 3.8 times, which is below the minimum debt service coverage ratio of 4.0 that is required in order to issue new Lottery Revenue Bonds. As a result, the Commission expects that Lottery Revenue realized in FY 2021 will be insufficient to provide for the issuance of any of the State's 2019-21 biennium authorization of \$247 million of Lottery Revenue bonds under the current indenture.

The next Oregon Economic and Revenue Forecast is expected to be released on or about February 24, 2021 (the "March 2021 Forecast").

Overall State Debt Levels

Oregon’s combined long-term general obligation, appropriation and revenue bond debt outstanding was \$11.2 billion as of June 30, 2020.¹ This represents a decrease of \$300 million compared to the approximate \$11.5 billion recorded at the end of the 2019 fiscal year.

The following chart displays the ten-year trend in overall state indebtedness. While overall State debt levels have not increased much since FY 2011, the mix of debt outstanding has shifted, with the reduction in outstanding appropriation debt replaced with lower cost general obligation bonds. Given the State’s long-term commitment to managing its debt capacity in a prudent manner, new debt issuances have been timed for issuance at roughly the same pace and amounts that existing debt has been scheduled for retirement. This includes the approximately \$2.0 billion in pension obligation bonds issued in 2003 to address its unfunded Public Employee Retirement System (PERS) liability, and which is scheduled to fully amortize by FY 2027.



General Fund-supported Debt

The total debt outstanding for General Fund-supported State debt was \$3.9 billion as of June 30, 2020. This amount is expected to increase to \$4.6 billion by the end of the 2019-21 biennium assuming the retirement of approximately \$273 million in existing debt and the issuance of the remaining \$940 million in new General Fund-supported debt in FY 2021, as authorized in the 2019-21 Biennium Bond Bill. Based on the December 2020 Forecast and the planned timing of authorized bond sales over the balance of the biennium, we project that debt service as a percentage of General Fund revenues will approximate 3.5% in FY 2021, which is well within the Commission’s General Fund-supported debt capacity target of 5.0%

Using this maximum target debt ratio of 5.0% going forward, the Commission estimates the State has approximately \$6.25 billion in additional General Fund-supported debt capacity over the next

¹ Excludes conduit or “pass through” revenue bonds.

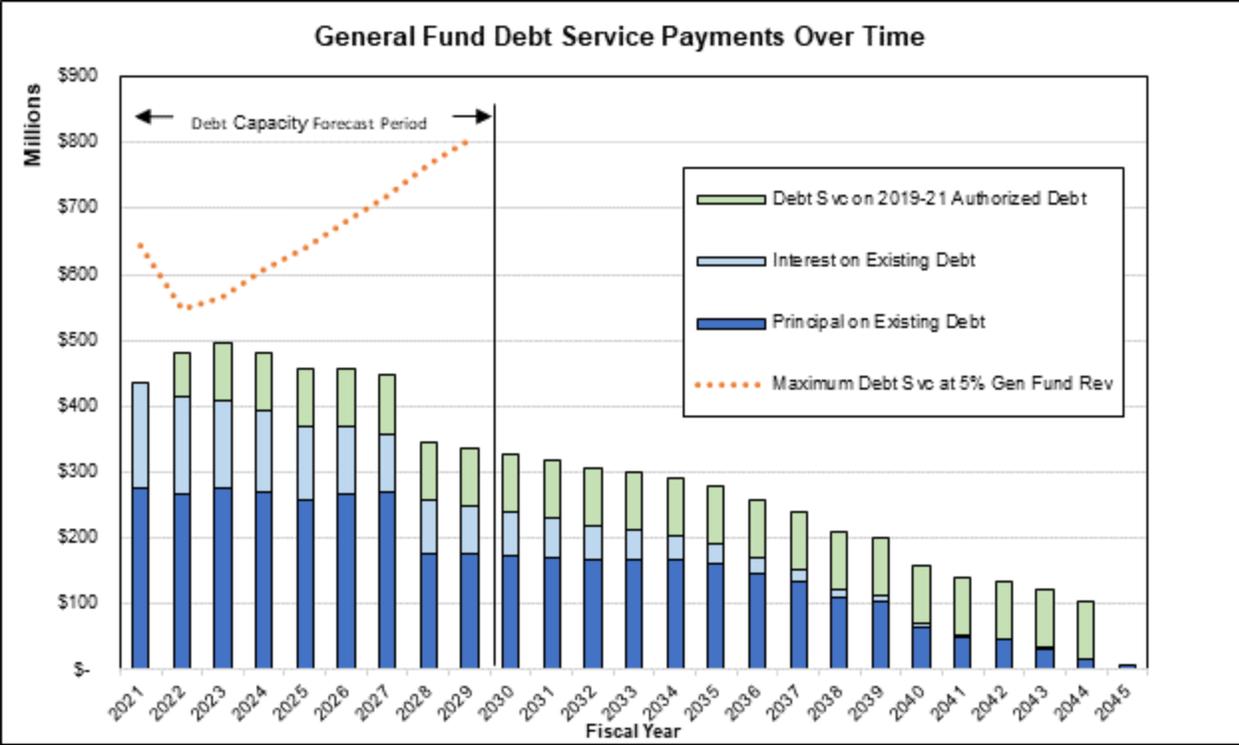
four biennia in addition to the \$1.14 billion in General Fund-supported debt already authorized for sale in this biennium.

Historically, the Commission has recommended that the State spread out this remaining General Fund debt capacity over time, which would result in a maximum of \$781.9 million each year or \$1.56 billion for each biennium during the forecast period. This “averaging” approach has served the State well over the years, as it has helped to mitigate the impact of fluctuations in the State’s revenues and long-term interest rates which together can significantly impact the State’s long-term debt capacity and allows for more consistent long-term capital planning and budgeting. The following table illustrates the General Fund debt capacity over the next four biennia.

**Projected Debt Capacity for
General Fund Supported Debt Programs*
(\$ Millions)**

Fiscal Year Ending June 30	Maximum Annual Amount of Debt Issuance within 5% Target Capacity	GF Debt Service as a % of General Fund Revenues	SDPAC’s Recommended Maximum Annual Amount of Debt Issuance	GF Debt Service as a % of General Fund Revenues
2022	683.6	5.0%	781.9	5.1%
2023	291.7	5.0%	781.9	5.4%
2024	797.6	5.0%	781.9	5.4%
2025	721.4	5.0%	781.9	5.4%
2026	512.8	5.0%	781.9	5.5%
2027	625.1	5.0%	781.9	5.6%
2028	2,044.2	5.0%	781.9	4.9%
2029	578.6	5.0%	781.9	5.0%
Total	\$6,254.9		\$6,254.9	
* Assumes the issuance of \$1.14 billion in General Fund-supported bonds authorized by the 2019-21 Biennium Bond Bill				

The following graph illustrates the State’s outstanding General Fund debt profile, which has higher debt service in the earlier years and declining debt service over time. Lower future debt service provides the State with the capacity to issue additional debt while remaining under its target debt service to General Fund revenue limit. The dotted line on the chart illustrates the growth in debt service if the State issues the maximum General Fund debt capacity over the forecast period. As also indicated in the graph, there is a considerable drop in debt service after FY 2027, which is when the final payment on the State’s outstanding 2003 issue of pension obligation bonds (POBs) will be made. Even with averaging of debt issuance, the extension of the forecast period to include the two fiscal years after the final POB payment, shows that significant additional General Fund debt capacity becomes available while still remaining within prudent overall debt limits.



Lottery Revenue Bond Debt

Total Lottery Revenue Bonds outstanding was \$1.1 billion as of June 30, 2020. The covenants in the Lottery Revenue Bond Indenture require a minimum debt service coverage ratio of Unobligated Net Lottery Proceeds to Lottery Revenue Bond debt service of four times. Based on the December 2020 Forecast, the Commission projects that there is approximately \$1.63 billion in Lottery Revenue bond capacity available over the next four biennia, or \$407 million average for each biennium in the forecast period (FY 2022 through FY 2029). The December 2020 Forecast projects FY 2021 Lottery Revenue that, if realized, would support the issuance of \$159 million of the authorized \$247 million of Lottery Revenue Bonds in the current biennium.

We note however that EO 20-65 and EO 20-66, discussed above, is expected to result in a decline in Lottery revenue of \$71 million from November 15, 2020 through December 31, 2020. This reduction in Lottery Revenue has fully eroded any capacity to issue Lottery Revenue debt in the 2019-21 biennium under the Lottery Revenue Bond Indenture. Further, continuation of closures in counties designated Extreme Risk could reduce Lottery Revenue debt capacity in FY 2022. Additional future issuance will be determined in part by 1) the extent of continued closures, 2) resiliency of lottery gaming activities, 3) effective control of the COVID-19 virus, 4) changes in gaming platforms and patrons’ gaming activities.

With low interest rates, there are opportunities to refund outstanding Lottery Revenue Bonds for present values savings in FY 2021, subject to the continuation of a low interest rate environment. The issuance of refunding bonds to generate cash flow savings will improve future debt capacity.

The following table provide details of Lottery Revenue debt capacity over the next four biennia using the December 2020 Forecast.

**Projected Debt Capacity for
Lottery Revenue Bond Program
Using December 2020 Forecast*
(\$ Millions)**

Fiscal Year Ending June 30	Maximum Annual Amount of Debt That Can be Issued within Debt Service Coverage Requirements	Debt Ratio Coverage (Times)	Debt Service as a % of Lottery Revenue	SDPAC's Recommended Maximum Annual Amount of Debt That Should Be Issued	Debt Ratio Coverage (Times)	Debt Service as a % of Lottery Revenue
2022	297.7	4.0	25%	203.5	4.5	22%
2023	170.9	4.0	25%	203.5	4.0	23%
2024	123.1	4.0	25%	203.5	3.3	24%
2025	108.2	4.0	25%	203.5	2.8	25%
2026	151.4	4.0	25%	203.5	2.3	26%
2027	193.2	4.0	25%	203.5	1.9	26%
2028	329.3	4.0	25%	203.5	1.7	25%
2029	254.3	4.0	25%	203.5	1.4	25%
Total	\$1,628.0			\$ 1,628.0		

*Maintains initial forecasted Lottery revenue bond debt service on the FY 2021 issuance of \$159 million of the \$247 authorized issuance as was determined using the December 2020 Forecast.

Other Lottery Revenue Considerations

The Commission cautions that unobligated net Lottery proceeds are a scarce resource and due to the relatively volatile nature of this revenue source, its use should remain constrained. In addition to funding Lottery Revenue bond debt service, net Lottery Revenue funds critical educational and economic development programs throughout the State. Further, SB 1049, enacted in 2019, allocates revenues from Sports Betting to reduce the State's portion of Oregon Public Employees Retirement System (PERS unfunded actuarial liability (UAL) and stabilize the State's PERS contribution levels. Lottery Revenue is pledged and applied *a priori* to repayment of Lottery Revenue bond debt service annually and is not available for other purposes until after Lottery Revenue bond debt service requirement is satisfied. Further, no superior liens can be placed ahead of Lottery Revenue bond debt service until these bonds are repaid in full.

Therefore, the Commission recommends that the Legislature and Governor continue to direct the use of Lottery bond proceeds to the most critical State projects so that sufficient Lottery Revenue continues to be available to fund the on-going operations of various State programs that rely on Lottery funding.

Net Tax-Supported Debt

As a geographically large state with an extensive highway network and a growing population, Oregon has issued Highway User Tax, Lottery Revenue, and General Obligation bonds to address deferred maintenance and critical building and infrastructure needs around the State. In addition, the State issued approximately \$2.1 billion in pension obligation bonds in 2003 to address its unfunded PERS liability.

Net Tax Supported Debt (NTSD) includes General Fund-supported debt, Pension Obligation Bonds, Certificates of Participation (COPS) and other appropriations debt, Lottery Revenue Bonds and State Highway User Tax Revenue Bonds, as determined by the rating agencies in their evaluation of the State’s overall debt burden.

At the end of FY 2019, Oregon’s outstanding NTSD was roughly \$8.7 billion. By the end of FY 2021, this amount is projected to increase by \$600 million to \$9.3 billion, as existing NTSD is retired and new General Obligation, Highway User Tax and Lottery Revenue bonds authorized by the 2019-21 Biennium Bond Bill are sold to investors. This will increase the State’s debt per capita ratio and debt as a percentage of personal income.

Oregon’s NTSD as projected for FY 2021 is above the median of 2.6 percent for all states as reported by Moody’s investor services in its May 2020 report: *Moody's – Median's – State debt declined in 2019, but likely to grow in coming years.*

State of Oregon Net Tax-Supported Debt Ratios (Change from End of Last Biennium)

Fiscal Year Ending June 30 th			
(\$ billions)	FY 2019 (Actual)	FY 2020 (Actual)	FY 2021 (Projected)
Net Tax-Supported Debt	\$ 8.70	\$ 8.39	\$9.30
Population*	4,236,400	4,268,055	4,290,100
Personal Income *	\$224.3	\$238.3	\$234.5
NTSD Per Capita	\$2,055	\$ 1,966	\$ 2,168
NTSD as a % of Personal Income	3.88%	3.52%	3.97%
<i>Pension Obligation Bonds Excluded</i>			
NTSD Per Capita	\$1,703	\$1.645	\$1,881
NTSD as a % of Personal Income	3.22%	2.95%	3.44%

*Source: Oregon Office of Economic Analysis, December 2020 Economic and Revenue Forecast

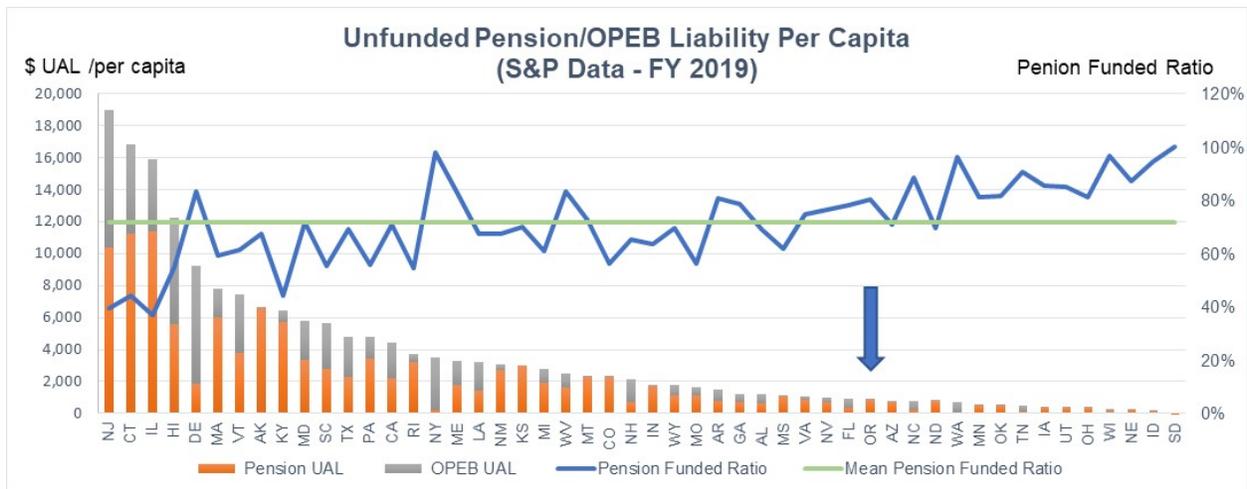
The bond rating agencies typically calculate total NTSD both with and without pension obligation bonds. Consequently, states that issue POBs are not overly penalized when compared to other states with a relatively low debt burden, but have sizable unfunded pension liabilities. When pension obligation bonds are excluded from this NTSD calculation, our projected FY 2021 debt burden increases to \$1,881 per capita and 3.44 percent of personal income.

In recent years, the national rating agencies have placed more emphasis on states' overall balance sheet liability, which includes their public net tax-supported debt as well as unfunded actuarial pension and other post-employment benefits (OPEB) liability. The following table adds the State's unfunded pension and OPEB liability to net tax supported debt over the last several years.

Oregon Balance Sheet Liability Ratios (NTSD and Unfunded Liability)			
\$ billion	FY 2018	FY 2019	FY 2020
Net Tax Supported Debt	\$8.23	\$8.70	\$8.39
State Net Pension & OPEB Liability ¹	4.68	6.26	5.86
Total Balance Liability	\$12.91	\$14.96	\$14.25
Population	4,195,300	4,236,400	4,268,055
Balance Sheet Liability Per Capita	\$3,077	\$3,532	\$3,338
Personal Income	\$215.40	\$224.30	\$238.30
Balance Sheet Liability - Percent of Personal Income	5.99%	6.67%	5.98%
Gross State Product ("GSP")	\$227.04	\$241.98	\$253.62
Balance Sheet Liability - Percent of GSP	5.69%	6.18%	5.62%

¹ Pension data represent the calendar year preceding the close of Fiscal Year

The following chart illustrates comparative unfunded pension and OPEB obligations for each of the 50 states as reported by Standard & Poor's (S&P) in its August 3, 2020 report: *Sudden-Stop Recession Pressures U.S. States' Funding For Pension And Other Retirement Liabilities* using FY 2019 data. As shown below, Oregon has a low per capita unfunded pension and OPEB obligations when compared to many states. Further, it demonstrates that Oregon's pension funded status is above the mean funding level for all states and that Oregon's pension funding burden is low in comparison to other states.



Source: S&P August 3, 2020 report: *Sudden-Stop Recession Pressures U.S. States' Funding For Pension And Other Retirement Liabilities*

Funding of Wildfires: Remediation and Prevention

In 2020, wildfires in Oregon burned over 1.2 million acres statewide, with some of the largest and most devastating fires caused by a severe wind storm on Labor Day occurring in eight counties (Clackamas, Lincoln, Marion, Linn, Lane, Douglas, Jackson and Klamath). In the aggregate, these fires destroyed over 5000 homes, commercial structures and caused major damages to public roads, highways and other infrastructure.

During a two-day period, September 8 through September 9, 2020, Governor Kate Brown invoked the Emergency Conflagration Act which directed the Office of the State Fire Marshal and to mobilize resources to battle the more than 35 wildfires that burned across the State. Governor Brown requested a federal Emergency Declaration via the Stafford Act, which was approved by the President on September 10, 2020, which activated FEMA and other Federal assistance for the State. The Governor then requested a Major Disaster Declaration under the Stafford Act on September 13, 2020 and received the declaration from the President two days later.

Based on Preliminary Damage Assessment (PDA) conducted by Federal Emergency Management Agency (FEMA), the Oregon Office of Emergency Management and other State agencies and local governments, the State estimates a total cost \$1.15 billion due to wildfire/wind damage, response costs and debris removal. It is anticipated that the FEMA through the Public Assistance program, described below, will cover 75 percent of the cost on a reimbursement basis and the remaining 25 percent will be funded by State and local government sources. This cost-share allocates roughly \$860 million of FEMA funds and \$288 million of State and local government funds. These estimates are based on data collected in October 2020 and could increase as debris removal paves the way to additional damage assessments. Further, these estimates do not include damaged or destroyed privately owned infrastructure and property, nor do they account for economic losses. The Oregon Department of Human Services is primarily responsible for sheltering, feeding and providing other human services to help wildfire survivors.

Additionally, Preliminary Damage Assessments completed by nine counties and jurisdictions estimate total wildfire/wind damages at \$84 million of which the Federal cost-share of 75 percent is \$63 million and the local government cost share of 25 percent is \$21 million. This amount is separate from the State's costs and is expected to be paid by local governments which could create demand for infrastructure assistance.

Governor Brown's Executive Order 20-60 authorizes Oregon Department of Transportation (ODOT) as the lead agency for performing debris clean-up activities, these activities play themselves out in two phases. Phase I—Household Hazardous Waste (HHW) which represents a public health hazard (e.g. asbestos, paint, propane). Removal will be completed by the U.S. Environmental Protection Agency, and will result in a 25 percent non-federal cost share responsibility. Phase 2: ODOT's efforts in the areas of Hazard Tree Removal and Structural Debris Removal. General debris removal can be covered by FEMA via reimbursement; the non-federal cost share starts at a standard 25 percent. ODOT can use State Highway resources for removal of hazard trees, but removal of ash and structural debris will require another funding sources as it is not eligible for highway funding under the Oregon Constitution. The entirety of the Phase 2 work (Hazard Tree removal and Structural debris clean-up), will take approximately 6 to 18 months to complete. Oregon's Legislative Emergency Board approved \$50 million in new funding allowing ODOT to begin ash and debris removal work.

The FY 2021 Legislature will need to address two components of wildfire costs: 1) funding of the State’s cost share currently estimated at \$288 million and 2) interim funding of the reimbursable Federal cost share of \$860 million. For the State’s cost share, a revenue or funding source is required. It should be recognized that utilization of existing funds may displace resources that are otherwise necessary for ongoing operations and maintenance of some of the State’s enterprises and, if used, those dollars will need to be restored. Interim funding for FEMA reimbursable expenditures can be achieved with short-term facility or borrowing that would be repaid when FEMA funds are received. An interim funding mechanism may require a funding source or backstop of the State for additional credit support.

Funding of Deferred Maintenance for State Facilities

Oregon Department of Administrative Services (DAS), pursuant to ORS 276.227 is charged with establishing a statewide planning process to evaluate the State’s facilities and provide periodic update on the condition of such facilities. Based on DAS’ recent review of State of Oregon facilities, the State has current and future capital needs related to maintaining aging, State-owned facilities, the mean age of which is 40 years. The State-owned facility portfolio, including public university facilities, is approximately 39 million gross square feet (MGSF) located in over 5,100 separate buildings. Excluding public university facilities, state executive branch agencies are housed in 23.3 MGSF of this space in approximately 4,600 facilities valued at \$7.7 billion. Delaying the funding of ongoing maintenance, repairs and timely system replacements to the point that major renovations are required to maintain safe and adequate usage will cost significantly more than if these facilities were maintained in a state of good repair.

Based on facility assessments conducted on over 70 percent of the State’s agency-owned major buildings and campuses, the capital renewal and deferred maintenance needs for assessed buildings are estimated to cost over \$1 billion within the next 10 years. To the extent agency operating budgets are not sufficient to address ordinary maintenance and repairs of state facilities, this unmet need will continue to put pressure on the State’s limited debt capacity to catch up on deferred maintenance through extensive and expensive renovation projects. At 2 percent per biennium, or \$154 million, the Department of Administrative Services projects that by FY 2026 the State’s investments in addressing the backlog in deferred maintenance would exceed the growth in deferred maintenance costs. The Commission commends the 2019 State Legislature for approving 2019-21 biennium funding of deferred maintenance and capital improvements at 2.95 percent of the current replacement value of State buildings, which will allow the State to address more of its facilities maintenance backlog sooner than initially anticipated. The State’s ongoing requirements for office space may need to be re-evaluated over the next several years once the State develops a better understanding of how the COVID pandemic potentially shifts telecommuting habits in the future.

A long-term strategic capital plan published by the Higher Education Coordinating Commission recommends establishing a similar type of funding scheme for the deferred maintenance needs of the State’s public universities. The report notes that national higher education facility management “best practice” calls for investing at least 2.5 percent per year of the current replacement value in capital renewal of existing assets, which would translate into approximately \$250 million per year.

Private Activity Bond Allocations

Each year, the Federal government allocates a limited amount of “private activity” tax-exempt financing authority to each state for their distribution to various qualified economic and

community development projects. Historically, the State has allocated its private activity bond (PAB) volume cap primarily to affordable housing construction and rehabilitation, first time homebuyer mortgage programs, and a select number of solid-waste, port, and energy production projects around the state.

While Oregon has historically had an abundance of PAB allocation available for these purposes, it is unlikely that this will be the case in the coming years. There has been a sharp increase in the State's economic and construction activity and a commensurate growth in requests for PAB allocations by various economic development and affordable housing projects. In recognition of the need to accelerate the construction of affordable housing around the State, the 2019 Legislature doubled its previous annual allocations to the Oregon Housing and Community Services Department (OHCS) in the 2019-21 Biennium Bond Bill, which in turn reduced the annual amounts allocated to the PAB Committee. Consequently, obtaining future PAB allocations for local economic development and affordable housing projects through the PAB Committee will likely become a more challenging and contentious process, requiring careful thought and deliberation as to the highest and best uses of this limited financial resource.

Timing of State Bond Sales

In addition to determining the specific projects that will be authorized for bonding in the biennial Bond Bill, the Legislature in recent years has also directed the specific timing of State bond sales by delaying the appropriation of debt service on state funded projects until the following biennium. As a result, the majority of State General Obligation and Lottery Revenue Bonds have been sold during the last few months of the biennium in which they were initially authorized. While this strategy may have been necessary from an overall State budget management perspective in the years following the Great Recession, it has not always resulted in the State being able to achieve optimal interest rates at the time of the sale of these bonds. The clustering of a number of large dollar Oregon bond issues in too short a time frame floods the capital markets to the point where supply exceeds demand, which in turn requires the State to offer bonds at higher interest rates than would otherwise be required to assure their final placement with investors.

The Commission recommends that the Legislature consider providing for a larger percentage of approved capital projects to be financed in the first year of the biennium. This approach would spread out the sale of State bonds in a more even fashion and allow for a better balance of supply and demand for our bonds across the entire biennium. Further, it enhances the State's ability to implement conservative interest cost averaging in its debt portfolio.

Conclusion

While the Commission projects increased debt capacity in the next several biennia, it notes that this long-term debt capacity remains modest compared to the wide range of potential new State and local capital projects, affordable housing, K-12 education, seismic and other building improvements, resiliency measures, information technology upgrades (including extending broadband connectivity throughout the State and protection against cyberattacks), and other State infrastructure needs. The Commission continues to recommend that the Legislature and Governor limit their bonding authorizations to only the highest priority essential State capital projects in order to maintain the State's strong credit ratings and overall healthy financial position.

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I. BONDING IN OREGON

Historically, Oregon has operated under a biennial debt review and authorization process. Under that model, each individual bonding program receives specific legislative authorization and is managed by a state government agency. The Oregon State Treasury, as issuer of all State of Oregon bonds, is charged with the responsibility to centrally oversee all long-term debt programs. The State uses four primary types of long-term debt finance obligations: general obligation bonds (GOs), direct revenue bonds, appropriation credits, and conduit revenue bonds. General obligation bond authorized limits are normally expressed as a percentage of statewide value of taxable property. Revenue bonds and appropriation credits are usually limited by the Legislature to a specific dollar amount.

A brief explanation of the bond authorization and issuance process and the debt obligation types and associated State of Oregon bonding programs are provided below.

A. Authorization and Issuance Process

State Treasurer

The State Treasurer has been given responsibility and authority with respect to the sale and management of State bonds. The State Treasurer has assigned day-to-day responsibility for the coordinated issuance of all State obligations to the Debt Management Division of the Oregon State Treasury. The Division reviews the structure and security features of each bond and appropriation credit and recommends issuance to the State Treasurer. In addition, the Division coordinates the timing of the various agency bond sales, administers the issuance of bonds, secures credit ratings, prepares transcripts and other documents, provides for the delivery of bonds, assists with the signing and closing of bond issues, and coordinates the State's primary and secondary market disclosure responsibilities as required by regulations promulgated by the Security and Exchange Commission (SEC). In addition, Division staff provides advice to State agencies regarding market developments and makes debt policy and legislation recommendations to the State Treasurer.

Biennial Legislative Limitations

In addition to constitutional and statutory authorities and limitations, Oregon has historically followed a legislative practice of biennially approving bond volume limits. Prior to each biennium, the Governor's budget, in conjunction with advice from the State Treasurer, details program amounts recommended for bonding authority during the upcoming biennium. The budget recommendation considers requests by agencies for capital projects, as well as grant and loan program need. The Legislature then conducts a program-by-program review process and approves what it determines to be an appropriate level of issuance. Although this process has been successful, increasing demand for financing State capital needs necessitates a more comprehensive and longer-range approach to capital financing. The purpose of this report is to provide the Governor and the Legislature additional advice when considering and approving biennial bond volume limits, as well as to make recommendations the Commission believes would enhance the State's bond ratings and maintain access to low-cost capital financing.

B. State of Oregon Bonding Authorizations

General Obligation Bonds

General Obligation (GO) debt is secured by the full faith and credit of the participating issuer, for our purposes, the State of Oregon. Typically, GO debt necessitates constituency approval. In the State's case, each GO bond program was created by a constitutional amendment passed by state voters. Therefore, the People of the State have unconditionally pledged to pay debt service (i.e. principal and interest) payments, over the life of each GO bond issue. This means that barring the existence of other adequate repayment sources, all unrestricted public revenues must be used as needed to support debt service payments. This may include the levy of a statewide property tax if necessary and allowed by law.

Article XI, Section 7 of the Constitution provides the State with the general authority to issue GO debt. Currently, there are 18 constitutionally authorized GO bond programs.¹ While each of these programs has the potential for drawing on the State's General Fund or other taxing authority, many of the programs are fully self-supporting and are repaid from program revenues, gifts, grants, or other revenue streams.

The constitutionally authorized State of Oregon GO bond programs are listed below.²

- General Purpose Bonds – Article XI, Section 7
- State Highway Bonds – Article XI, Section 7
- Veterans Welfare Bonds – Article XI-A
- State Power Development Bonds – Article XI-D
- State Forest Rehabilitation Bonds – Article XI-E
- Higher Education Building Bonds – Article XI-F (1)
- Higher Education Facilities and Community College Bonds – Article XI-G³
- Pollution Control Bonds – Article XI-H
- Water Resources Bonds – Article XI-I (1)
- Elderly and Disabled Housing Bonds – Article XI-I (2)
- Alternate Energy Bonds – Article XI-J
- Oregon School Bond Guaranty Program – Article XI-K
- Oregon Opportunity Bonds – Article XI-L

¹ General Purpose bonds and State Highway bonds are both provided constitutional bonding authority by Article XI, Section 7. Likewise, Article XI-G provides constitutional bonding authority for both Higher Education bonds and Community College bonds.

² There is currently no outstanding general obligation debt related to State Power Development, State Forest Rehabilitation, Water Resources, and Oregon School Bond Guaranty Program.

³ Higher Education Facilities GO bonds were historically issued by the Board of Higher Education, whereas Community College GO bonds were issued by the Board of Education. Higher Education and Community College bond issuance are combined and charged against the total debt authorized by the State Constitution Article XI-G.

- Seismic Rehabilitation of Public Education Buildings – Article XI-M
- Seismic Rehabilitation of Emergency Services Buildings – Article XI-N
- Pension Obligation Bonds – Article XI-O
- Public School Facilities Bonds – Article XI-P
- State General Purpose Bonds – Article XI-Q

Direct Revenue Bonds

Unlike GO bonds, direct revenue program debt is not secured by the State’s unlimited pledge to fund debt service with unrestricted public revenues or, where permitted, a statewide ad valorem property tax. Rather, funds to pay debt service are provided by a specific dedicated revenue stream, and normally program revenues are directly associated with the funded project(s). Further, revenue programs typically do not require a vote of the People, but must be authorized by the Legislative Assembly. The State Legislature at all times holds the right to refer program approval to Oregon voters.

Oregon Revised Statutes provide for a variety of revenue bond programs. These programs are each considered fully self-supporting, and have no GO backing from the State. However, if program revenues were to become insufficient to support debt service payments, this does not preclude the State from providing a funding stream. Statutorily authorized direct revenue bond programs that are currently active are listed below.

- State Highway User Tax Bonds – ORS 367.620
- Oregon Transportation Infrastructure Fund Bonds – ORS 367.630¹
- Lottery Revenue Bonds – ORS 286A.560 to 286A.585
- Oregon Bond Bank Revenue Bonds – ORS Chapter 285B.320 to 285B.371
- Single-Family and Multifamily Revenue Bonds – ORS 456.661

Conduit Revenue Bonds

Conduit revenue bonds are securities that are issued by a governmental unit to finance a project for a third party. Debt service payments are the obligation of the third-party borrower and do not constitute a GO debt of the State or the issuing governmental agency. Economic and industrial development revenue bonds are a common type of conduit revenue security.

The State has four authorized and active conduit or “pass-through” revenue bond programs:

- Oregon Facilities Authority (OFA) – ORS Chapter 289.200 to 289.240
- Industrial Development Revenue Bonds – ORS Chapter 285B.320 to 285B.371
- Housing Development Revenue Bonds – ORS 456.692
- Beginning & Expanding Farmer Loan Revenue Bonds – ORS Chapter 285A.420 to 285A.435

¹ Various legislative bills have authorized the sale of Transportation Infrastructure Bonds; however, no bonds have been issued to date by this program.

Under these programs, the State is considered the issuer, but has no obligation to pay debt service. Payments are made by the entities on whose behalf the bonds were issued.

Appropriation Credits

Similar to revenue program debt, appropriation credits are not secured by the State's unlimited pledge to fund debt service with unrestricted public revenues or, where permitted, a statewide ad valorem property tax. The State has historically used two types of appropriation credits:

- Appropriation Bonds – SB 856 – 2003 Legislature
- Certificates of Participation (COPs) – ORS 283.085

These credits are special limited obligations of the State payable solely from funds appropriated or otherwise made available by the State Legislative Assembly. The obligation of the State to provide appropriated moneys and to pay bond debt service is subject to future appropriation by the Legislature for the fiscal period in which payments are due. As with State direct revenue bond programs, appropriation credits do not require a vote of the People, but must be authorized by the Legislative Assembly. In 2010, voters approved Constitutional amendment Article XI-Q, which authorizes the State to issue GO Bonds for various State-owned or operated office buildings, facilities and other capital projects. Rather than issuing higher cost appropriation debt, the State has been refunding existing COPs with XI-Q bonds, as market conditions permit. Since approval of Article XI-Q, the State has refunded \$632 million in outstanding COPs with XI-Q GO bonds, saving an estimated \$101.4 million in interest costs on a present value savings basis.

Exhibit I.1
State of Oregon Outstanding Long-Term Financial Obligations
and Constitutional and Statutory Provisions

As of June 30, 2020¹

Program	Legal Provision	Constitutional Debt Limit %	Constitutional Debt Limit \$	Debt (Principal) Outstanding	Constitutional Authorization Remaining
General Obligation Bonds					
General Purpose (4)	ARTICLE XI SEC 7		\$50,000		\$50,000
Transportation: State Highway	ARTICLE XI SEC 7	1.0000%	\$7,157,969,096	\$28,085,000	\$7,129,884,096
Veterans' Welfare (5)	ARTICLE XI-A	8.0000%	\$57,263,752,771	\$393,535,000	\$56,870,217,771
State Power Development	ARTICLE XI-D	1.5000%	\$10,736,953,645		\$10,736,953,645
Forest Rehabilitation	ARTICLE XI-E	0.1875%	\$1,342,119,206		\$1,342,119,206
Higher Education XI-F (5)	ARTICLE XI-F(1)	0.7500%	\$5,368,476,822	\$1,033,336,185	\$4,335,140,637
Community College	ARTICLE XI-G			\$208,920,000	
Higher Education XI-G (5)	ARTICLE XI-G	0.7500%	\$5,368,476,822	\$708,287,354	\$4,660,189,468
Pollution Control (6)	ARTICLE XI-H	1.0000%	\$7,157,969,096	\$29,298,000	\$7,128,671,096
Housing: Elderly & Disabled	ARTICLE XI-I(2) and ORS	0.5000%	\$3,578,984,548	\$28,865,000	\$3,550,119,548
Alternate Energy Projects (6)	ARTICLE XI-J	0.5000%	\$3,578,984,548	\$125,400,000	\$3,453,584,548
Oregon School Bond Guarantee	ARTICLE XI-K	0.5000%	\$3,578,984,548		\$3,578,984,548
Oregon Opportunity Bonds (OHSU) (7)	ARTICLE XI-L	0.5000%	\$3,578,984,548	\$50,030,000	\$3,528,954,548
Seismic Rehab - Public Education Bldgs	ARTICLE XI-M	0.2000%	\$1,431,593,819	\$272,165,000	\$1,159,428,819
Seismic Rehab - Emergency Service Bldgs.	ARTICLE XI-N	0.2000%	\$1,431,593,819	\$55,095,000	\$1,376,498,819
Pension Obligations (6)	ARTICLE XI-O	1.0000%	\$7,157,969,096	\$1,366,610,000	\$5,791,359,096
School District Capital Costs	ARTICLE XI-P	0.5000%	\$3,578,984,548	\$178,625,000	\$3,400,359,548
State Real or Personal Property	ARTICLE XI-Q	1.0000%	\$7,157,969,096	\$1,993,200,000	\$5,164,769,096
				<u>\$6,471,451,539</u>	
Direct Revenue Bonds					
Economic Development - Bond Bank	ORS 285B			\$42,200,000	
Lottery Bond Program(s)	ORS 286A.560 – 585			\$1,116,995,000	
Transportation Infrastructure Bank	ORS 367.030				
Transportation: Highway User Tax	ORS 367.620			\$2,246,470,000	
Housing: Single & Multi-Family Programs	ORS 456.645 and ORS 456.661			\$1,237,310,000	
				<u>\$4,462,975,000</u>	
Appropriation Credits					
Certificates of Participation	ORS 283 & 286A			\$100,940,000	
Oregon Appropriation Bonds	SB 856 - 2003 Legislature			<u>\$100,940,000</u>	

The State of Oregon Office of the Treasurer maintains debt information to assist in debt related matters. The data is based on information obtained from sources believed to be reliable; however, its accuracy cannot be guaranteed. The Office of the State Treasurer does not independently verify the information received. The State of Oregon is not responsible for the accuracy, completeness or timeliness of the information obtained and the data presented and disclaims any liability for or obligation to bond owners or others concerning the accuracy, completeness or timeliness of the data and information presented. {1} Percentages listed are of Real Market Value (RMV) of all taxable real property in the state. {2} Based on the January 1, 2019 Real Market Value (RMV) of \$715,796,909,641. Authorization does not include inactive programs.

{3} Excludes refunded and defeased Bonds and Notes issued for less than 13 months. {4} The State of Oregon may not incur indebtedness exceeding \$50,000 without a constitutional amendment approved by the voters. {5} Outstanding Department of Veterans' Affairs and State Board of Higher Education general obligation debt reflect the proceeds amount of original issue discounted and deferred interest bonds. {6} The amount of General Fund debt service support will vary over time depending on the amortization and budgeted allocation of debt service on each bond, Department of Environmental Quality (DEQ) Pollution Control debt is reported as 46% General Fund supported and 54% self-supporting. ORS 468.195 limits the amount of DEQ debt outstanding at any one time to \$260 million. Alternate Energy debt is reported at 40% General Fund supported and 60% self-supporting. Pension Bonds were approved by the voters September 16, 2003. 34% of Pension Bonds are General Fund Supported, 66% are paid from non-General Fund Sources. COP obligations are reported at 100% General Fund supported. {7} Oregon Opportunity Bonds (OHSU) were authorized to finance capital costs of Oregon Health and Science University in an aggregate principal amount that produces net proceeds in an amount that does not exceed \$200 million. Authorized debt may not exceed 1/2 of 1 percent RMV of all taxable real property in the State.

C. General Fund Supported and Net Tax-Supported Debt

The municipal credit rating industry uses a number of different measurements and indicators to evaluate a government's debt burden. Two of those measurements include "*general fund-supported debt*" and "*net tax-supported debt*."

A significant proportion of the State's overall long-term debt obligations are fully self-supporting with the source of bond debt service payments coming from resources other than General Fund appropriations or other tax revenue. Bonding programs that do not require State appropriated General Fund support or other direct State tax revenue support would not be included in either General Fund or net tax-supported debt measurements. However, in keeping with rating agency practice, some programs in which debt service payments are made with dedicated funds or special-tax revenue sources may still be viewed as General Fund or net tax-supported debt depending on the interpretation of the funding source(s). Examples of bond programs that do not require State tax revenues or General Fund appropriations to pay debt service include the Veterans' Welfare GO bond housing program, the Single and Multifamily Housing revenue bond program and all conduit revenue bonds.

General Fund Supported Debt is classified as long-term obligations whose debt service is paid primarily from General Fund appropriations made by the State Legislature. Examples include Higher Education Facility and Community College (Article XI-G) GO bonds, State Property Bonds (Article XI-Q) GO bonds, and Certificates of Participation (COPs).

Net Tax-Supported Debt is defined as all debt serviced by tax revenues of the State. This definition includes all General Fund supported-debt and other long-term obligations supported by specific State taxes. Highway User Tax Revenue bonds are an example of long-term debt that is net tax-supported, even though it does not pledge any General Fund appropriations towards repayment of the bonds. These bonds do not constitute a GO debt of the State but are instead payable solely from revenues received from highway user taxes. Furthermore, in accordance with the Oregon Constitution, highway user tax revenues must be used exclusively for public highways, roads, streets and rest areas of the state and the retirement of bonds for which such revenues have been pledged.

The three major national rating agencies, Fitch, Moody's, and Standard & Poor's, differ somewhat in their assumptions and definitions of General Fund and net tax-supported debt with respect to the State of Oregon. For purposes of this report, the Commission has chosen to follow the Moody's model in determining both General Fund and net tax-supported debt. This decision was based primarily on Moody's historical gathering and publishing of key debt ratios for the fifty states, and the recognition of their annual state debt report as an accepted industry model.

As part of the development of this report, staff of the Office of the State Treasurer and the Department of Administrative Services periodically reviews all outstanding debt of the State with the goal of providing a more precise estimate of the amount of State debt that is actually supported by general fund revenues. Based on this review, the *2021 Legislative Report* adjusts downward the percentage of debt that is designated as General Fund-supported in relation to the GO bonds issued by the State to fund pension obligations, COPs, and Article XI-Q GO bonds. The report also incorporates a portion of the self-supporting GO debt issued by the Department of Environmental Quality and the Oregon Department of Energy to the extent that General Fund dollars are appropriated biennially for the following two years of debt service on these programs.

Based on these adjustments, this report includes the debt of the following bond programs in its assumptions of General Fund-supported debt:

- State Highway Bonds (Article XI, Section 7)
- Higher Education Facility & Community College Bonds (Article XI-G)
- Pollution Control Bonds (Article XI-H) (46% of total program debt)
- Alternate Energy Bonds (Article XI-J) (40% of total program debt)
- Oregon Opportunity Bonds (Article XI-L);
- State Pension Obligation Bonds (Article XI-O) (34% of total program debt)
- Seismic Rehabilitation Bonds for Public Education Buildings (Article XI-M)
- Seismic Rehabilitation Bonds for Emergency Services Buildings (Article XI-N)
- Public Safety Buildings (Article XI-N);
- Public School Facility Bonds (Article XI-P)
- State General Purpose Bonds (Article XI-Q) (92% of total program debt)
- Certificate of Participation Obligations (ORS 283.085 to 283.092) (100% of total program debt)

Net tax-supported debt includes the above-listed General Fund supported programs in addition to the following:

- Balance of State Pension Obligation Bonds, State General Purpose Bonds, and Certificates of Participation;
- Lottery Revenue Bonds (ORS 286A.560-585)
- Highway User Tax Revenue Bonds (ORS 367.620)

Exhibit I.2 below provides a comparison of General Fund-supported debt, net tax-supported debt, and total outstanding gross debt as of June 30, 2020.

SDPAC - Exhibit I.2
State of Oregon
Comparison of Long-Term Debt Outstanding
As of 6/30/2020

Type & Purpose	Legal Provision	General Fund Supported Debt	Net Tax-Supported Debt	Total Gross Debt Outstanding
General Obligation				
<i>General Fund Supported</i>				
General Purpose	ARTICLE XI SEC 7	\$ -	\$ -	\$ -
State Highway	ARTICLE XI SEC 7	28,085,000	28,085,000	28,085,000
Community College Bonds	ARTICLE XI-G	208,920,000	208,920,000	208,920,000
Higher Education Institutions & Activities	ARTICLE XI-G	708,287,354	708,287,354	708,287,354
Pollution Control Bonds	ARTICLE XI-H	13,533,010	13,533,010	13,533,010
Alternate Energy Bonds	ARTICLE XI-J	50,160,000	50,160,000	50,160,000
DAS Oregon Opportunity Bonds	ARTICLE XI-L	50,030,000	50,030,000	50,030,000
Seismic Rehab - Public Education Bldgs	ARTICLE XI-M	272,165,000	272,165,000	272,165,000
Seismic Rehab - Emergency Service Bldgs	ARTICLE XI-N	55,095,000	55,095,000	55,095,000
State Real or Personal Property	ARTICLE XI-Q	1,843,118,020	1,843,118,020	1,843,118,020
DAS Pension Obligation Bonds (1)	ARTICLE XI-O	460,294,747	460,294,747	460,294,747
School District Capital Costs	ARTICLE XI-P	178,625,000	178,625,000	178,625,000
Total General Fund Supported		\$ 3,868,313,130	\$ 3,868,313,130	\$ 3,868,313,130
<i>Dedicated Fund Supported</i>				
Veterans' Welfare Bonds	ARTICLE XI-A	-	-	393,535,000
Higher Education Building Projects	ARTICLE XI-F(1)	-	-	1,033,336,185
Pollution Control Bonds	ARTICLE XI-H	-	-	15,764,990
Elderly & Disabled Housing Bonds	ARTICLE XI-(2) and ORS 456.519	-	-	28,865,000
Alternate Energy Project Bonds	ARTICLE XI-J	-	-	75,240,000
State Real or Personal Property	ARTICLE XI-Q	-	150,081,980	150,081,980
DAS Pension Obligation Bonds (1)	ARTICLE XI-O	-	906,315,253	906,315,253
Total Dedicated Fund Supported		\$ -	\$ 1,056,397,233	\$ 2,603,138,408
Total General Obligation		\$ 3,868,313,130	\$ 4,924,710,363	\$ 6,471,451,539
Revenue Bonds				
<i>Direct Revenue Bonds</i>				
Lottery Revenue Bond Program(s)	ORS 286A.560 – 585	-	1,116,995,000	1,116,995,000
Highway User Tax Revenue Bonds	ORS 367.620	-	2,246,470,000	2,246,470,000
Single-Family & Multi-Family Housing	ORS 456.645 and ORS 456.661	-	-	1,237,310,000
Economic Development - Bond Bank	ORS 285B	-	-	42,200,000
Total Direct Revenue Bonds		\$ -	\$ 3,363,465,000	\$ 4,642,975,000
<i>Conduit or Pass Through Revenue Bonds</i>				
Economic & Industrial Development	ORS 285	-	-	651,195,735
Beginning & Expanding Farmer Loans	ORS 285A.420-435	-	-	-
Oregon Facilities Authority	ORS 289	-	-	1,844,773,596
Multi-Family Housing Programs	ORS 456.645 and ORS 456.692	-	-	784,989,146
Total Conduit or Pass Through Revenue Bonds		\$ -	\$ -	\$ 3,280,958,477
Total Revenue Bonds		\$ -	\$ 3,363,465,000	\$ 7,923,933,477
Appropriation Credits				
Certificates of Participation (COPs)	ORS 283 & 286A	100,940,000	100,940,000	100,940,000
Oregon Appropriation Bonds	SB 856 - 2003 Legislature	-	-	-
Total Appropriation Credits		\$ 100,940,000	\$ 100,940,000	\$ 100,940,000
Total Gross Debt		\$ 3,969,253,130	\$ 8,389,115,363	\$ 14,496,325,016
Total Debt - Less Conduit Revenue Bonds		\$ 3,969,253,130	\$ 8,389,115,363	\$ 11,215,366,539

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D. Pension Obligation Bonds

On September 16, 2003, Oregonians approved the issuance of State general obligation bonds to finance part of the State’s unfunded actuarial liability (UAL) to the Oregon Public Employees Retirement System (OPERS). The UAL is the difference between the liability of PERS to retirees and the actuarially determined value of the assets available to pay the liability. Calculated at an actuarial assumed rate of 8.0%, the State’s portion of the pension liability was estimated to be over \$2 billion.

In October 2003, the State issued \$2 billion in taxable Pension Obligation Bonds (POBs). Because the POBs were sold at an average interest rate of 5.8%, which was 2.2% below the actuarially assumed rate of 8% then in use by OPERS, the State anticipated receiving significant budgetary savings from the reduced cost of funding its UAL, despite the fact that this bond issue increased the state’s outstanding net tax-supported debt and its debt ratios substantially.

The ultimate savings that will be achieved through the issuance of POBs depends on the overall future asset returns on the POB bond proceeds deposited in a side account at OPERS. While the costs of the POBs were known and fixed at the time of issuance, investment returns over the term of the bonds cannot be known in advance. Based on assumptions regarding the long-term rate of return of the PERS system made at the time of issuance in 2003, it was estimated that the POBs would provide nominal General Fund savings of approximately \$900 million over the life of the bonds. The actual amount of savings will not be known, however, until the POB bonds are fully retired in FY 2027.

E. Private Activity Bond Allocations

Under Federal tax law, tax-exempt bonding is generally limited to the financing of capital projects, which are deemed to benefit the general public rather than private parties per se, although it does allow a limited amount of tax-exempt financing for “private activity” projects. Section 146 of the IRS Tax Code defines which projects qualify as “private activity,” and authorizes by formula each state’s annual private activity tax-exempt bonding volume cap (PAB). The IRS cap per capita for calendar year (CY) 2020 was \$105. In 2021, the cap will increase to \$110 per capita.

In CY 2020, Oregon’s overall PAB volume cap was \$442.8 million, of which the 2019 Legislature allocated \$292.5 million to State agencies (\$250 million to the Oregon Housing and Community Services Department (OHCS) for affordable housing; \$40 million to the Oregon Business Development Department (OBDD) for Industrial Development Bonds; and \$2.5 million to OBDD for the Beginning and Emerging Farmers loan program), with the balance of \$150.4 million allocated to the Private Activity Bond Committee (PAB Committee). This Committee, as established in state law (ORS 286A.615), meets quarterly to review applications for the allocation of PAB to State or local projects that seek tax-exempt financing for their proposed private activity projects.

In CY 2020 to date, the Committee allocated \$26.2 million in PAB to provide tax-exempt financing for one environmentally desirable project – \$15 million towards the overall \$600 million Intel Corporation wastewater recycling project undertaken in connection with their new chip fabrication facility in Hillsboro and two affordable housing projects -- \$6.6 million for a multi-family complex by Housing Works in Redmond and \$4.6 million to the Portland Housing Bureau for final commitments in their Mortgage Credit Certificate Program.

Unallocated and unused PAB allocations for a given year are allocated as “carryforward” by the PAB Committee each January to projects or categories of projects designated as private activity

under IRS Section 146. This PAB volume cap carryforward must be used within three years for the allocated purpose or it is permanently lost to the State, as it cannot be reallocated to any other purpose once the carryforward election is made. Historically, the vast majority of PAB carryforward (which has generally been in the \$200-\$250 million per year range) was allocated to OHCS D, who applied the allocations either to the First Time Homebuyer mortgage revenue bond or the multifamily affordable housing program.

It is anticipated that the Committee will have approximately \$386 million in carryforward available to allocate at its meeting in late January 2021, with 2020 carryforward requests in the \$370 million range. Given the passage by Metro area voters of over \$700 million in local general obligation bonds to provide “gap” funding for affordable housing, it is anticipated that competition for future PAB Committee allocations will be strong, as the various affordable multi-family housing projects now in the planning stage must collectively rely upon the issuance of tax-exempt bonds to provide a 50% match for the federal 4% tax credit which provides the majority of equity in each transaction (with GO “gap” funding filling in the balance of the costs on a project).

In recognition of the statewide need for affordable housing, the 2019-21 Biennium Bond Bill increased the 2020 and 2021 PAB allocations to OHCS D from \$125 million to \$250 million each year, which will reduce the amounts allocated to the PAB Committee accordingly. This \$125 million annual reduction will make allocation decisions between competing economic development and local affordable housing projects a more challenging process in the coming years, requiring careful thought and deliberation as to the highest and best uses of this valuable, yet limited financial resource. To that end, the Committee has voted to spread out its legislatively allocated PAB in equal amounts over the course of each calendar year, with any unallocated quarterly portions added to the next quarterly amount available to requesting communities.

The State’s 2021 calendar year PAB volume cap authority is \$466.6 million, of which the PAB committee is allotted \$174.1, after expected Legislative authorization in the upcoming 2021 legislative session.

II. CURRENT DEBT PICTURE IN OREGON

A. Outstanding Debt

Prior to the late 1990s, the majority of State debt outstanding was linked to the bonds issued by the Department of Veterans' Affairs (ODVA) for veterans' mortgages. Since that time, the State's debt financing has been increasingly employed as the main vehicle to fund certain State programmatic needs as well as the backlog of infrastructure and capital needs linked to the deferred maintenance of state and higher educational facilities. Debt issuance for state highway improvements has substantially grown over the past decade, as has the amount of indebtedness linked to construction and renovation of state facilities, economic development efforts, and higher education projects.

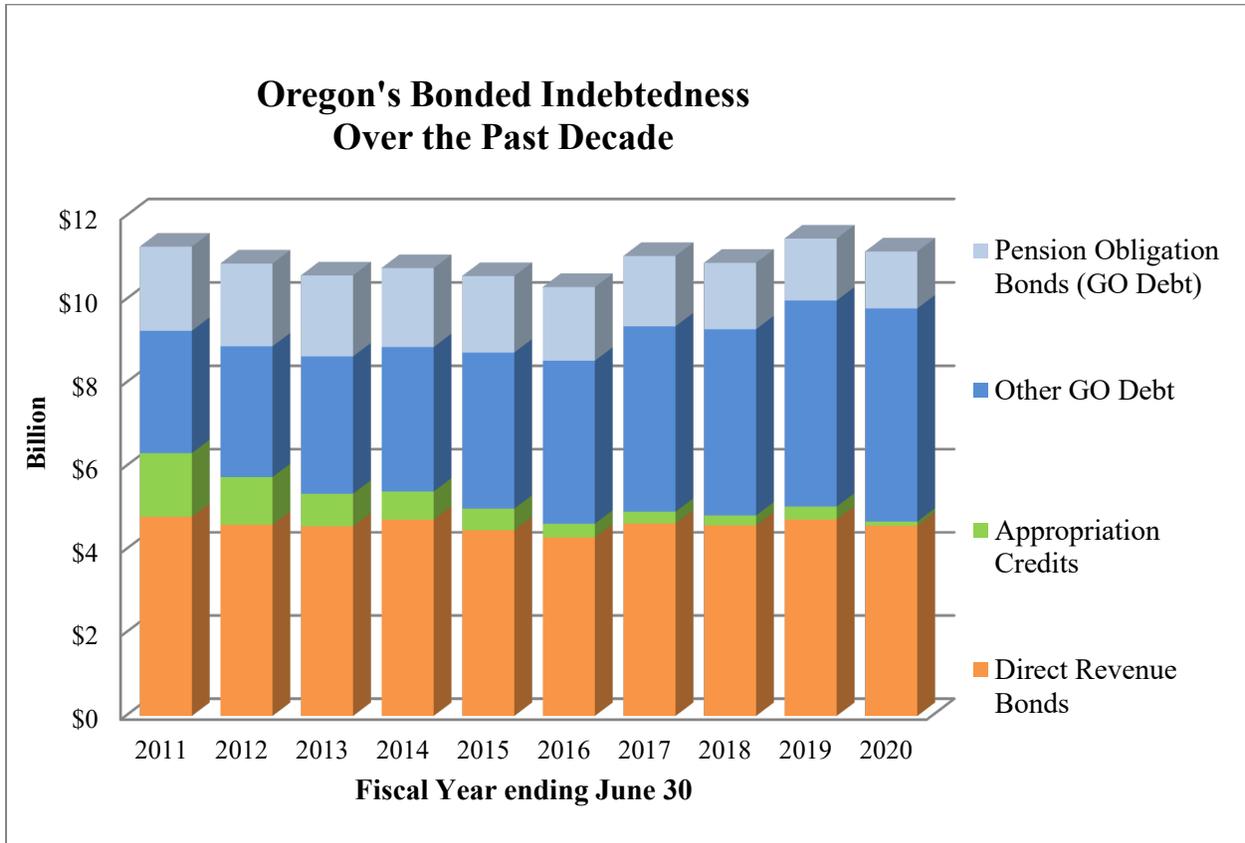
In 2003, the Legislature authorized several major new bonding programs, including \$2.1 billion in pension obligation bonds to fund the State's Public Employees Retirement System (PERS) liability, \$432 million in appropriation deficit bonds, and \$1.9 billion in new Oregon Department of Transportation (ODOT) highway user tax bonds to address statewide bridge and highway modernization needs. In 2009 and again in 2017, the Legislature authorized the issuances of an additional \$840 million and \$480 million respectively in ODOT bonds to address highway congestion and safety issues

In 2017, the Legislature authorized significant transportation legislation in its House Bill 2017, known as "Keep Oregon Moving," to address three identified priorities: 1) to protect, preserve and maintain the State's transportation system; 2) to address the effects of congestion, particularly in the Portland metro region; and 3) to increase investment in public transportation in both urban and rural areas. When all of the new revenue sources are fully phased in, Keep Oregon Moving is expected to result in investment of more than \$600 million a year across all modes of the State's transportation system, representing the State's largest transportation investment in Oregon's history. Keep Oregon Moving includes the 2019-21 authorization of an additional \$485 million in net proceeds of ODOT Highway User Tax Revenue Bonds to finance transportation projects across the State.

The following exhibits reflect more recent trends in outstanding State general obligation bonds, direct revenue bonds and appropriation credit obligations. These exhibits offer a historical perspective on the underlying factors that determine the State's overall debt position.

Exhibit II.1 shows a 10-year history of the State’s total outstanding obligations by major category from fiscal years ending 2011 to 2020.¹ This exhibit shows that overall state debt has remained relatively constant over the past decade, as new general obligation and revenue state bonds were issued at roughly the same pace as outstanding general obligation and revenue state debt was retired. The components of overall state debt have changed during this ten-year time frame, however, with general obligation debt replacing appropriation credit debt as the source of financing for most state capital projects.

Exhibit II.1



¹ Does not include conduit or pass-through revenue bonds.

Exhibit II.2 provides more detail on the underlying components of this growth in State general obligation indebtedness. Overall outstanding State general obligation indebtedness totaled \$6.5 billion at the end of FY 2020, representing an increase of approximately \$1.5 billion over the levels reported ten years ago.

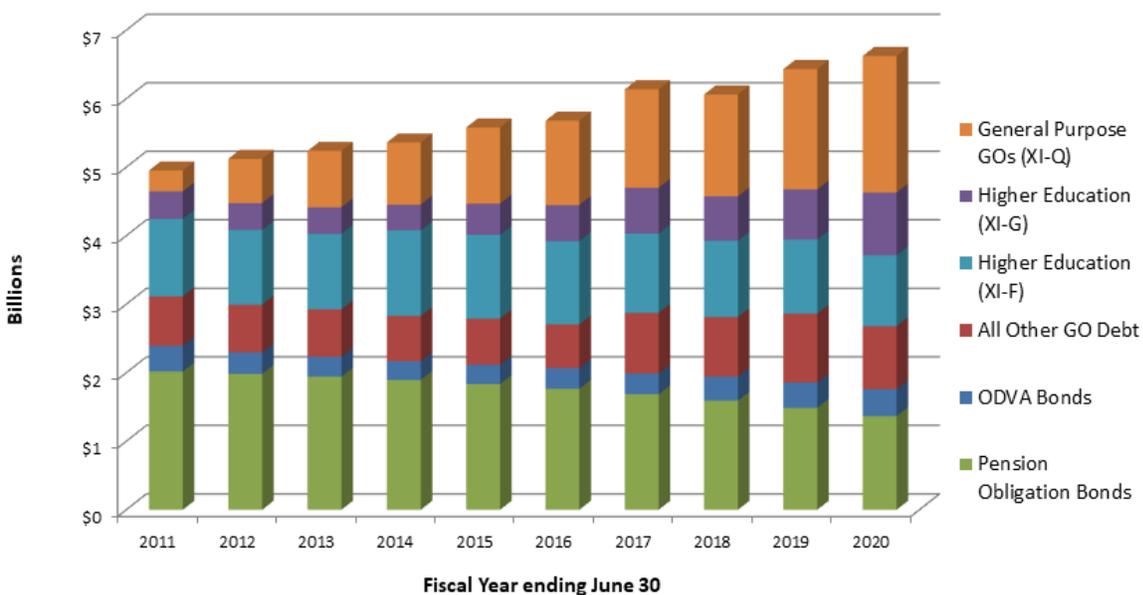
The largest growth area in terms of State GO bonded indebtedness is related to the establishment of the Article XI-Q GO bond program. In November 2010, Oregon voters authorized the sale of XI-Q general obligation bonds for state buildings, facilities and other capital projects as an alternative to the costlier financing of these projects through Certificates of Participation (COPs). It was anticipated at the time of passage of this new bond program that the State would over time refinance most of its outstanding COPs with these higher-rated, lower cost GO bonds.

To date, the State has refunded \$632 million in COPs with the new XI-Q GO bonds, saving an estimated \$101.4 million in interest costs on a present value savings basis. In addition, since FY 2011, most new state property projects have been financed with XI-Q GO bonds. As of June 30, 2020, there was \$2.0 billion in XI-Q GO bonds outstanding, and \$101 million in COPs remaining.

There has also been a steady increase over the decade in the issuance of Higher Education GO bonds (both Article XI-G and XI-F (1) bonds) which fund public university capital projects; on a combined basis, higher education indebtedness has grown from \$1.5 billion in FY 2011 to \$1.7 billion in FY 2020.

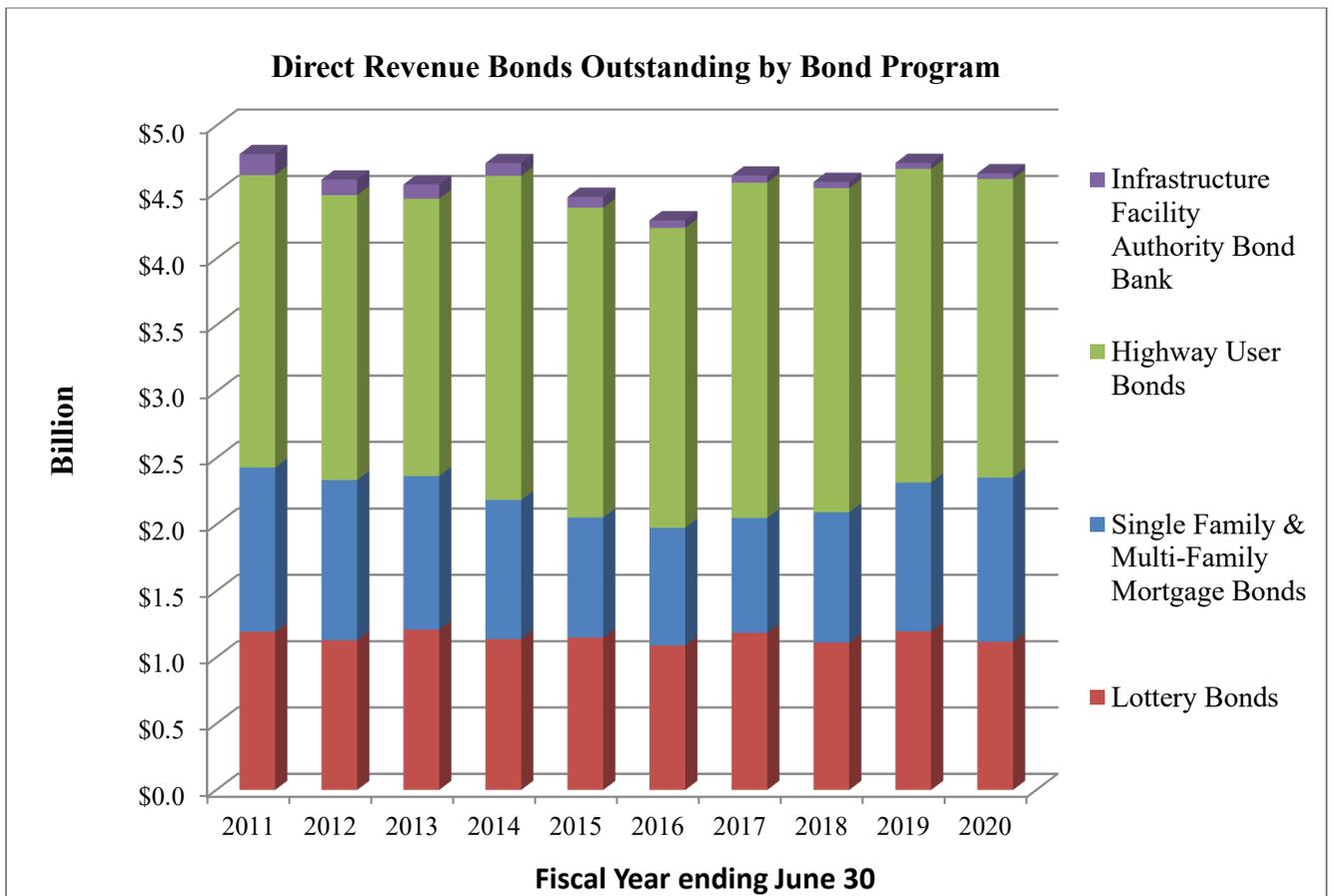
Exhibit II.2

General Obligation Indebtedness Over the Past Decade



As seen in *Exhibit II.3*, both the overall and individual components State direct revenue bonds outstanding have not increased over the past ten years, as existing revenue debt has been extinguished at about the same rate as new revenue debt has been issued. Over this time frame, outstanding revenue bonds for lottery-backed bonds remained constant, reflecting the balanced state approach of issuing new lottery bonds in amounts roughly equal to the amount of lottery debt that is retired each year.

Exhibit II.3



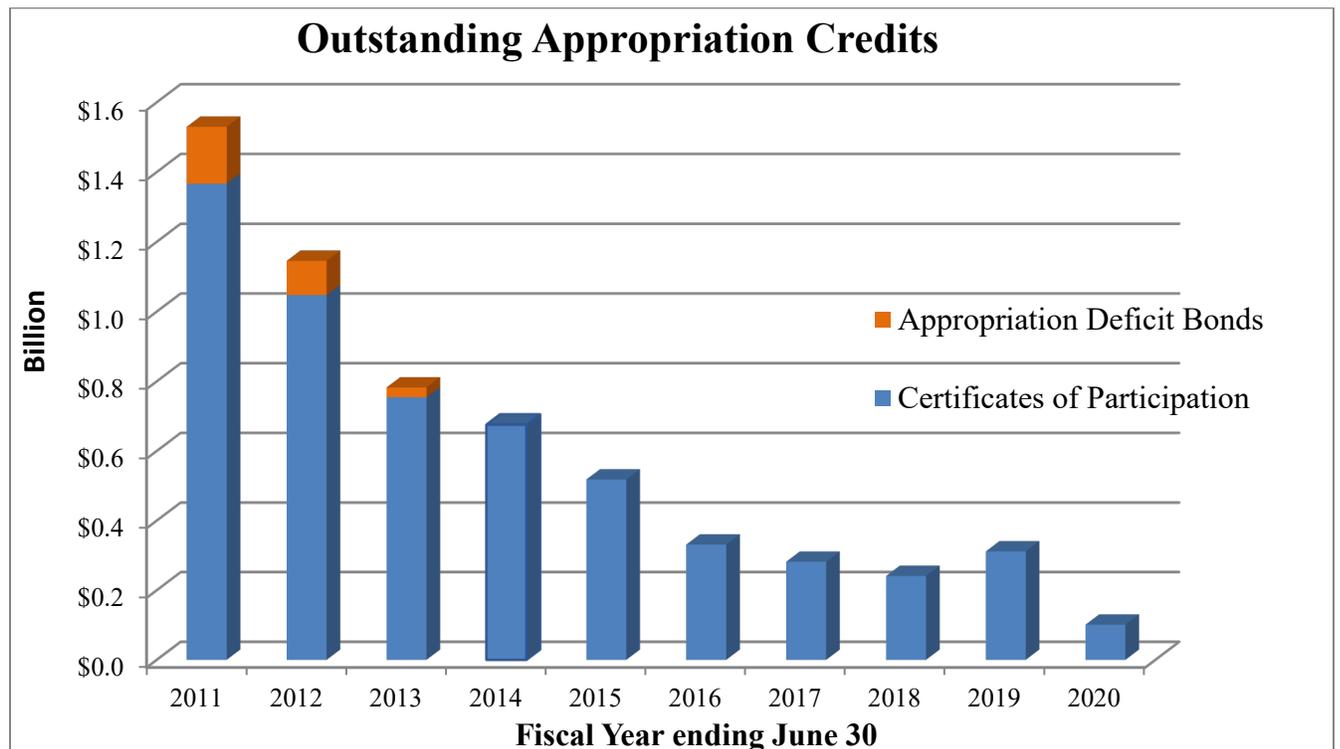
Appropriation obligations include both COPs and Appropriation bonds. The amount of appropriation obligations that can be issued is determined by the legislature each biennium. *Exhibit II.4* illustrates appropriation credit issuance history through fiscal year ending June 30, 2020.

The State’s original use of COPs was related to the passage of Ballot Measure 11 in 1994. Measure 11 created mandatory minimum penalties for specified crimes and required that juveniles charged with certain violent crimes be tried and sentenced as adults. At the time, there was not a constitutional provision that allowed for the issuance of GO bonds to fund general purpose state facilities. Therefore, COPs were used to fund the construction of adult and juvenile prisons and correctional facilities mandated by Measure 11. COPs were later used to fund the replacement of the aging Oregon State Hospital in Salem.

In 2010, the Oregon electorate approved the issuance of lower cost Article XI-Q general obligation bonds for State real or personal property projects. Since that time, \$632 million of COPs have been refunded as Article XI-Q GO bonds, saving the State \$101.4 million in interest costs on a present value savings basis over the remaining life of these obligations. It is unlikely the State will issue COPs much in the future other than in specific circumstances where the issuance of GO bonds is not legally feasible, as was the case in March 2019 when \$100 million in new COPs were sold to fund the partial decoupling of the Elliott State Forest from the Common School Fund.

The first and only authorized issue of State of Oregon Appropriation Bonds occurred in April 2003 in the amount of \$431.6 million. The bonds were authorized by Senate Bill 856 (2003) and enacted by the 2003 Legislature Assembly for the purpose of financing a portion of the State’s budget deficit which occurred towards the end of the 2001-03 biennium. These bonds were structured with a ten-year term and were paid off in full in September 2013.

Exhibit II.4



B. Future Capital Needs of the State of Oregon

As noted in this report, there is approximately \$1.56 billion in General Fund debt capacity available in each of the next four biennia. In addition, there will be on average approximately \$407 million in Lottery bond capacity available over each of the next four biennia. Given the many competing demands for project funding throughout the state, the Commission continues to recommend that the Governor and Legislature carefully evaluate how to best allocate this future debt capacity.

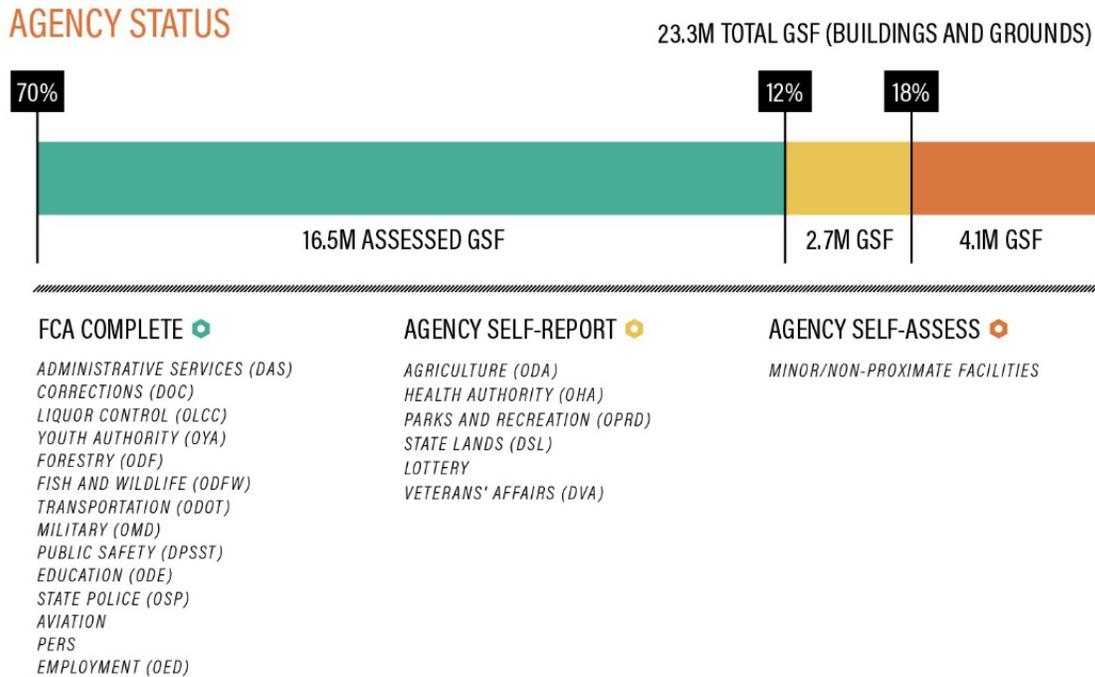
The State of Oregon has current and future capital needs related to maintaining aging, state-owned facilities (the mean age is 40 years). The state-owned facility portfolio, including higher education facilities, is approximately 39 million gross square feet (MGSF) located in over 5,100 separate buildings. State executive branch agencies are housed in 23.3 MGSF of this space and grounds in approximately 4,600 buildings and facilities valued at \$7.7 billion. Delaying ongoing maintenance, repairs and timely system replacements to the point that major renovations are required to maintain safe and adequate usage will cost significantly more. To the extent agency operating budgets are not sufficient to address ordinary maintenance and repairs of state facilities, this unmet need will continue to put pressure on the state's limited debt capacity to address deferred maintenance through extensive and expensive renovation projects.

ORS 276.227 requires the Department of Administrative Services (DAS) to establish a statewide planning process to evaluate the needs of the State's facilities, provide information on the condition of such facilities, establish guidelines for acquiring and maintaining facilities and provide financing and budgeting strategies to allocate resources to facilities' needs. In addition, state agencies are charged with implementing long-range maintenance and management plans to ensure that facilities are maintained in good repair and the useful lives of facilities are maximized. To assist agencies and the Legislature in prioritizing investment to steward the state's real estate assets, DAS implemented an initiative to collect detailed conditions information, including seismic and natural hazard risk assessments, on state-owned facilities. Using a statewide, programmatic approach, facility condition assessment (FCA) services were offered in the 2013-15 and 2015-17 biennia to agencies in an effort to ensure a consistent assessment methodology and uniform measure of facilities condition. During the 2017-19 biennium, several agencies self-funded their FCA's.

As shown in *Exhibit II.5* below, by the end of FY 2019, a total of 14 state agencies, comprising over 70 percent of agency-owned facility and grounds gross square footage, have completed their facility conditions assessments of major buildings and campuses. Based on these facility assessments, the capital renewal and deferred maintenance needs for assessed buildings are estimated to cost over \$1 billion within the next ten years.

Exhibit II.5

FACILITY CONDITION ASSESSMENT (FCA)



Source: Department of Administrative Services

The FCA process has also revealed that there is a great deal of variation in the current condition of state buildings and facilities by agency, as shown below in *Exhibit II.6*, with DAS, Public Safety and Transportation agency buildings ranked in good condition based on the Facility Condition Index (FCI) methodology shown below, with the balance of state agencies' buildings and infrastructure ranked in fair to poor condition. The FCI rating is based on a calculation of the cost of deferred maintenance and capital renewal needed for a given building compared to its current replacement value. The table below lists how each building's FCI is calculated:

$$\text{FCI (\%)} = \frac{\text{Facility Need (Capital Renewal and Deferred Maintenance Cost)}}{\text{Current Replacement Value}}$$

0% to 5%	Good condition
5% to 10%	Fair condition
10% to 60%	Poor condition
Greater than 60%	Very poor condition

The FCA analysis conducted by DAS also suggests that if additional resources are not dedicated over the course of the coming decade to the on-going funding of capital renewal and deferred maintenance, with the exception of ODOT, all state agencies' buildings and infrastructure will decline to the poor condition FCI level by FY 2029.

Exhibit II.6

FACILITY CONDITION ASSESSMENT (FCA)

AGENCY FCI

AGENCY*	2019 FCI	2019 CONDITION	2029 FCI	2029 CONDITION
ADMINISTRATIVE SERVICES (DAS)	8.6%	FAIR 	16.1%	POOR 
AVIATION	12.6%	FAIR 	14.3%	POOR 
CORRECTIONS (DOC)	8.88%	FAIR 	16.6%	POOR 
EDUCATION (ODE)	20.1%	POOR 	34.3%	POOR 
EMPLOYMENT (OED)	23.4%	POOR 	44.8%	POOR 
FISH & WILDLIFE (ODFW)	10.9%	POOR 	19.6%	POOR 
FORESTRY (ODF)	13%	FAIR 	24.7%	POOR 
LIQUOR CONTROL (OLCC)	8.1%	FAIR 	28.1%	POOR 
MILITARY (OMD)	5.7%	FAIR 	12.6%	POOR 
PERS	4.3%	GOOD 	4.5%	GOOD 
PUBLIC SAFETY (DPSST)	1%	GOOD 	18.2%	POOR 
STATE POLICE (OSP)	3.1%	GOOD 	13.3%	POOR 
TRANSPORTATION (ODOT)	2.5%	GOOD 	7.8%	FAIR 
YOUTH AUTHORITY (OYA)	13.3%	POOR 	22.8%	POOR 

*FCA AGENCIES ONLY

Source: Department of Administrative Services

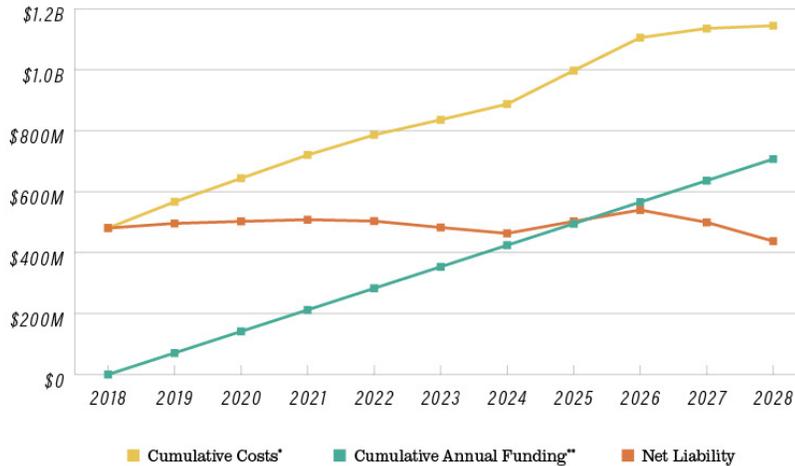
Given the results of the FCA analysis and the long-term savings that can be achieved by the State through the annual funding of on-going maintenance and repair of existing State facilities, the Commission applauds the 2017 Legislature for the passage of SB 1067, which will help the state take a more proactive approach to addressing the projected \$1 billion in deferred maintenance funding needed over the coming decade. SB 1067 requires that future Governors’ Budgets include funding of deferred maintenance and capital improvements on existing state-owned buildings and infrastructure, with minimum funding set at two percent of their current replacement value. As used in this context, the bill’s definition of “state-owned buildings and infrastructure” excludes buildings and infrastructure owned or used by public universities and community colleges or the state’s transportation infrastructure, such as its roads and bridges.

The 2019 State Legislature approved funding deferred maintenance and capital improvements at 2.95 percent of the current replacement value of state-owned buildings and infrastructure for the 2019-21 biennium. Based on this 2% per biennium formula and the current replacement value of \$7.7 billion for state-owned buildings and infrastructure, DAS projects that at a minimum funding level of \$154 million per biennium, the state investment would exceed the net growth in deferred maintenance by FY 2026, as shown in *Exhibit II.7*.

Exhibit II.7

10-YEAR FUNDING IMPACTS

STRATEGIC FUNDING OUTLOOK



*ESTIMATED CAPITAL RENEWAL/DEFERRED MAINTENANCE ONLY
**ASSUMES BIENNIAL FUNDING @ 2% OF TOTAL CRV (SB 1067) NORMALIZED TO 2018 DOLLARS

Source: Department of Administrative Services

Seismic and flood risk analyses have been completed for over 115 select DAS, Oregon Youth Authority, and Oregon Liquor Control Commission buildings. For the remaining eleven assessed agencies, the FEMA Rapid Visual Screening portion of facility risk assessments are complete. The benefit-cost analysis, recommended rehabilitation or replacement approach, and other mitigation prioritization, will require additional technical expertise to complete, and will occur as funding is provided by the Legislature. Additional funding of FCA analyses over time would allow the State to more actively continue to monitor State buildings and infrastructure.

In addition to upgrading state buildings, in recent years, the State Legislature established new grant programs funded with State bonds to incentivize Oregon local governments to address a myriad of their deferred maintenance and unmet capital needs (e.g. seismic retrofit of public school and public safety buildings, the creation of more affordable housing, county courthouse renovation and/or replacement, the development of new agricultural water infrastructure, and K-12 school capital improvements). While highly important to the State’s long-term economic viability, potential growth in these bond-funded grant programs will also put pressure on the State’s limited debt capacity.

Below is a list of some of the most pressing capital needs that have been identified as of the date of this report that were either funded in the 2019-21 biennium and/or will likely require funding in the future. While this list includes projects that were authorized to be funded with lottery bonds during the 2019-21 biennium, the State may not be able to issue all or any of the authorized bonds

if debt service coverage requirements cannot be met due to declining Lottery Revenue as a result of COVID-19 related restrictions.

Public Safety

Both the Oregon Youth Authority (OYA) and the Department of Corrections (DOC) have significant backlogs of deferred maintenance on their facilities, for which a combined \$60 million of Article XI-Q bonds was authorized in the 2019-21 biennium.

OYA maintains a 10-year strategic facilities plan that addresses the age and condition of OYA's facilities; environmental issues; needed seismic upgrades; and handicap access to the appropriate types of space for OYA programs related to treatment, recreation, housing, visitation, education and vocational training. The plan identified facility maintenance and renovation needs estimated at over \$50 million in 2018. OYA's 2014 Facilities Condition Assessment (FCA) report identified immediate as well as long term facility needs over a 10-year horizon. These findings along with a programmatic transformation in how youth are housed, informed OYA's future facility disposition and consolidation strategy.

At over 5.5 MGSF, DOC has the largest facility portfolio of all state agencies. Many of these critical facilities are very old and in poor condition, despite a regular program of maintenance within the context of limited resources. DOC's deferred maintenance and capital renewal needs assessed at \$150 million in 2018, and without action are projected to reach nearly \$300 million by 2028. DOC will need significant on-going funding to address accumulated deferred maintenance and capital renewal needs, as well as strategic seismic retrofits to many of its facilities.

The Oregon Military Department (OMD) identified over \$100 million in deferred maintenance and capital renewal needs in 2018, including new construction and maintenance/ renovation projects at armories, readiness centers and other OMD facilities located throughout the state. The 2019 Legislature authorized issuance of \$22 million of XI-Q bonds to match with federal funds to construct and upgrade multiple OMD facilities.

In 2015-17, the Oregon State Police (OSP) received authority to own and operate real estate. OSP is developing a strategic plan to address their patrol officer work force expansion which is expected to double over a ten-year period. The plan will also address deferred maintenance and functional obsolescence of some current facilities. For example, Phase One of the plan proposes replacement facilities for the Springfield forensics lab and area command center and deferred maintenance and capital improvements for its Central Point command center.

Education

Oregon's public universities have significant projected capital needs that include deferred maintenance of classrooms, dorms and other educational facilities. All seven public universities are governed by independent boards that are autonomous from State government and have legislative authority to issue revenue bonds to fund their capital needs. However, given the State's financial resources and superior credit rating, it is likely that a significant portion of the future capital improvements at public universities will continue to be funded through the issuance of State General Obligation (GO) bonds to fund a combination of grants and loans from the Higher Education Coordinating Commission (HECC) to the universities. To the extent that grants, rather than loans, are provided by the State, the capital needs of universities will continue to use a significant portion of available General Fund debt capacity.

HECC developed a 10-year strategic capital plan for Oregon's public universities that took into account both long-term demographic trends and the state's educational attainment goals for its citizens. The plan provides strategic guidance for maintaining and upgrading the public university capital asset portfolio through 2029 and will be helpful to HECC and the Legislature in future decision-making regarding the prioritization of bonding and capital budget recommendations. The most significant recommendation of this report is to prioritize the improvement and renewal of existing higher education capital assets, as demographic trends suggest limited future enrollment growth at all except a few public universities in Oregon. The report notes that national facility management "best practice" calls for investing at least 2.5 percent of the current replacement value per year in capital renewal of existing assets, which would translate into approximately \$250 million per year for the public university capital asset portfolio.

For the 2019-21 biennium, approximately \$79 million of General Fund supported GO bonds were authorized in the 2019 legislative session and an additional \$181 million in the 2020 Second Special Session to fund grants for public university capital projects. In addition, the 2019 Legislature authorized approximately \$75 million in General Fund-supported Article XI-G bonds for community college construction projects. However, \$22.9 million of the Article XI-G bond authority was removed during the 2020 Second Special Session because some community colleges were not expected to have the matching funds required for bond issuance in the 2019-21 biennium.

The issuance of \$126 million of general obligation bonds under Article XI-P was authorized for the 2019-21 biennium to provide matching funds to finance the capital costs of school districts. Capital costs include costs associated with acquisition, construction, improvement, maintenance or furnishing school facilities. The grant program is administered by the Department of Education in accordance with established grant eligibility and award requirements. Given the current condition of many school district facilities and the anticipated demand for matching grant monies, this program will likely need a significant portion of the state's General Fund debt capacity in future biennia.

Economic and Community Development

The Oregon Business Development Department (OBDD) administers the Seismic Rehabilitation grant program for seismic upgrade of public schools and public emergency services facilities within the state. The 2019-21 Biennium Bond Bill authorized the issuance of \$101 million in Article XI-M Seismic Rehabilitation GO bonds for public school seismic projects and \$20 million of Article XI-N Seismic Rehabilitation GO bonds for emergency services facilities. It should be noted that based on preliminary findings of the Oregon Department of Geology and Mineral Industries, there is a pressing need for the seismic retrofit of a significant number of Oregon's public schools and public safety facilities around the State, with an estimated cost of several billion dollars.

OBDD also administers the Special Public Works Fund (SPWF). For the 2019-21 biennium, the Legislature authorized \$33 million in Lottery Revenue Bonds to recapitalize the SPWF to provide grants or low interest loans to local governments for qualifying water related infrastructure projects and an additional \$17 million in Lottery Revenue Bonds specifically for levee improvement projects.

Given the shortage of affordable housing in Oregon, the 2019 Legislature authorized the issuance of Article XI-Q bonds to provide \$202 million proceeds and \$44 million of Lottery Bonds for low income housing projects through Oregon Housing and Community Services. During the 2020 Second Special Session, an additional \$50 million of Article XI-Q bonds were authorized for this same purpose. This represents a significant increase over amounts authorized in prior biennia.

Natural Resources

Water is essential for economic growth, environmental health, and the welfare of all Oregonians. Traditionally, the State of Oregon has left the development of water supply infrastructure to local entities and the federal government. In recognition of declining federal support and a rapidly increasing need for water infrastructure to meet Oregon's current and future instream and out-of-stream water needs, SB 839 (2013) established the foundation for a state grant and loan program for integrated water resources development in Oregon. This program was initially capitalized with the issuance of Lottery bonds during the 2013-15 biennium. The 2019 Legislature authorized \$17 million in Lottery bonds for water supply development projects during the 2019-21 biennium.

The buildings and infrastructure of natural resource agencies are specialized, widely dispersed and aging. Both Oregon Department of Fish and Wildlife (ODFW) and Department of Forestry have completed the FCAs of all their major facilities and facilities in the proximity of those facilities. Forestry's six regions have deferred maintenance of \$21 million and \$46 million in capital renewal needs by 2028. ODFW's buildings' deferred maintenance and capital renewal needs are \$16 million (2018) and \$30 million (2028) respectively; however, adding in their civil infrastructure (fish ladders, tanks, etc.) is expected to double these costs.

Judicial

The Oregon Judicial Department administers a grant program funded through the issuance of Article XI-Q GO bonds to finance costs related to acquiring, constructing, remodeling, repairing or furnishing county courthouses that are owned or operated by the State of Oregon. For the 2019-21 biennium, approximately \$145 million in XI-Q bonds were authorized in the 2019 legislative session to fund four courthouse projects; however, \$105 million of this authorization was removed during the 2020 Second Special Session because two of the projects were not ready to move forward in 2019-21. There is likely to be continued demand for state debt capacity for courthouse

projects, particularly for replacement projects in which construction may span multiple biennia. An additional \$28 million of XI-Q bonds was approved by the 2019 Legislative Assembly for renovations to the Oregon Supreme Court building.

Other Capital Needs

In addition to the projects already mentioned above, \$185 million of Lottery bonds were authorized in the 2019 legislative session to provide proceeds to fund regional and community projects across Oregon. However, \$55.4 million of Lottery bond authorization was removed during the 2020 Second Special Session. In recent biennia, the Legislative Assembly authorized the issuance of Lottery Revenue bonds to fund a wide range of Oregon regional and community economic development needs, including dredging and other port improvements, trade centers, planning for aquifer recharge and new irrigation systems, forest land acquisition, transit system expansions, parking garages, levee improvements, matching funds for federal disaster assistance, and public television infrastructure. Often, these types of projects are not financially feasible without the Legislature's allocation of Lottery bond proceeds for these purposes; thus, continued demand for these community needs can be expected in future biennia.

Also, approximately \$10 million of Article XI-Q GO bonds were authorized by the 2019 Legislature to finance capital improvements to Oregon State Fair facilities. Other bonding needs include the funding of large-scale IT system development and upgrades. These systems include the Department of Human Services' ONE Integrated Eligibility and Medicaid Eligibility System, the Department of Environmental Quality Data Management System, and the Legislative Administration Committee's Document Publishing and Management System. All of these projects were at least partially funded in 2019-21 through a total of \$52 million in Article XI-Q GO bonds; if implementation is not completed by the end of the biennium, these projects will likely require continued state debt financing during the 2021-23 biennium. In addition, \$69 million of Article XI-Q bonds were authorized during the 2020 Second Special Session for capital improvements to the State Capitol building.

Other Potential Impacts on State Debt Capacity

To date, the use of bond proceeds has not been authorized by the legislature to assist in the structured settlement of large lawsuits against the State of Oregon. However, there are examples of other jurisdictions around the country issuing "judgment obligation" bonds for this purpose. Since the Oregon Constitution restricts general obligation bond issuance to a limited range of voter-approved purposes, the use of bonding for large lawsuit settlements would be restricted to appropriation-based debt.

If a significantly large enough lawsuit against the State was won by a plaintiff, this long-term liability would likely be considered by rating agencies and others as part of the State's general fund "indebtedness" and should be counted against its debt capacity. The \$1.065 billion verdict in the lawsuit brought by several Oregon counties and special districts regarding unrealized forest revenues is an example of a large lawsuit that would qualify as meeting the above criteria. Even though the case will be appealed, the State may consider reserving future debt capacity for any potential settlement. The Legislature and Governor should remain mindful of these potential types of events and the long-term budget implications that lawsuits of this nature can have on the State's General Fund-supported debt capacity.

C. Timing of State Bond Sales

In addition to determining the specific projects that will be authorized for bonding in the biennial Bond Bill, the Legislature in recent years has also directed the specific timing of State bond sales by delaying the appropriation of debt service on state funded projects until the following biennium. As a result, the majority of State General Obligation and Lottery Revenue Bonds have been sold during the last few months of the biennium in which they were initially authorized. While this strategy may have been necessary from an overall state budget management perspective in the years following the Great Recession, it has not always resulted in the State being able to achieve optimal interest rates at the time of the sale of these bonds. The clustering of a number of large dollar Oregon bond issues in too short a time frame floods the capital markets to the point where supply exceeds demand, which in turn requires the State to offer bonds at higher interest rates than would otherwise be required to assure their final placement with investors.

The Commission encourages decision-makers to reconsider this delayed debt service budget strategy and allow a larger percentage of approved capital projects to be financed in the first year of the biennium. This approach would spread out the sale of State bonds in a more even fashion and allow for a better balance of supply and demand for our bonds across the entire biennium. Additionally, from a long-term financial management perspective, this approach contributes to effective interest cost averaging of the State's debt portfolio.

III. GENERAL FUND-SUPPORTED DEBT CAPACITY

A. Debt Burden

The key indicators most commonly used by the rating agencies and municipal analysts to evaluate a state’s debt burden include debt per capita, debt to personal income and debt service to revenues. We measure our State’s debt burden and capacity based on the percentage of debt service (i.e. principal and interest) to revenues. In this section, we compare debt service for General Fund-supported debt as a percent of General Fund revenues, or;

Debt Service for General Fund-supported Debt
General Fund Revenues

States recognized as having sound debt management practices typically use a range between 5 percent and 10 percent of revenues in determining their capacity measurements, with 5 percent as a frequent commitment. Many states now conduct debt affordability studies to provide policymakers with a clear understanding of their states’ debt levels through, among other things, careful projections, smart benchmarking comparisons, multiple descriptive metrics, and analysis. The states that produce affordability studies also vary in how they structure their debt. Some have highly centralized debt structures, while others delegate a higher share of total borrowing to independent agencies and authorities.

For purposes of determining Oregon’s capacity standard, the Commission concludes that there exists a range under which the State can evaluate its capacity. This range exists between a low of 0.0 percent and a high of 10 percent.

In the following illustration, a ratio within the “green” area signifies that the State is within a prudent capacity range to pay debt service, and thus, has capacity to issue additional General Fund-supported debt obligations. A ratio within the “yellow” area signifies that the State’s capacity is entering a cautionary zone where debt exceeds prudent capacity targets and may result in negative implications to the State’s long-term credit rating and cost of funds. At this level, it would be wise for the State to reevaluate bonding priorities. Finally, were the State to reach a ratio within the “red” zone, consequences would be expected to include increased interest costs, negative credit rating impacts, and reduced access to capital markets.

Target debt capacity range can be visualized as follows:

General Fund-supported Debt Payments as a Percentage of General Fund Revenues

0% to 5% “Green”	Over 5% to 7% “Yellow”	Over 7% to 10% “Red”
Capacity Available	Exceeds Prudent Capacity Target	Capacity Limits Reached

B. Inputs & Assumptions for General Fund Debt Capacity Model

As required by ORS 286A.555, the Commission’s model projects debt capacity over the same number of years as the quarterly Office of Economic Analysis’ (OEA) Economic and Revenue forecast, which provides a General Fund forecast for the next ten years. The model looks at General Fund-supported debt programs as a whole, intending for the Governor and Legislature to determine which specific programs will receive funding within the capacity range.

This *2021 Commission Report* provides a look at debt capacity from FY 2020 through FY 2029 based on the OEA’s December 2020 Forecast and the bonding authorizations contained in the 2019-21 Biennium Bond Bill.

The model calculates General Fund-supported debt capacity using a target ratio of General Fund-supported debt service to General Fund revenues. The Commission utilizes 5 percent as the model’s capacity target because it is the dividing point between a “green/available” capacity level and a “yellow/cautionary” target level. It is acknowledged that this 5 percent target is not a strict capacity limitation, but rather reflects an approach into the “yellow/cautionary” capacity range. The movements from one target level to the next signals the need for a reevaluation of existing debt authorization and future bonding priorities.

The model first solves for “overall capacity” to pay debt service on General Fund-supported debt issuance. As noted earlier, the following programs are considered General Fund-supported debt obligations for purposes of this report:

- State Highway Bonds (Article XI-Section 7)
- Higher Education Facility & Community College Bonds (Article XI-G)
- Pollution Control Bonds (Article XI-H) (46% of program debt service)
- Alternate Energy Bonds (Article XI-J) (40% of program debt service)
- Oregon Opportunity Bonds (Article XI-L) (for OHSU projects)
- Seismic Rehab – Public Education Buildings Bonds (Article XI-M)
- Seismic Rehab – Emergency Service Buildings Bonds (Article XI-N)
- Public School Facility Bonds (Article XI-P)
- State General Purpose Bonds (Article XI-Q) (92% of program debt service)
- State Pension Obligation Bonds (34% of program debt service)
- Certificate of Participation obligations (ORS 283.085 to 283.092) (100% of program debt service)

As shown in *Table III.1*, the model solves for overall debt capacity for fiscal years 2020 through 2029 using the most recent General Fund forecast from OEA and 5 percent of General Fund revenues as the maximum debt service capacity limit. Based on this capacity limit, the model illustrates that yearly dollars to pay debt service ranges from \$415 million in FY 2020 to \$805 million in FY 2029.

Table III.1

General Fund Forecast of Revenues and Dollars Available for Debt Service (\$ Million)		
Fiscal Year ending June 30th	Net General Fund Revenues ⁽¹⁾	Dollars Available to Pay Debt Service at 5% Target (Capacity)
2020	\$ 8,299.2	\$ 415.0
2021	12,868.6	643.4
2022	10,925.3	546.3
2023	11,283.3	564.2
2024	12,150.6	607.5
2025	12,825.1	641.3
2026	13,577.2	678.9
2027	14,357.9	717.9
2028	15,347.9	767.4
2029	16,102.8	805.1

⁽¹⁾ General Fund revenues are shown as projected by the Oregon Office of Economic Analysis in the most recent *Oregon Economic and Revenue Forecast, table General Fund Revenue Forecast by Fiscal Year*

After determining the yearly dollars available, the portion already committed to annual debt service on outstanding General Fund debt, as well as amounts used to pay debt service on authorized General Fund-supported bonds expected to be issued over the remainder of the biennium is calculated. For purposes of this report, we assume that all \$1.14 billion in General Fund-supported debt authorized by the 2019-21 Biennium Bond Bill will be fully issued by June 30, 2021.

The new General Fund-supported debt includes the following: update based on the 2019-21 Biennium Bond Bill:

- \$52.4 million in XI-G GO bonds for 50% matching grants for community college building projects;
- \$50.6 million XI-G Higher Education Facility Bonds;
- \$101.2 million in XI-M GO bonds for seismic upgrade grants to public schools;
- \$20.3 million in XI-N GO bonds for seismic upgrade grants to public safety facilities;
- \$126.1 million in XI-P GO bonds for matching grants for K-12 school capital improvements; and

- \$788.9 million in XI-Q GO bonds for various state agency capital projects, matching grants for county courthouse projects and gap funding for affordable multifamily housing projects.

Projected annual debt service payments on the planned new General Fund supported debt are based on the following assumptions:

- Level annual debt service payments;
- An interest rate of 4.50%, the standard rate used in annual SDPAC reports, which is 74 basis points higher than the 10-year average of the *Bond Buyer 20-Bond Index* which was 3.76% as of December 15, 2020¹; and
- Twenty-year average maturity length for all General Fund-supported debt obligations.

The model forecasts the remaining dollars available to pay debt service on future issuance, and therefore bonding capacity, by introducing known annual debt service payments for outstanding debt and the projected debt service payments for planned issuance. This is shown in *Table III.2*. A detailed outline of debt service requirements for each General Fund-supported debt program is provided in *Appendix A* to this report.

Table III.2

Remaining General Fund Dollars Available to Future Debt Issuance (\$ Millions)				
	1	2	3	4
Fiscal Year (ending June 30th)	Available (1) Dollars to Pay Annual Debt Service (at the 5% target)	(Less) Annual Payments for Debt Service on Existing General Fund-Supported Debt Outstanding	(Less) Projected Annual Payments for Debt Service on New General Fund-supported Debt	Remaining Dollars Available to Pay Debt Service on Future Debt
2021	643.4	(448.5)	0.0	194.9
2022	546.3	(426.4)	(67.3)	52.6
2023	564.2	(421.9)	(67.3)	75.0
2024	607.5	(403.9)	(67.3)	136.3
2025	641.3	(382.2)	(67.3)	191.7
2026	678.9	(380.4)	(67.3)	231.2
2027	717.9	(371.4)	(67.3)	279.2
2028	767.4	(263.7)	(67.3)	436.4
2029	805.1	(257.0)	(67.3)	480.9

(1) This represents the total annual (fiscal year) debt service requirement on all General Fund Paid debt issued through FY21. See Appendix A for detail.

¹ The *20-Bond Index* consists of 20 general obligation bonds that mature in 20 years. The average rating of the 20 bonds is roughly equivalent to Moody’s Investors Service’s Aa3 rating and Standard & Poor’s AA-minus rating.

The overall dollars available to pay debt service as determined in *Table III.1* is illustrated in *Table III.2* column 1 above. Columns 2 and 3 are the principal and interest payments for outstanding General Fund-supported debt and for new authorized issuances respectively. The remaining dollars available to pay debt service (column 4) is determined by subtracting the outstanding and planned issuance debt service (columns 2 and 3) from the overall calculated dollars available (column 1).

As outlined above, remaining dollars to pay for debt service on future State bonds varies over the forecast period as projected General Fund revenues change and as debt service requirements are amortized on existing State debt obligations. *Table III.3* displays the remaining dollars available to pay debt service on future debt issuance. The overall calculation of remaining General Fund dollars is based on the previously presented assumptions and with reductions each year to reflect the addition of new General Fund debt service.

Table III.3

**Future General Fund Debt Capacity
Using Debt Service to General Fund 5% Target**

	1	2	3	4	5
Fiscal Year (ending June 30th)	"Remaining" General Fund Dollars to Pay Debt	Maximum Amount of Additional Debt that May be Issued	(Less) Debt Service on Amount of Additional Debt that May Be Issued	Net Dollars Remaining to Pay Debt Service	Debt Service as % of General Fund Revenues
2021	194.9	-	-	194.9	3.5%
2022	52.6	683.6	(52.6)	0.0	5.0%
2023	75.0	291.7	(22.4)	-	5.0%
2024	136.3	797.6	(61.3)	-	5.0%
2025	191.7	721.4	(55.5)	-	5.0%
2026	231.2	512.8	(39.4)	-	5.0%
2027	279.2	625.1	(48.1)	-	5.0%
2028	436.4	2,044.2	(157.1)	-	5.0%
2029	480.9	578.6	(44.5)	-	5.0%
Future General Fund Paid Debt (Capacity)		\$ 6,254.9			

Table III.3 accounts for all outstanding and planned issuance of General Fund-supported debt, as authorized by the Legislature for the 2019-21 biennium, as well as the maximum amount of additional General Fund supported-debt that could be issued each year of the forecast period while staying within the Commission’s target debt capacity target of 5 percent debt service to General Fund revenues.

Based on the analysis above, the Commission concludes that the General Fund-supported debt issuance amounts illustrated in *Table III.3* would allow the State to issue a maximum of \$6.3 billion in additional General Fund-supported debt from FY 2022 through FY 2029 in addition to the \$1.14 billion already authorized by the 2019 Legislature and the 2020 Second Special Session.

C. Capacity Considerations

The Commission emphasizes that while the State has the capacity to issue General Fund-supported debt in the amounts outlined in *Table III.3*, issuance of State bonds at this level has significant budgetary impacts that can extend for long periods of time into the future. An increase in monies used to finance General Fund-supported debt service could result in a reduction of funding for other State-supported programs, particularly in periods of economic downturns.

In addition, the Commission also cautions that while the current model shows that the State has substantial debt capacity over the forecast period, this capacity can sharply decline if there is a substantial drop in future General Fund revenue levels or if interest rates rise more than predicted in the model. To address the large backlog of capital needs throughout the state, the Commission recommends that the Governor and Legislature continue the policy of spreading debt capacity evenly over future biennia.

Table III.4, below, illustrates the averaging of the State’s debt capacity over the forecast period. Using this approach, the State has \$1.56 billion of general fund debt capacity in each biennium during the forecast period. This averaging approach results in Debt Service as a percent of General Fund revenues exceeding the 5 percent target in some years but ultimately returning to the 5 percent target by the end of the forecast period. This averaging approach provides a long-term planning tool for the funding for the State’s highest priority capital projects over time, regardless of economic and revenue fluctuations that may occur over the forecast period.

Table III.4

General Fund-Supported Debt Capacity (\$ Millions)			
Fiscal Year ending June 30th	Maximum Annual Amount of Additional Debt that Should be Issued	(Less) Debt Service on "Future" Debt Issued	Debt Service as of % of General Fund Revenues
2022	781.9	(60.1)	5.1%
2023	781.9	(60.1)	5.4%
2024	781.9	(60.1)	5.4%
2025	781.9	(60.1)	5.4%
2026	781.9	(60.1)	5.5%
2027	781.9	(60.1)	5.6%
2028	781.9	(60.1)	4.9%
2029	781.9	(60.1)	5.0%
Total Additional General Fund Capacity	6,254.9		

Table III.5 and Table III.6 illustrate the potential impact of changing interest rates and revenues on the forecast of the State’s General Fund debt capacity. Based on planned debt issuances of \$1.14 billion over the 2019-21 biennium and estimates of General Fund revenues for the balance of the forecast period, remaining general fund capacity is \$6.3 billion. Our interest rate sensitivity analysis indicates that a 1 percent increase in the assumed long-term interest rate would decrease capacity by \$466.7 million (Table II.5) while a 1 percent decline results in increased capacity of \$794.6 million.

Table III.5

Forecast of General Fund Debt Capacity With Changing Interest Rates FY 2022 - FY 2029 (\$ Million)			
	Projected Debt Capacity at 4.5% Interest Rate	5.5% Interest Rate (1.0% Increase)	3.5% Interest Rate (1.0% Decrease)
Total	\$ 6,254.9	\$ 5,788.2	\$ 7,049.5
Difference from Base Case		(\$ 466.7)	\$ 794.6

Table III.6, below, evaluates the sensitivity of general fund debt capacity to changes in general fund revenues. As shown below, a 10 percent decline in revenue over the forecast period would decrease debt capacity by approximately \$924.3 million and a 10 percent increase in general fund revenue will increase general fund debt capacity by \$1.17 billion. (Table III.6).

Table III.6

Forecast of General Fund Debt Capacity With Changing General Fund Revenue Forecasts FY 2022 - FY 2029 (\$ Million)			
	Projected Debt Capacity with Current Long-Term General Fund Forecast	10% Increase in Long-term GF Revenue Forecast	10% Decrease in Long-term GF Revenue Forecast
Total	\$ 6,254.9	\$ 7,425.2	\$ 5,330.6
Difference from Base Case		\$ 1,170.3	(\$ 924.3)

IV. LOTTERY REVENUE DEBT CAPACITY

Due to the importance of State Lottery Revenue for funding various State programs and activities, the Commission believes it is important to point out that the State's continued ability to issue Lottery Revenue bonds is predicated on the prudent management and sound fiscal position of the State Lottery program itself. Accordingly, for purposes of determining capacity, the Commission has chosen to view the Lottery Revenue bond program as distinct from both net tax-supported and General Fund-supported debt programs.

A. Unobligated Net Lottery Proceeds

Article XV, Section 4 of the Oregon Constitution requires the Legislative Assembly to appropriate Unobligated Net Lottery Proceeds or revenues to first repay Lottery bonds, before appropriating the proceeds for any other purpose.

In each fiscal year, and prior to any use of such moneys for any other purpose, all unobligated net Lottery Revenue is deposited into the Debt Service Account established for Lottery Revenue bonds until all scheduled debt service for the fiscal year has been provided for. The unobligated net Lottery proceeds consist of all revenues derived from the operation of the State Lottery except for revenues used for the payment of prizes and expenses of the State Lottery.

Once debt service on Lottery Revenue bonds is paid annually, the remaining Lottery Revenue is distributed to the Education Stability Fund, the Parks and Natural Resources Fund, the Veterans Services Fund, and the Outdoor School Education Fund, as required by the Constitution. Excess Lottery Revenue is then allocated and applied to certain economic development and educational purposes. The Education Stability Fund and the Parks and Natural Resources Fund are allocated 18 percent and 15 percent respectively of unobligated net proceeds; the Veteran Services Fund receives 1.5 percent, and the Outdoor Education Fund receives the lesser of 4 percent or \$22 million per year. In addition, an amount of not less than 1% of net Lottery proceeds is allocated to the Problem Gambling Treatment Fund, which is separate and distinct from the General Fund. Article XV, Section 4 of the Oregon Constitution and applicable Oregon law allocate any remaining amounts to various economic development and public education projects as authorized.

In 2019, SB 1049, an act relating to the public employee retirement system was enacted. Among other provisions of the Act, SB 1049 Section 42:44 directs the Oregon State Lottery Commission to separately record and account for the costs and net proceeds of Sports Betting Games and certify such revenue transfer to Oregon Department of Administrative Services and DAS shall make annual transfer of the amount equal to the net proceeds of sports betting games to the Employer Incentive Fund under PERS. Although these revenues are earmarked for PERS, such transfer under SB 1049 does not affect the amount of Unobligated Net Lottery Revenue for debt service coverage purposes.

The forecast summary of net Lottery Revenue is presented in *Table IV.1*. Total available Lottery resources are net of Lottery prizes and administration. Also shown are the projected debt service for outstanding Lottery bonds and the projected debt service coverage ratio as of June 30, 2020; assuming that no additional Lottery bonds are issued either this biennium or in the future.

Table IV.1

**Forecast of Lottery Revenue and
Debt Service Coverage Ratios
(\$ Millions)**

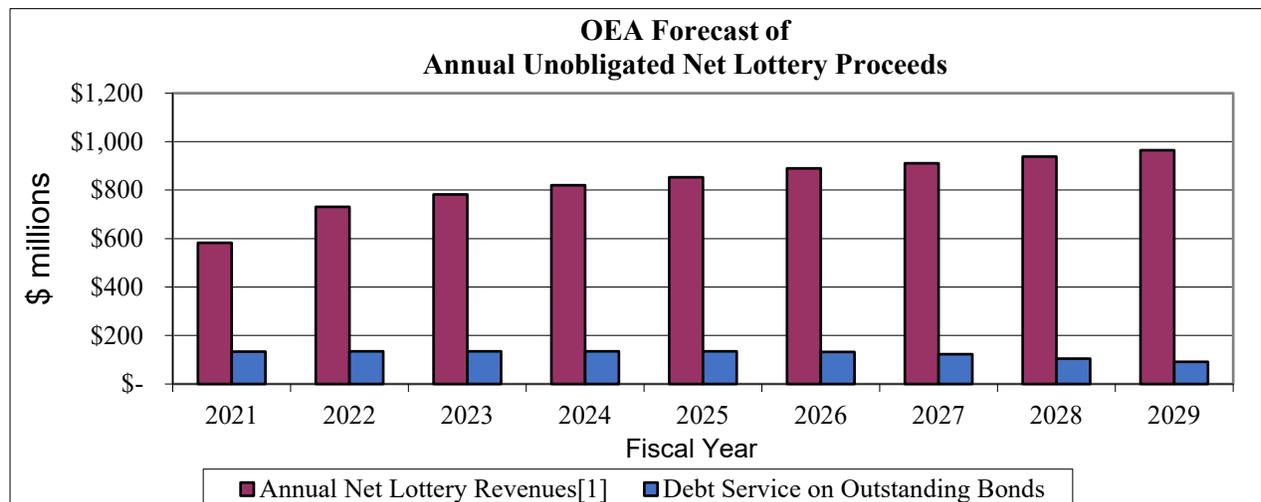
Fiscal Year	Annual Net Lottery Revenue^{1,2}	Debt Service on Outstanding Bonds	Projected Debt Service Coverage
2020	\$ 699.0		5.2
2021	582.1	133.3	4.3
2022	730.7	135.3	5.4
2023	781.8	134.9	5.8
2024	819.6	134.9	6.1
2025	852.9	134.9	6.3
2026	889.5	132.4	6.7
2027	911.2	123.0	7.4
2028	939.0	104.7	9.0
2029	964.6	91.5	10.5

¹ Oregon Office of Economic Analysis, Oregon Economic and Revenue Forecast, December 2020

² Since the release of the December 2020 Forecast, Executive Order (EO) 20-65 and EO 20-66 has resulted in the closure of certain facilities and the disabling of video lottery games during the temporary freeze and subsequently in counties categorized as Extreme Risk. These closures are expected to result in material reduction to FY 2021 Lottery Revenue.

Exhibit IV.1 below graphically displays the debt service on outstanding Lottery Revenue bonds relative to total Lottery Revenue, the difference of which is proceeds available to the State for other purposes.

Exhibit IV.1



¹ Oregon Office of Economic Analysis, Oregon Economic and Revenue Forecast, December 2020.

² Includes Lottery bonds issued through June 30, 2020.

B. Lottery Revenue Debt Capacity and Coverage Ratios

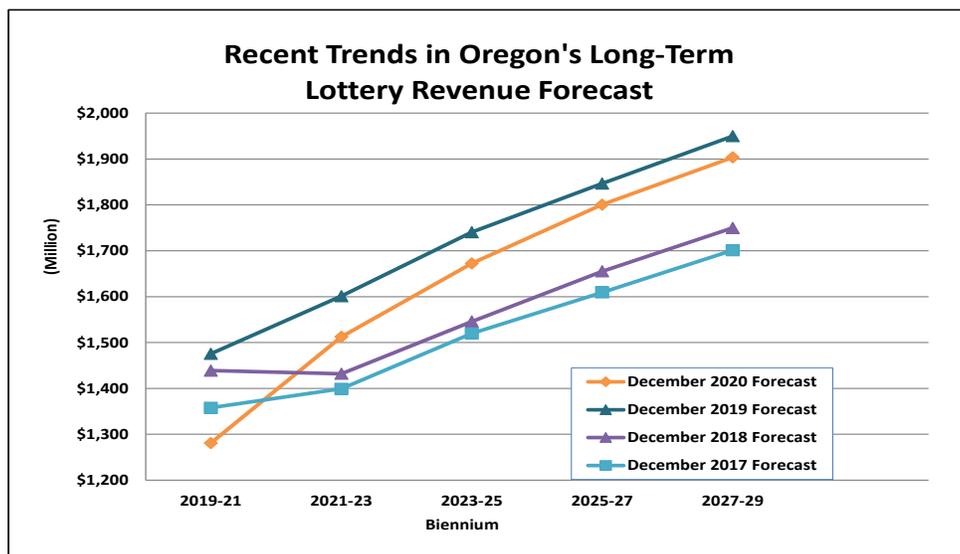
The most appropriate means of determining future debt capacity for this program is its current legal debt service coverage requirements. Such analysis compares expected debt service requirements to the available revenues pledged to repay this debt service. The extent to which the available revenues are forecasted to exceed debt service requirements is referred to as the debt service coverage ratio.

The Commission's current lottery bond capacity policy is that combined existing and proposed lottery debt service should not be more than 25 percent of net unobligated Lottery Revenue, which means that the debt service coverage ratio should not fall below a four times coverage. The four-times coverage ratio is viewed by rating agencies as a conservative yet realistic level and is incorporated in the State's Lottery Revenue bond indenture as a general bond covenant. This means that for the State to issue new Lottery-backed bonds, unobligated net Lottery Revenue must be at least four times the maximum annual debt service on all outstanding Lottery bonds, with the debt service on new proposed Lottery bonds treated as part of the debt service ratio calculation.

Over the past several years, the Commission's has lowered its estimate of the State's future Lottery debt capacity based on downward revisions from the Office of Economic and Analysis (OEA). These revisions of long-term Lottery Revenue are due to the prospect of gaming competition in Washington and trends in reduced consumer spending on gaming. In October 2019, sports betting was introduced by the Oregon State Lottery and is now included in the long-term revenue forecast but represents less than 2 percent of net proceeds. OEA's most recent forecast of long-term Lottery Revenue is higher than 2018 and 2019 levels due to actual Lottery collections and a revised view of the impact that the new casino in Washington State will have on future Lottery Revenue.

As *Exhibit IV.2* shows, while the December 2020 Forecast is higher than the amounts presented in the 2018 and 2019 SDPAC reports, this most recent forecast is below the levels initially contained the 2020 SDPAC Update report. The December 2020 Forecast records a significant dip in the 2019-21 biennium Lottery Revenue due to disabled video terminals in restaurants, bars, and gathering facilities as the State implements measures to curtail the spread of COVID-19.

Exhibit IV.2



Source: Oregon Office of Economic Analysis, December Economic and Revenue Forecast Reports, 2017 - 2020.

Based on the December 2020 Forecast projections of Annual Unobligated Net Lottery Proceeds and the targeted four-times (4.0) coverage ratio, as displayed in *Table IV.2*, the estimated available dollars for annual debt service ranges from \$582.1 million in FY 2021 to \$964.6 million in FY 2029 which is down from pre-COVID 19 forecasts.

The following calculation is used to determine maximum annual lottery debt service:

$$\text{Unobligated Net Lottery Revenue} \div \text{Required Coverage Ratio} = \text{Maximum Annual Debt Service}$$

For FY 2021, the maximum annual debt service supportable by forecasted FY 2021 Lottery Revenue in the December 2020 Forecast is as follows:

$$\text{\$582.1 million} \div 4 \text{ Times Coverage} = \text{\$145.5 million}$$

In order to arrive at the capacity for new Lottery Revenue bonds, total debt service on outstanding lottery bonds and the debt service of the proposed new lottery revenue bonds must fall within the allowable maximum annual debt service.

The capacity forecast for Lottery Revenue bonds, illustrated in *Table IV.2*, accounts for:

- All outstanding Lottery Revenue bonds as of June 30, 2020, and
- Assumes the issuance of \$159 million of the \$247 million Lottery Revenue bonds authorized for the 2019-21 biennium are issued in FY 2021; and
- Estimates remaining capacity to issue additional Lottery Revenue bonds from FY 2022 through FY 2029.

Projected net unobligated Lottery Revenue available to pay Lottery Revenue bond debt service are displayed in *Table IV.2* column 1. The Lottery Revenue bond debt service, as presented in *Table IV.2* column 2, accounts for existing debt service, as of June 30, 2020. Additionally, the December 2020 Forecast projects available Lottery Revenue bond debt service capacity of \$12.2 million which, if realized would provide for issuance of \$159 million of the \$247 million of authorized Lottery Revenue bonds in FY 2021, assuming a 4.5% interest rate¹ and a 20-year amortization period. The debt service on all future Lottery Revenue bonds are projected using a similar interest rate and term.

Table IV.2 column 4 shows projected debt service for FY 2022 through FY 2029 resulting from the issuance of additional Lottery Revenue bonds at the required coverage of four-times unobligated net Lottery Revenue. Based on the assumptions provided above, there is a projected maximum of \$1.63 billion in Lottery Revenue bond capacity for the forecast period FY 2022 through FY 2029.

Based on the December 2020 Forecast, aggregate Lottery Revenue bond capacity in the current biennium and over the forecast period (FY 2022 -FY 2029) is \$1.79 billion.

We note that the December 2020 Forecast of Lottery Revenue preceded the temporary freeze implemented pursuant to EO 20-65 and the ongoing closures in select counties that are categorized as Extreme Risk as determined under EO 20-66. As a result, there is significant uncertainty

¹ The assumed interest rate of 4.5% is the new standard rate that will be used in the Commission's annual reports. The 20-Bond Index consists of 20 general obligation bonds that mature in 20 years. The average rating of the 20 bonds is roughly equivalent to Moody's Investors Service's Aa3 rating and Standard & Poor's AA- minus rating.

regarding the availability of Lottery proceeds to provide sufficient capacity to issue new Lottery Revenue bonds in the current biennium.

The table below uses the December 2020 Forecast and assumes the issuance of \$159 million of Lottery Revenue Bonds in the FY 2021. In addition, our model indicates that forecasted Lottery Revenue will support the issuance of \$1.63 billion over the forecast period (FY 2022 – FY 2029).

Table IV.2

Lottery Debt Capacity Determination (\$ Millions)						
Fiscal Year	Estimated Lottery Revenue Available to Pay Debt Service	Debt Service Bonds Outstanding as of June 30, 2020 and Planned FY 20-FY21 Issuance	Maximum Amount of New Debt Issuable Within Debt Service Coverage Requirements	Projected Debt Service on Additional Issuance	Debt Service Ratio	Debt Service as a % of Lottery Revenue
2022	730.7	(147.6)	297.7	(22.9)	4.0	25%
2023	781.8	(147.2)	170.9	(13.1)	4.0	25%
2024	819.6	(147.2)	123.1	(9.5)	4.0	25%
2025	852.9	(147.2)	108.2	(8.3)	4.0	25%
2026	889.5	(144.7)	151.4	(11.6)	4.0	25%
2027	911.2	(135.3)	193.2	(14.9)	4.0	25%
2028	939.0	(116.9)	329.3	(25.3)	4.0	25%
2029	964.6	(103.8)	254.3	(19.5)	4.0	25%
Max. Lottery New Debt Capacity			\$1,628			

C. Other Lottery Revenue Capacity Considerations

As is the case with General Fund supported debt capacity, the Commission recommends that projected Lottery Revenue debt be evenly spread out over time, in order to assure that the State does not overcommit this scarce resource. *Table IV.3* displays the Commission’s recommended approach to allocating Lottery debt capacity over time, an approach that has historically protected the high credit ratings on the State’s Lottery Revenue bonds in times when Lottery Revenue have dropped sharply.

The Oregon Lottery launched online sports betting in October 2019, with the resulting increase in net Lottery proceeds that this new program is expected to generate (approximately 2 percent of overall revenue) now incorporated into both the long-term Lottery Revenue and Lottery debt capacity forecasts.

Table IV.3

Recommended Allocation of Additional Lottery Revenue Debt Capacity (\$ Million)			
Fiscal Year (ending June 30th)	Maximum Annual Amount of Additional Debt Recommended (Average)	Debt Service Coverage Ratio on Current, Planned & Recommended Average Issuance	Debt Service as % of Net Lottery Revenue
2022	203.5	4.5	22%
2023	203.5	4.4	23%
2024	203.5	4.2	24%
2025	203.5	4.1	25%
2026	203.5	4.0	25%
2027	203.5	4.0	25%
2028	203.5	4.1	24%
2029	203.5	4.2	24%
Max. New Debt Capacity	\$ 1,628.0		

On occasion, the State has been required to issue a portion of its Lottery Revenue bonds on a taxable basis; generally, taxable Lottery Revenue bonds have funded economic development activities that do not fit into the Federal government’s tax rules regarding “qualified” private activity. Bonds issued on a taxable basis results in a higher overall interest rate than the tax-exempt rates assumed in the capacity calculation above. In addition, proposed changes in the Federal tax code that may reduce or eliminate tax-exemption could also further reduce long-term Lottery bond capacity, as these changes would increase the interest cost paid by the State to investors on future State bond issues.

Table IV.4 illustrates the impact of changes to long-term interest rate assumptions in the Lottery debt capacity model. Based on current estimates of annual unobligated net Lottery Revenue and the assumed long-term interest rate of 4.5 percent, the capacity of Lottery Revenue to support additional bond issuance is calculated to be \$1,627.9 million over the balance of the forecast period. A 1.0 percent increase in the projected long-term interest rate on these bonds to 5.5 percent would reduce the maximum available capacity over this period by approximately \$158.2 million; conversely, a reduction in the interest rate assumption by 1.0 percent to 3.5 percent would add roughly \$237.3 million in capacity over the forecast period.

Table IV.4

Forecast of Lottery Revenue Debt Capacity*
From FY 2020 to FY 2029
at Various Assumed Interest Rates
(\$ Million)

	4.5 % Interest Rate	3.5 % Interest Rate (1% Decline)	5.5 % Interest Rate (1% Increase)
Total	\$1,627.9	\$ 1,865.3	\$ 1,469.7
Difference from Base Case		\$237.3	\$(158.2)

As the recent past has demonstrated, downward revisions in projected long-term Lottery Revenue have had a substantial impact on projections of future Lottery bond capacity. As shown in *Table IV.5*, a 10 percent reduction in unobligated net Lottery Revenue over the forecast period would reduce the available debt capacity by \$313.6 million over the next four biennia. Conversely, a 10%, as *Table IV.5* illustrates, a 10 percent increase in projected Lottery Revenue would add \$368.9 million to the long-term debt capacity over the forecast period.

Table IV.5

Forecast of Lottery Revenue Debt Capacity*
With Changing Lottery Revenue
(\$ Million)

	Current Lottery Capacity Projection (From <i>Table IV.2</i>)	10% Decrease in Unobligated Net Lottery Revenue	10% Increase in Unobligated Net Lottery Revenue
Total	\$1,627.9	\$ 1,314.3	\$ 1,996.8
Difference from Base Case		\$(313.6)	\$368.9

V. NET TAX-SUPPORTED DEBT

Net tax-supported debt (NTSD) is defined as all debt serviced by tax revenues of the State. Based on the approach taken by rating agencies, this definition encompasses General Fund-supported debt, as well as all Pension Obligation Bonds and Certificates of Participation that are characterized as self-supporting in Section III.B of this report, all Lottery Revenue bonds and all State Highway revenue bonds. *Exhibit I.2* in the section titled “Bonding in Oregon,” provides a comparison of the State’s total outstanding gross debt, General Fund-supported debt, and net tax-supported debt as of June 30, 2020. The State’s net tax supported debt, as of June 30, 2020, was \$8.39 billion.

Lottery Revenue bonds are included in the calculation of net tax-supported debt even though they are special obligations of the State with debt service for the bonds coming from non-tax resources, that is, discretionary lottery purchases. However, because Lottery Revenue bonds are also secured by a “moral obligation” pledge of the State and a statutory commitment to request appropriated funds for any deficiencies in reserves or inability to pay debt service, these bonds are considered tax-supported and included in rating agency calculations of net tax-supported debt.

Given the importance of Lottery Revenue bonds to the State’s overall capital planning process, Lottery Revenue bond capacity is discussed separately in the previous section of this report.

The definition of net tax-supported debt omits a variety of other self-supporting debt obligations issued by the State that were designed to be self-supporting in all but the most extreme circumstances. General obligation bonds sold on behalf of the Oregon Veterans’ Home Loan Program, the Pollution Control Loan Program, and the Oregon Housing and Community Services Department’s Elderly and Disabled Mortgage Loan Program are examples of this category of self-supporting GO debt. These GO bond programs are expected to fully repay all GO bonds issued on their behalf from the loan revenue streams they receive over time from borrowers, while maintaining adequate loan reserves to cover any temporary shortfalls in loan repayments.

This same type of self-supporting financial structure is built into the Single and Multifamily Housing mortgage revenue bond loan programs and the Infrastructure Finance Authority’s Bond Bank loan program, as well as all conduit revenue bonds sold by the State. While certain revenue and self-supporting GO bond debt programs are included on the State’s gross debt balance sheet, these bond programs have a long history of paying their obligations with non-tax revenue resources and are therefore not included in the calculation of NTSD. While a large economic or natural disaster (e.g., a major seismic event) might temporarily impact loan repayments on some of these self-supporting loan programs (which is the reason that strong loan reserves are needed), it remains reasonable to exclude these programs from the NTSD calculation until such time that a State loan program actually requires the use of the State’s tax resources to repay bonds issued on its behalf.

Table V.1 lists the 2019-21biennium net tax-supported debt authorizations approved by the 2020 Legislature. For purposes of this *2021 Legislative Report*, it is assumed that all authorized net tax-supported debt will be issued during the 2019-21 biennium. GO bonds issued for General Purposes (Article XI-Q); Higher Education facilities and Community College matching grants (Article XI-G); Public School Construction matching grants (Article XI-P); and Seismic Upgrade grants to schools (Article XI-M), along with Lottery Revenue and Highway User Tax Revenue Bonds make up the majority of new tax-supported debt planned for issuance this biennium.

Table V.1

**Net Tax-Supported Debt Authorizations
2019-21 Biennium**

<u>Type & Purpose</u>	<u>Authorized to be Issued in 2019-21</u>
General Obligation Bonds	
Community College Bonds (Article XI-G)	\$ 52,400,000
Higher Education Facility Bonds (Article XI-G)	50,605,000
DEQ – Pollution Control Bonds (Article XI-H)	-
Seismic Upgrade Bonds for Public Schools (Article XI-M)	101,240,000
Seismic Upgrade Bonds for Public Safety Facilities (Article XI-N)	20,270,000
School Construction Bonds (Article XI-P)	126,090,000
DAS General Purpose GO (Article XI-Q)	788,914,223
Total General Obligation Bonds	\$ 1,139,519,223
Direct Revenue Bonds	
Lottery Revenue Bonds	247,075,000
Highway User Tax Revenue Bonds	485,000,000
DAS General Purpose GO (Article XI-Q)	50,135,777
Appropriation Credits	
DAS Financing Agreements (ORS 283 & 286A)	-
Total Net Tax-Supported Debt Authorizations	<u>\$1,921,730,000</u>

Two measures most commonly used by rating agencies and municipal analysts to gauge a state’s overall debt burden include:

- Net Tax-Supported Debt Per Capita, and
- Net Tax-Supported Debt as a Percentage of Personal Income.

Prior to FY 2003, Oregon’s debt burden was well below the 50-state medians as calculated by Moody’s Investors Service. For the past 16 years, however, Oregon’s debt burden per capita has exceeded national averages. The significant increase in Oregon’s debt since FY 2003 was due to the issuance of \$2.1 billion in pension obligation bonds, and the combined growth in Lottery and Highway User Tax revenue bond issuance to fund high priority economic development and transportation projects around the state.

In its *May 2020: Medians - State Debt Declined in 2019, But Likely to Grow in Coming Years* report (which uses calendar year 2019 data), Moody’s determined the average NTSD per capita for the 50 states was \$1,506 and the median was \$1,071.¹ The average NTSD as a percentage of income was reported at 2.6 percent and the median at 2.0 percent. By comparison, Oregon’s NTSD ranked 17th highest nationally in terms of net tax-supported debt outstanding, but 13th highest in terms of net tax-supported debt per capita at \$2,018 and 13th in net tax-supported debt as a percentage of personal income at 3.8 percent.

As *Table V.2* illustrates at the end of FY 2020, net tax-supported debt totaled \$8.39 billion with debt ratios of \$1,966 per capita and 3.52 percent of personal income. Based on the issuance of an

¹Moody’s May 12, 2020 Report: *Medians – State debt declined in 2019, but likely to grow in coming years*

estimated \$1.46 billion of the remaining \$1.71 billion remaining authorized but unissued debt over the 2019-21 biennium and \$561 million scheduled amortization of principal on outstanding bonds, it is projected that the State’s net tax-supported debt will increase to approximately \$9.30 billion by the end of the FY 2021. The planned FY 2021 issuance excludes the \$247 million of authorized Lottery Revenue bonds.

Table V.2

Net Tax-Supported Debt Ratios			
	Fiscal Year Ending June 30th		
	FY 2019 (Actual)	FY 2020 (Actual)	FY 2021 (Projected)
Net Tax-Supported Debt (Billions)	\$ 8.70	\$ 8.39	\$ 9.30
Population*	4,236,400	4,268,055	4,290,100
Personal Income (Billions)*	\$224.3	\$238.3	\$234.5
NTSD Per Capita	\$2,055	\$ 1,966	\$ 2,168
NTSD as a % of Personal Income	3.88%	3.52%	3.97%
<i>Pension Obligation Bonds Excluded</i>			
NTSD Per Capita	\$1,703	\$1.645	\$1,881
NTSD as a % of Personal Income	3.22%	2.95%	3.44%

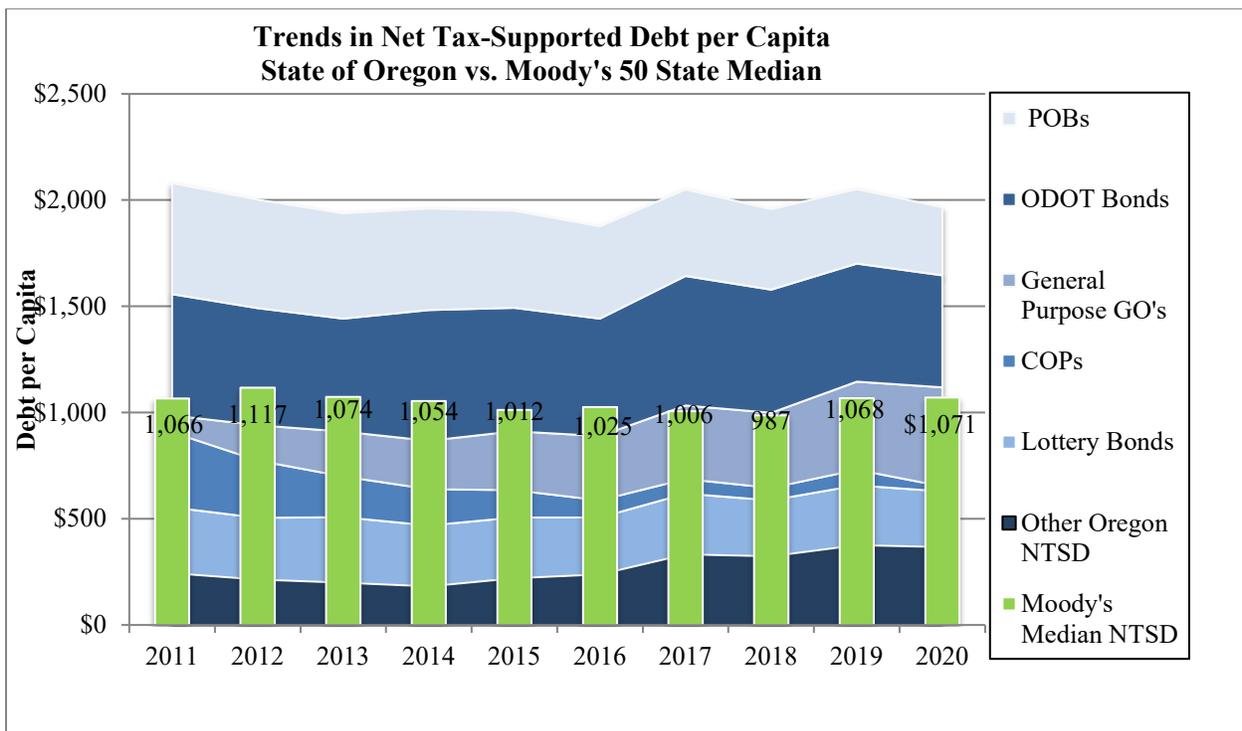
*Source: Oregon Office of Economic Analysis, December 2020 Economic and Revenue Forecast

Rating agencies typically calculate total net tax-supported debt both with and without pension obligation bonds. In this way, they do not penalize states that issue POBs in comparison to other states that may have not issued POBs, yet may still have sizable unfunded pension liabilities. For Oregon, if pension obligation bonds are excluded from the NTSD calculation shown in *Table V.2*, the estimated FY 2021 debt burden is \$1,881 per capita and 3.44 percent of personal income.

Debt Ratio Comparisons

At the time of this report, Oregon’s general obligation debt was rated by Moody’s as Aa1, and AA+ by both Standard & Poor’s and Fitch Investors Service. *Exhibits V.1a & V.1b* compare Oregon’s NTSD ratios over the past decade with the Moody’s median ratios of all 50 states. Prior to FY 2003, Oregon’s debt ratios compared favorably to the national averages, with Oregon generally having lower ratios than states with higher credit ratings. Since that time, the State has issued a substantial amount of new debt to address unfunded pension liabilities, economic development, highway modernization, and public safety needs. As *Exhibit V.1a* below shows, Oregon’s current per capita debt burden has remained above Moody’s national medians due to the aforementioned inclusion of both POBs, Lottery Revenue bonds and Highway User Tax bonds for various Oregon Department of Transportation (ODOT) projects. *Exhibit V.1b* below shows that while Oregon’s NTSD as a percentage of personal was well above the 50-state median in FY 2011 at 5.5 percent, this ratio has dropped dramatically to FY 2020 expected levels of 3.52 percent as personal income levels have increased across the State.

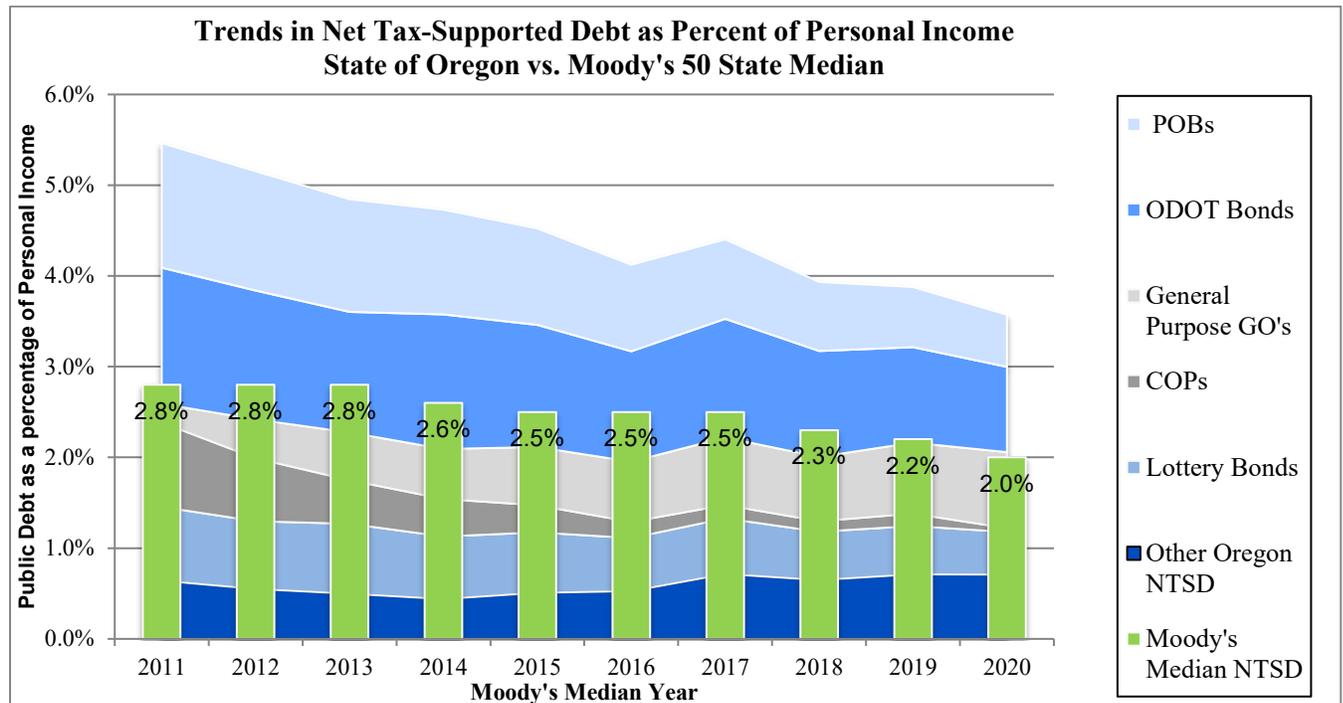
Exhibit V.1a



Source: Moody’s Median Reports, 2011-2020.

¹ Moody’s 2020 State Debt Medians reflect NTSD as of the end of calendar year 2019.

Exhibit V.1b



Source: Moody's Median Reports, 2011-2020

¹ Moody's 2020 State Debt Medians reflect NTSD as of the end of calendar year 2019.

Overall State Long-term Liabilities

Given the growing awareness of unfunded long-term pension liability, the rating agencies have taken a more comprehensive approach to the tracking of overall state long-term liabilities; their reports include both the public indebtedness and the net pension liability of each state as reported in their Comprehensive Annual Financial Reports (CAFRs) as part of their overall 50 state debt ratio analysis. *Exhibit V.2* displays a graph from Standard & Poor's (S&P) most recent pension report, which shows the funded ratio for the pension systems of all fifty states, as reported in their CAFRs for FY 2018. At 82% funded in 2018, Oregon's system ranked 15th highest among states. The most recent PERS actuarial valuation for the calendar year 2019 reports the State's funded ratio at 78%, which remains highly ranked when compared to other states. In 2019, Oregon Investment Commission's PERF investment portfolio mix to a more conservative structure that is comprised of 32.5% Public Equity, 17.5% Private Equity, 20% Fixed Income, 2.5% Risk Parity, 12.5% Real Estate, and 15% Alternative Investments. This strategy has served the PERS system well and for the year to date 2020, PERS investments have returned 5.93% through November 30, 2020 despite a volatile year.

The aforementioned S&P report also compares the combined public debt and unfunded pension and other post-employment liabilities per capita for each state as compared to its gross state product, which provides great insight as to the portion of each state's financial resources are required to manage their overall state long-term liabilities. For FY ending 2019, the State of Oregon's combined net tax supported debt and unfunded pension and OPEB liability was \$3,077 on a per capita basis of 5.98% of personal income, which is well within the range of debt affordability levels.

The following table adds the State’s unfunded liability to net tax supported debt over the last several years.

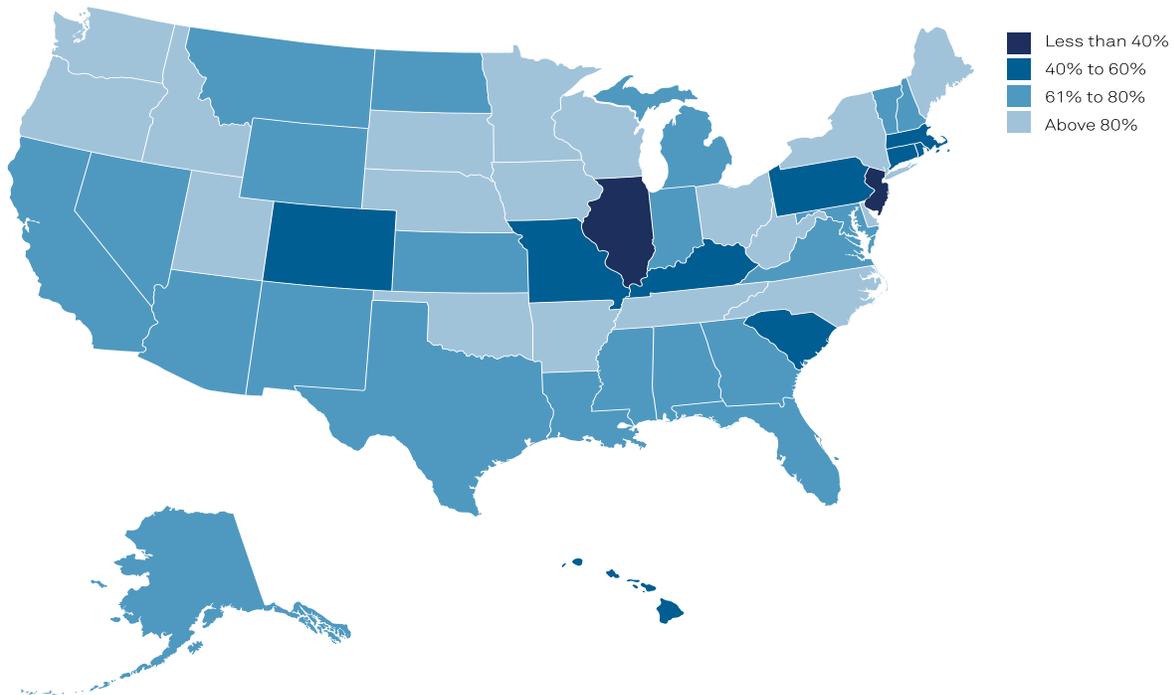
Oregon Balance Sheet Liability Ratios (NTSD and Unfunded Liability)			
\$ billion	FY 2018	FY 2019	FY 2020
Net Tax Supported Debt	\$8.23	\$8.70	\$8.39
State Net Pension & OPEB Liability ¹	4.68	6.26	5.86
Total Balance Liability	\$12.91	\$14.96	\$14.25
Population	4,195,300	4,236,400	4,268,055
Balance Sheet Liability Per Capita	\$3,077	\$3,532	\$3,338
Personal Income	\$215.40	\$224.30	\$238.30
Balance Sheet Liability - Percent of Personal Income	5.99%	6.67%	5.98%
Gross State Product ("GSP")	\$227.04	\$241.98	\$253.62
Balance Sheet Liability - Percent of GSP	5.69%	6.18%	5.62%

¹ Pension data represent the calendar year preceding the close of Fiscal Year

Exhibit V.2 illustrates S&P’s categorization of Oregon as one of the 18 states with pension funded ratios above 80% using fiscal year 2019 data.

Exhibit V.2

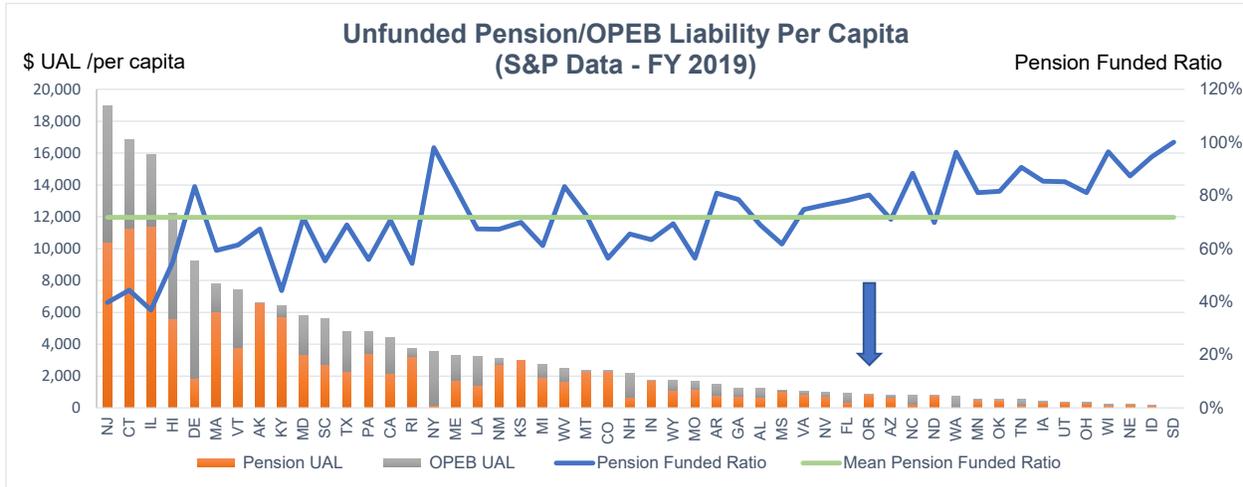
Aggregate U.S. State Pension Funded Ratios 2019



At the time of this report a 2019 state CAFR was unavailable for California and prior year data is depicted. States with plan reporting periods that align with a calendar year-end, we utilized reports ending Dec. 31, 2018. Source: S&P Global Ratings. Copyright © 2020 by Standard & Poor’s Financial Services LLC. All rights reserved.

The following chart illustrates comparative pension and other post-employment benefit (OPEB) obligations for each of the 50 states as reported by S&P in its August 3, 2020 report: *Sudden-Stop Recession Pressures U.S. States' Funding For Pension And Other Retirement Liabilities* using FY 2019 data. As shown below, Oregon has a low per capita unfunded pension (Net Pension Liability – NPL) and unfunded OPEB obligations (Net OPEB Liability – NOL) when compared to many states. Further, it demonstrates that Oregon’s pension funded status is above the mean funding level for all states.

Exhibit V.3 U.U. Sttes’s



Source: S&P Aug 3, 2020: Sudden-Stop Recession Pressures U.S. States’ Funding For Pension and Other Retirement Liabilities.

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VI. NON-TAX-SUPPORTED DEBT

For several of the State’s largest bonding programs, the majority of their bonds do not fall under the definition of either General Fund supported debt or net tax-supported as used in this report. These programs include:

- Veterans’ Welfare General Obligation GO Bonds (Article XI-A);
- Higher Education Building Project GO Bonds (Article XI-F(1));
- OHCS¹D¹ Elderly & Disabled Housing Project GO Bonds (Article XI-1(2));
- OHCS¹D¹ Single-Family & Insured Multi-Family Revenue Bonds (ORS 456.661);
- Pollution Control GO Bonds (Article XI-H) (54% of Total);
- Alternate Energy Project GO Bonds (Article XI-J) (60% of Total);
- Oregon School Bond Guaranty Program (Article XI-K);
- Oregon Infrastructure Authority Bond Bank Revenue Bonds; and
- Conduit or “Pass Through” Revenue Bond Programs.

These programs were designed and intended to be fully self-supporting from enterprise revenues or loan repayments and under normal circumstances are not expected to require a draw on General Fund or special tax revenues. Therefore, it is less meaningful to discuss their capacity in the same terms with which we discuss net tax-supported or General Fund supported debt programs. However, it is understandable that these programs cannot issue debt unconditionally without consequence because, with the exception of conduit revenue bonds, they represent an exposure to the financial resources and reputation of the State. Capacity for these programs is more appropriately judged by reflecting the need for sound management and lending practices, as well as careful consideration of the economic circumstances unique to each program. The Commission proposes that capacity for these programs is more appropriately based on ongoing review of constitutional and statutory limitations, program needs, sound program management practices, and biennial review and approval of debt program issuance rather than a specific dollar limit capacity.

¹ Oregon Housing and Community Services Department.

Table VI.1

Debt Issuance Considerations for Non Tax-Supported Bond Programs

NON TAX-SUPPORTED DEBT PROGRAM	BASED ON:
<p>Veterans’ Welfare General Obligation Bonds <i>Article XI-A</i></p>	<ul style="list-style-type: none"> • Demand for loan program services; • Annual cash flow projections; • Legal limitations (8% of State TCV); • Governor’s budgetary review; • Biennial Legislative Authorization; and • Central debt management review.
<p>Higher Education Building Projects General Obligation Bonds <i>Article XI-F(1)</i></p>	<ul style="list-style-type: none"> • Need for capital building projects; • Revenue producing capacity of desired projects; • Projects are self-supporting without requiring any General Fund revenues to cover debt service; • Legal limitations (0.75% of State TCV); • Governor’s budgetary review; • Biennial Legislative Authorization; and • Central debt management review.
<p>Pollution Control Projects General Obligation Bonds <i>Article XI-H</i></p>	<ul style="list-style-type: none"> • Demand for loan and grant program services; • Wastewater loans to communities are self-supporting without requiring any General Fund revenues to cover debt service; • Bonds used to fund grants for clean-up of orphan sites require General Fund debt service support • Legal limitations (1% of State TCV)
<p>Alternate Energy Project General Obligation Bonds <i>Article XI-J</i></p>	<ul style="list-style-type: none"> • Local community/region energy needs; • Applicant screening; • Technical review; • Legal limitations (0.5% of State TCV); • Governor’s budgetary review; • Biennial Legislative Authorization; and • Central debt management review.
<p>Oregon School Bond Guaranty Program General Obligation Bonds <i>Article XI-K</i></p>	<ul style="list-style-type: none"> • May be triggered if state has to pay district debt service; • State-Aid may be intercepted for debt service payments; • May levy a district-specific or statewide property tax to repay bonds; • State’s full faith in credit; and • Legal Limitation (0.5% of State TCV).

<p style="text-align: center;">Infrastructure Finance Authority Bond Bank Program Revenue Bonds <i>ORS Chapter 285B</i></p>	<ul style="list-style-type: none"> • Municipality water and wastewater system needs; • Municipality infrastructure needs; • Legal limitations (0.5% of State TCV); • Governor’s budgetary review; • Biennial Legislative Authorization; and • Central debt management review.
<p style="text-align: center;">Elderly & Disabled Housing Project General Obligation Bonds <i>Article XI-I(2)</i> and Single-Family & Multi-Family Revenue Bonds <i>ORS 456.661</i></p>	<ul style="list-style-type: none"> • Demand for mortgage program services; • Continued strict applicant screening and eligibility requirements; • Annual cash flow review; • Legal limitations; <ul style="list-style-type: none"> ▪ Elderly & Disabled (0.5% of State TCV) ▪ Single & Multifamily (\$2 billion) • Governor’s budgetary review; • Biennial Legislative Authorization; and • Central debt management review.
<p style="text-align: center;">Conduit Revenue Bond Programs <i>Oregon Facilities Authority Industrial Development Revenue Bonds Housing Development Revenue Bonds Beginning & Expanding Farmer Loan Revenue Bonds</i></p>	<ul style="list-style-type: none"> • Conduit borrower’s ability to pay debt service on intended projects; • Evaluation of market impact of conduit issues on other State issues; • Biennial Legislative Authorization; and • Central debt management review.

A. Veterans' Welfare Bond Program

As noted earlier, the Oregon Department of Veterans' Affairs (ODVA) is authorized to issue bonds to finance mortgage loans to eligible veterans. Although bonds outstanding under this program are fully self-supporting (repaid) from mortgage loan repayments, this was not always the perception by the bond market. In the late 1970s and early 1980s, the ODVA faced considerable difficulties due to the effects of the nationwide recession, aggressive lending practices, and improperly structured bond issues. Revenues from their mortgage portfolio were projected to be insufficient to cover operating expenses, bonded debt service resulting from mortgage prepayments and the increased losses from higher foreclosure rates. During this time, management practices allowed an extraordinary volume of bond issuance, resulting in over \$6 billion outstanding in the ODVA program in 1985. These management practices were, in part, responsible for an eventual State ratings downgrade, leading to increased capital financing costs for the State for many of its bond programs.

Over the last 30 years, the State and ODVA made excellent progress and has transformed the Veterans' loan program into a sound, well-structured self-supporting GO bond program. ODVA did not issue debt between 1987 and 1995, and did not make mortgage loans between 1987 and 1991. The restructured program began lending mortgage monies again in 1992. Current financial strategies of the Department include: exercising bond call options for high cost debt where opportunity exists; close monitoring of administrative expenses; working to achieve the maximum spread between bond borrowing costs and mortgage lending rates permitted under Federal tax law; and structuring new bonds similar to proven single-family mortgage revenue bond programs nationwide.

Requirements for participation in the ODVA Mortgage Loan Program are much more stringent than the early years of the program. Individual applicants and properties must generally meet Federal National Mortgage Association underwriting standards, which include, but are not limited to: adequate income, verification of stable employment, acceptable credit history, and sufficient funds to pay the down-payment and closing costs. A private mortgage insurer must also insure loans that exceed 80% of the value of the underlying security.

ODVA makes annual cash flow forecasts to assess future ability to meet debt service and related operating expenses. Future bond issuance will be based primarily on demand for program loans when ODVA loan rates can be provided below the prevailing commercial market rate.

B. Higher Education Building Project Bond Program

Historically, the former Oregon University System (OUS) administered bonds issued for Oregon's seven public four-year universities and the Oregon Health and Science University (OHSU). The Board of Higher Education had the authority to issue GO bonds for higher education projects based on two constitutional provisions, Article XI-F (1) and Article XI-G. The OUS and the Board of Higher Education were abolished on July 1, 2015.

Under Oregon law, each of the seven universities are "public universities" as defined by ORS 352.002 and are legally separate from the State of Oregon. Article XI-F (1) and XI-G bonds issued for the benefit of public universities are administered by the Department of Administrative Services and governed by ORS 286A.830 through 286A.863. The Higher Education Coordinating Commission (HECC) is responsible for coordinating capital project funding requests from public universities and for budgeting and accounting related to outstanding bonds. Although HECC also

accounts for debt pertaining to OHSU, the HECC has no administrative or policy oversight over OHSU since OHSU is an independent public corporation.

Under this statutory framework, the proceeds from Article XI-G bonds authorized by the Legislature for public university projects are provided as grants to the applicable university. The debt service on Article XI-G bonds is paid by General Fund appropriation; therefore, debt issued under Article XI-G is considered tax-supported debt for purposes of this report and is accounted for in the General Fund debt capacity model and net tax-supported debt ratio calculations.

In contrast, the proceeds from Article XI-F (1) bonds authorized by the Legislature for public university projects are provided as loans to the applicable university. The loans are required to be repaid by the universities from their own revenue sources, which may include tuition, student building fees, gifts, grants, endowment earnings or other similar sources. Payments from universities on outstanding XI-F (1) bonds are used by the State to pay debt service on the bonds. Thus, Article XI-F (1) bonds are not considered tax-supported debt.

Although each public university has the authority to issue its own revenue bonds, these bonds are not accounted for as debt by the State because this debt would be a legal obligation of the applicable university. To the extent the public universities want to avail themselves of future Article XI-F (1) GO bonds, State law requires that the Office of the State Treasurer (OST) review and approve any future standalone university revenue bonds to assure that the pledged revenues of the university are sufficient to cover debt service on both existing State GO bonds as well as any new university revenue bonds. To the extent that a university board does not wish to seek the review and approval of the OST prior to the sale of their revenue bonds, they are precluded from seeking new Article XI-F (1) GO bond financed projects. To date, OST has reviewed and approved multiple series of revenue bonds issued under this authority by the University of Oregon and Oregon State University.

When new loans are provided to universities with XI-F (1) bond proceeds, each university represents to the State that it conservatively estimates that it has and will have sufficient revenues to pay the loan repayments in full when due and to operate the project financed with the proceeds of the loan. However, since XI-F (1) bonds are general obligations of the State, it would be necessary for the State to seek a General Fund appropriation if the universities were ever unable to make required payments to the State. To assure that the General Fund is never actually required to repay XI-F (1) bonds, the OST has the responsibility of working with each university to identify revenues available at each university to pay debt service on existing and future XI-F (1) bonds. Each campus' future ability to repay additional loans from the State provided through the issuance of XI-F (1) bonds will be dependent upon its governing board's adoption of sound financial management policies and practices and the revenue-producing ability of the projects financed. Given the impacts of the COVID-19 pandemic on university revenues, all Article XI-F (1) bond authority for the 2019-21 biennium was removed during the 2020 Second Special Session.

C. Housing & Community Services Department Bond Programs

The Oregon Housing and Community Services Department (OHCSA) is authorized to issue GO bonds for the Elderly and Disabled Housing program, direct revenue bonds for Single-Family and Multifamily housing mortgage programs, and pass-through revenue bonds for its Multifamily Conduit revenue program. None of these programs fall under the definition of net tax-supported debt used in this report. Thus, program capacity is discussed separately from assumptions made in the General Fund capacity model.

Like other self-supporting bonding programs, capacity for OHCSO programs is based primarily on the fiscal soundness of these programs and prudent financial management. The Director and the nine members of the Oregon Housing Stability Council are appointed by the Governor. The Oregon Housing Stability Council, in collaboration with the Department and community partners, the Council will assist with the development of the Department's strategic plan, and set policies and priorities to increase the supply of affordable housing throughout the state and to enhance the funding for and focus the provision of community services.

Applicants proposing to borrow monies under any of OHCSO's housing loan programs must first meet the eligibility requirements of that particular program. Applicants then follow an application review and approval process prior to receiving any loan monies associated with the program.

As noted earlier, bonds issued by OHCSO are fully self-supporting. Debt service is paid solely from revenues received from mortgage loan repayments, investment earning, and other assets held under each specific Trust Indenture. In order to assure that these assets are sufficient to fund necessary debt service requirements, OHCSO is required to submit materials outlining projected revenues annually to OST. These projections must outline the ability to repay principal and interest over the life of outstanding bonds, as well as other expenses of OHCSO. If projected revenues show an inability to provide for these requirements, OHCSO would be precluded from issuing additional bonds or applying any revenues to the financing of additional mortgage loans.

Similar to other programs outlined here, OHCSO's capacity to issue bonds is based on sound management, prudent lending practices, maintenance of strong operation reserves for program continuance, and awareness of evolving economic and social factors affecting individual borrowers' ability to repay mortgage loans. OHCSO, more than other state agencies, has used sophisticated public finance tools like variable rate bonds backed with liquidity facilities and floating-to-fixed interest rate swaps in order to offer more competitive mortgage rates to its customers while reducing its bond portfolio's interest rate risk.

D. Alternate Energy Program Bonds

The Oregon Department of Energy (ODOE) is authorized to issue GO bonds for the Alternative Energy Project in accordance with the provisions of Article XI-J to finance secured loans for the development of small-scale local energy projects (SELP) throughout Oregon. ODOE may have bonds outstanding equal to one-half of one percent of the true cash value of the property of the State. SELP was originally designed to be fully self-supporting requiring prior determination and identification of repayment sources prior to making loans from bond proceeds. Constitutional and statutory provisions mandate that loan repayments are made from secured loan sources before any General Funds are advanced to SELP for repayment of Article XI-J debt.

Debt service on Alternate Energy Program GO bonds is paid from revenues received from loan repayments. Prior to each bond sale, ODOE is required to submit materials outlining projected revenues and expenses to the OST. The projections provided must show the program's future capability of meeting all planned and outstanding bond payments through program resources. ODOE's capacity to issue these bonds must be based on sound program and departmental management, prudent lending practices, maintenance of appropriate loan loss reserves, and awareness of underlying borrowers' ability to repay loans.

Currently, a portion of ODOE's Alternate Energy Bonds are considered as General Fund-supported debt, as XI-J GO bonds were sold to fund loans for energy projects on various OUS campuses that are being repaid through annual General Fund appropriations to the State's newly

independent universities. For FY 2019, these General Fund appropriations represent approximately 40% of ODOE’s overall GO debt service payments for this fiscal year.

In preparation for an ODOE bond sale in 2012, the State Treasurer’s staff reviewed SELP’s cash flow model to determine if their projected loan repayments were sufficient to meet all future debt service requirements of their GO bond portfolio. This evaluation revealed that SELP’s loan loss reserves were seriously depleted, due to the default of an \$18 million loan on an ethanol facility, and a growing number of large, delinquent loans to private parties that were 91 days or more past due. Since that time, several other large loans linked to renewable energy projects have also gone into default and have been written off as non-collectible, further deteriorating SELP’s balance sheet and reserve balances, which have sharply reduced the program’s ability to make new loans without additional financial support from State general fund resources.

To address these problems, ODOE’s management has tightened loan underwriting standards and pursued delinquent borrowers. In addition, the State Treasury refunded and restructured a portion of the outstanding ODOE bond portfolio in 2017, lowering ODOE’s debt service payments substantially. Even with these efforts, General Fund cash infusions will be required starting in FY 2020 to supplement SELP loan repayments. Approximately \$4.4 million will be needed in the 2019-21 biennium, in order for the SELP program to meet its scheduled debt service obligations. The overall amount of General Fund assistance needed over time is projected to total approximately \$5.5 million, although the amount, timing, and size of future cash infusions will change if more SELP loans become delinquent or are written off as uncollectible.

E. Department of Environmental Quality Pollution Control Bonds

The Department of Environmental Quality manages two separate programs under this bond category—loans to local Oregon communities to address their wastewater infrastructure needs and grants for the clean-up of environmentally contaminated sites where neither existing nor previous owners can fund this work (i.e. “orphan sites”).

GO bonds issued for these purposes are authorized under Article XI-H of the State Constitution, for purposes of financing pollution abatement and control facilities, as well as pollution control and disposal activities of State and local government agencies. This authorization, granted under Article XI-H, requires that most facilities funded by the program, with the exception of pollution control and disposal activities and hazardous substance facilities, must “conservatively appear” to be at least 70% self-supporting and self-liquidating from revenues, gifts, federal grants, user charges, assessments and other fees.¹ Historically, the portion of the debt service of these bonds associated with orphan hazardous disposal site clean-up has been repaid by General Fund appropriation, with the balance of debt service repaid by DEQ fees and repayment on loans.

¹ In accordance with Article XI-H Section 2, the facilities supported by the Pollution Control Bonds must be 70% self-supporting and self-liquidating. However, the bonds that provide the funds to support the facilities are currently non-self-supporting, requiring debt service payments to be provided by General Fund appropriations.

F. Oregon Business Development Department Oregon Bond Bank Program

The Oregon Business Development Department (OBDD) administers the Oregon Bond Bank, a pooled loan program providing municipal bond financing to eligible municipal borrowers. The Oregon Bond Bank was created by the consolidation of the Water Program, which authorizes loans to municipalities to finance safe drinking water projects and waste water system improvement projects, and the Special Public Works Fund program, which provides loans to municipalities for construction, improvement and repair of water, wastewater, and other local infrastructure. Periodically, the Legislative Assembly authorizes the sale of Lottery Revenue Bonds to replenish the funds available to OBDD to make new loans for local and regional water, wastewater and other infrastructure projects. Additionally, the Oregon Bond Bank may issue stand-alone revenue bonds secured by these loans, to free up OBDD funds that can then be loaned again to municipalities for additional local infrastructure projects.

In 2011, the Legislative Assembly authorized further consolidation of various OBDD loans, grants and bonding programs for local governments through the creation of the Oregon Infrastructure Finance Authority (IFA). The IFA was established as an administrative unit within OBDD, with a nine-member advisory board that provides policy guidance on the infrastructure loan, grant, and bonding activities of the agency.

Infrastructure loans made through IFA are typically full faith and credit obligations of the borrowing municipality, payable from the borrower's utility enterprise as well as the municipality's General Fund. OBDD may request the State to withhold any amounts otherwise due to the municipality from the State of Oregon, and to pay such amounts to OBDD, in the event that a municipality defaults on its loan payments.

IFA Oregon Bond Bank Revenue bond capacity is based on OBDD's sound financial management, prudent lending practices, awareness of underlying borrowers' ability to repay loans and any funds provided by the Legislative Assembly as part of their historical practice of providing program capital.

G. Department of Transportation Highway User Tax Revenue Bond Program

The Oregon Department of Transportation (ODOT) is authorized to issue Highway User Tax Revenue (HUTR) bonds pursuant to ORS 367.609 through ORS 367.665 for the purpose of building and maintaining permanent public roads. Subject to Article IX Section 3a of the Oregon Constitution, ODOT may use bond proceeds issued herein to finance the cost of state highway, county road and city street projects. Bonds issued under the HUTR program are payable solely through ODOT's "Pledged Revenues" which consist primarily of motor fuels taxes, DMV fees, and weight-mile taxes and may include other fees and taxes such as those generated through the Oregon GO program.

The Legislature has authorized the issuance of HUTR bonds to finance transportation projects under three major transportation program initiatives: the Oregon Transportation Investment Act (OTIA), the Jobs and Transportation Act (JTA) and Keep Oregon Moving (KOM). All bonds issued under the OTIA and JTA programs have been issued, totaling an investment of nearly \$2 billion into Oregon's transportation system. The State has so far issued \$240 million of the KOM bonds, with the final \$240 million to be issued in the next several years as the KOM projects move

into construction. There remains an annual allocation of \$30 million to ODOT to finance the I-5 Rose Quarter project under the KOM legislation, however those bonds have yet to be issued.

H. Conduit Revenue Bond Programs

The State of Oregon has three actively operating conduit revenue bond programs. These programs operate under the auspices of the Oregon Facilities Authority, the Oregon Business Development Department and the Oregon Housing and Community Services Department.

Conduit revenue programs are viewed uniquely when discussing capacity concepts. These programs, although issued by the OST, constitute no draw or contingent liability on any State of Oregon revenues. Debt service on these bonds is paid solely from revenues generated by the projects being financed or from other sources available to the conduit borrower. In no case is the credit of the State loaned or used for payment of any of the bonds. Further, the State is not responsible for expenses or costs incurred in connection with the issuance of the bonds. Therefore, capacity judgments should be reflected more in terms of market impact, beneficial interests of the State and prudent evaluation of participating conduit borrowers' ability to repay debt obligations.

I. Oregon School Bond Guaranty Program

The Oregon Legislature passed the School Bond Guaranty Act in 1997, with subsequent approval by voters via a constitutional amendment the following year that allows the State to guarantee voter-approved GO bonds of qualifying Oregon education districts. Participation in the program is voluntary and is open to public school districts, education service districts, and community college districts.

The Oregon School Bond Guaranty (OSBG) program is administered by OST, which establishes administrative rules prescribing application procedures and qualification guidelines. Upon determination of a district's eligibility, OST issues a certificate of qualification valid for one year from the date of issuance, which may be applied to all GO bonds issued by the district during that period. Prior to bond closing and contingent on complying with OSBG requirements, the district receives a confirmation letter for the specific bond sale.

J. Constitutional, Statutory, and Administrative Framework

The Constitutional and statutory framework for the OSBG program provides several strong credit enhancement features that have resulted in the program receiving the same credit rating as the State receives on its GO bonds. These features include:

- A pledge of the State's full faith and credit to guarantee payment of a qualified district/community college's bond debt service when due;
- Authorization of OST to make debt service payments from the Oregon Common School Fund, the Oregon Short-term Fund, or other State funds assures immediate liquidity for all guaranteed school district and community college debt service payments;
- Constitutional provision authorizing OST to issue property tax-backed State GO bonds to fund the State's guaranty, if necessary; and
- Authorization of OST to assure repayment of any draws on state funds to make school district GO debt service payments, including:
 - use of the state school funds intercept mechanism; or

- legal compulsion of a district or community college to levy sufficient property taxes to repay any loan made; or
- State GO bond sold, on its behalf.

A participating district, for which the State has made a guaranteed payment, is obligated to repay the State, with interest, and in certain instances, may be subject to an additional penalty. The range of State school funds that can be intercepted for repayment include any payments from the State's General Fund, the State School Fund, income from the Common School Fund, or any other operating funds provided by the State to the school district.

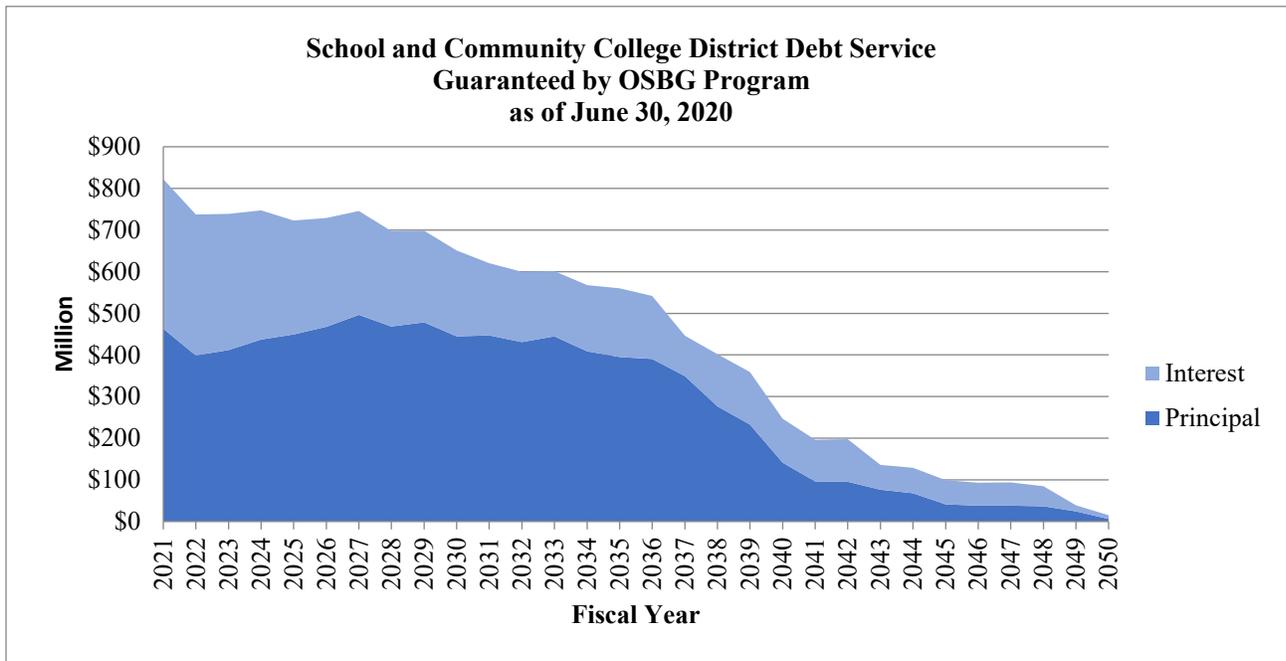
In addition, the administrative aspects of the OSBG program have been designed to reduce the likelihood of payment default by participating educational districts. The district's business administrator is required to transfer to its paying agent funds sufficient to cover each debt service payment at least 15 days before the scheduled payment date on OSBG guaranteed bonds. If it is unable to do so, the district must notify both the paying agent and OST at that time. The paying agent must notify OST if sufficient funds are not transferred at least 10 days before the scheduled payment date.

Program Statistics

Since its inception in 1999, the OSBG program has grown significantly in size and scope; as of June 30, 2020, the program has guarantees on \$7.8 billion of outstanding GO bonds (\$12.2 billion in principal and interest guaranteed debt service) issued by Oregon school districts and community colleges. While it is impossible to know precisely how much the State guaranty has saved Oregon taxpayers in interest costs on school bonds, a conservative estimate of an average reduction of .25% (25 basis points) in borrowing costs suggests debt service savings of roughly \$20.3 million per year, or \$405.2 million over a twenty-year period.

Exhibit VI.1 projects State-guaranteed principal and interest over the remaining life of these school bonds. For FY 2021, this guaranty applies to local school district and community college annual debt service payments of \$822.4 million, which is equivalent to approximately 6.39% of total State General Fund revenues for the fiscal year and 17.6% of overall State school aid for schools and community colleges.

Exhibit VI.1



K. State Guarantee of School District and Community College Pension Bonds

In 2001, the Legislative Assembly authorized the State Department of Education to enter into Fund Diversion Agreements as a means of improving the creditworthiness of Pension Obligation Bonds (POBs) issued by Oregon school districts and community colleges. POBs were initially issued from 2002 to 2007 by many local Oregon jurisdictions with this Fund Diversion provision to prepay their accrued unfunded pension liabilities in the Oregon’s Public Employees Retirement System (OPERS). Under these Fund Diversion Agreements, the State Board of Education agreed to make POB debt service payments to a POB bond trustee out of the annual state aid grants made to participating districts.

Since 2002, there have been nine separate pooled POB borrowings issued by the Oregon School Board Association and community colleges totaling \$3.16 billion that have used this Fund Diversion Agreement approach to guarantee repayment of the POBs. While most of these pooled POBs were sold as non-callable taxable bonds, a few pooled POBs did have call features on certain maturities, which allowed for their refunding at lower interest rates over the last few years.

Exhibit VI.2 shows the substantial growth in the amount of state school aid that has been diverted each year to pay district POB debt service since FY 2010. The Commission estimates that the State diverted \$326.8 million in state school aid for this purpose in FY 2020, or 7.3% of combined annual state aid for school districts and community colleges.

Exhibit VI.2

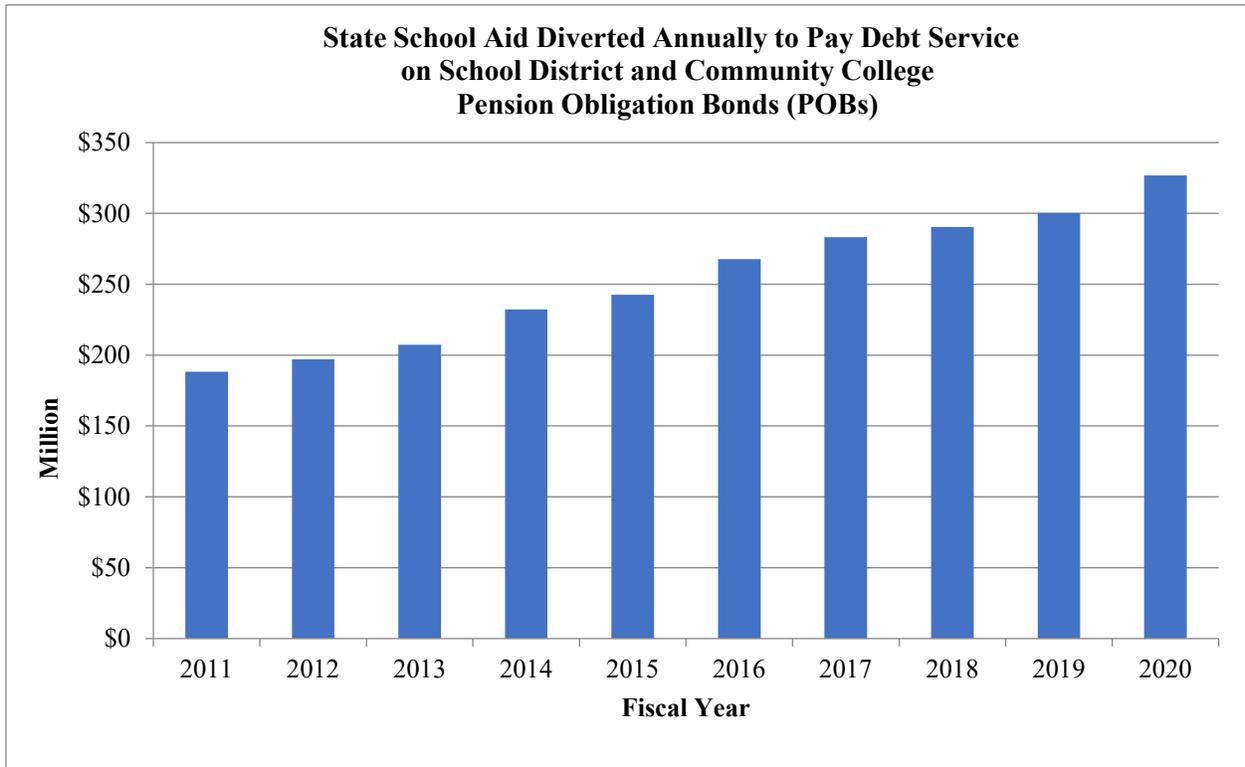
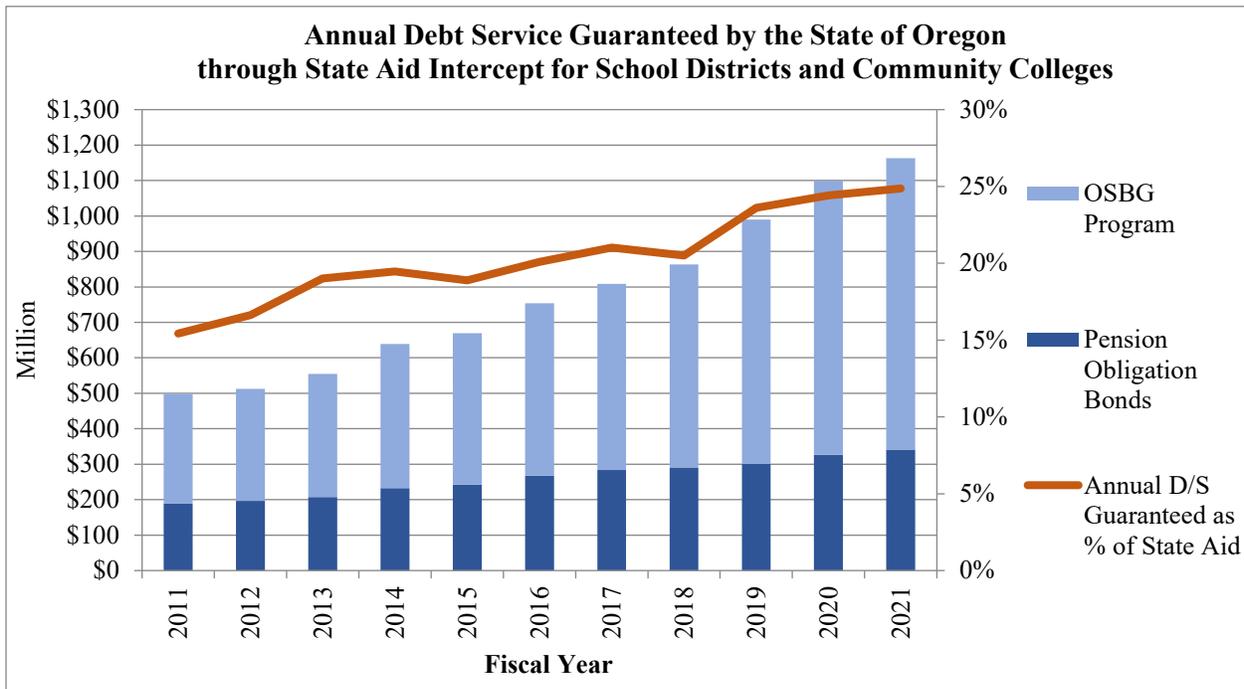


Exhibit VI.3 displays the steady growth in the State’s combined annual guaranteed debt service for both the OSBG and the POB fund diversion programs. As the next chart shows, these state aid intercept bonding programs are relying on a significant percentage of state aid to schools. The Commission projects that the combined annual debt service guaranteed by the State for school district and community college GO and pension bonds in FY 20210 represents over 24.9% of state school aid, an all-time high for the combined programs.

To address concerns over the growing levels of POB guaranteed debt of Oregon’s school districts, as well as the use of POBs by other local jurisdictions to fund their OPERS unfunded liability, the 2019 Legislature passed SB 1049, which now requires all Oregon issuers to develop and report more detailed information to the Municipal Debt Advisory Commission (MDAC) on these types of bond transactions in the future. SB 1049 requires jurisdictions to generate and file a statistically based analysis of the likely earnings over time on any POB bond proceeds deposited with OPERS as compared to the likely borrowing rate on these bonds. Once issued, Oregon Treasury staff will track the actual earnings on these bond proceeds versus the amount estimated, and compare them to the actual bond rate achieved, with the resulting information incorporated into the annual SDPAC report.

Since the passage of SB 1049 in June 2019, there have been no new issuances of POBs by any Oregon jurisdiction.

Exhibit VI.3



To date, no participating Oregon school district or community college has requested that the State of Oregon make a debt service payment on its behalf under the OSBG program. While OSBG guarantees are a contingent liability of the State, this long track record of positive district financial management has meant that to date the rating agencies do not consider this debt as part of the State’s overall General Fund or net tax-supported debt.

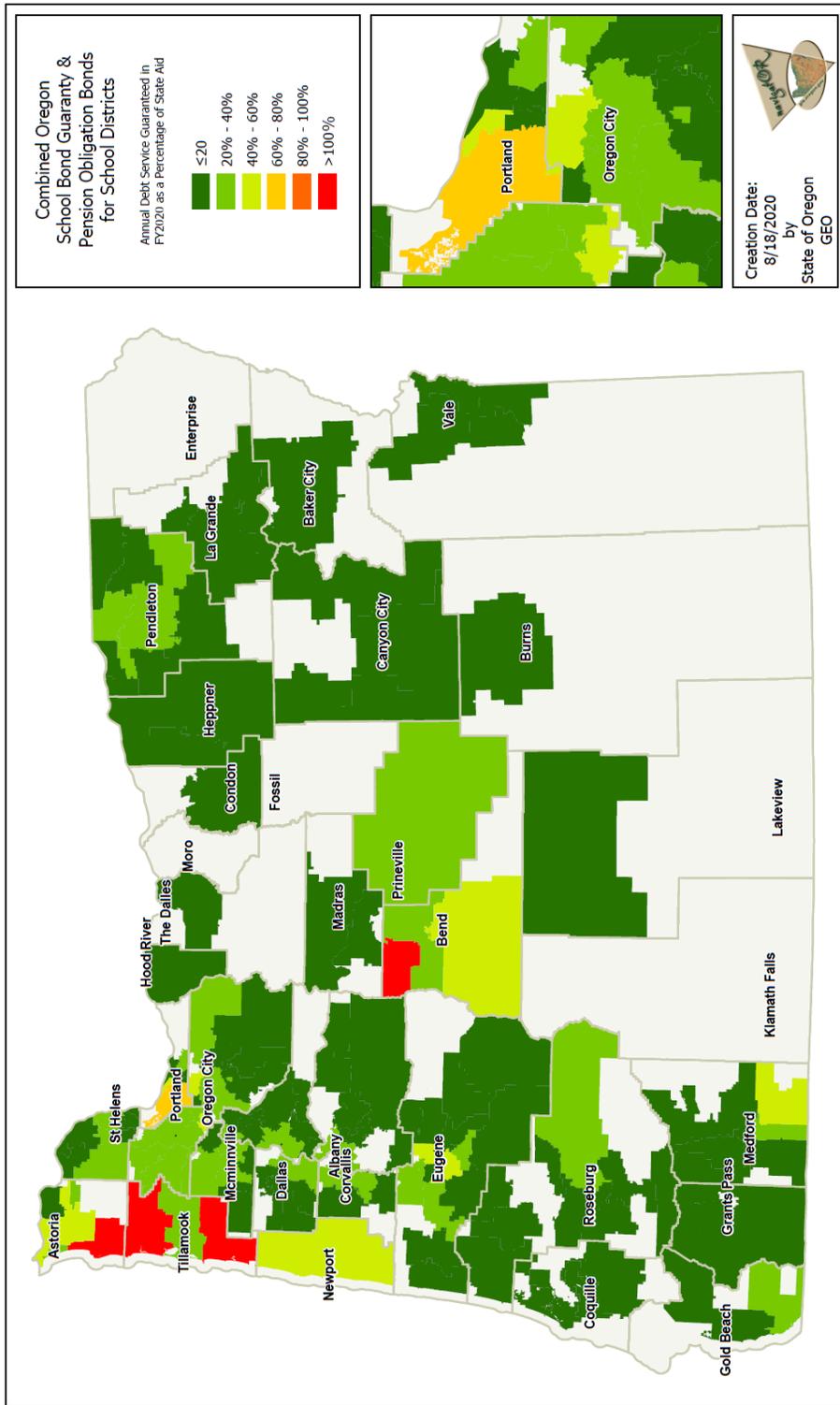
While the OSBG program successfully lowered the borrowing costs of participating jurisdictions throughout the State, OST has spent the past few years analyzing this program due to the increasing levels of annual state guaranteed debt overall, as well as the unusually high amounts of guaranteed debt noted for a few jurisdictions along the Oregon coast. Based on this review, OST has tightened the OSBG program rules to ensure the state guarantee of school debt is managed wisely.

Exhibits VI.4 and VI.5 illustrate each Oregon school district and community college district’s respective state guaranteed debt service as a percentage of overall state aid for the fiscal year ending June 30, 2020. State aid is defined for purposes of the following exhibits to include annual appropriations made to school and community college districts through both the State School Fund and the Common School Fund.

As the exhibits demonstrate, there were four school districts which had a combined annual debt service on State guaranteed GO and POBs that exceeded the amount of annual State school aid they received in FY 2019. For additional detail on the state aid and the amount of debt service guaranteed for specific districts in FY 2020, please see Appendix A, Tables A-9, A-10, and A-11 of this report.

Exhibit VI.4

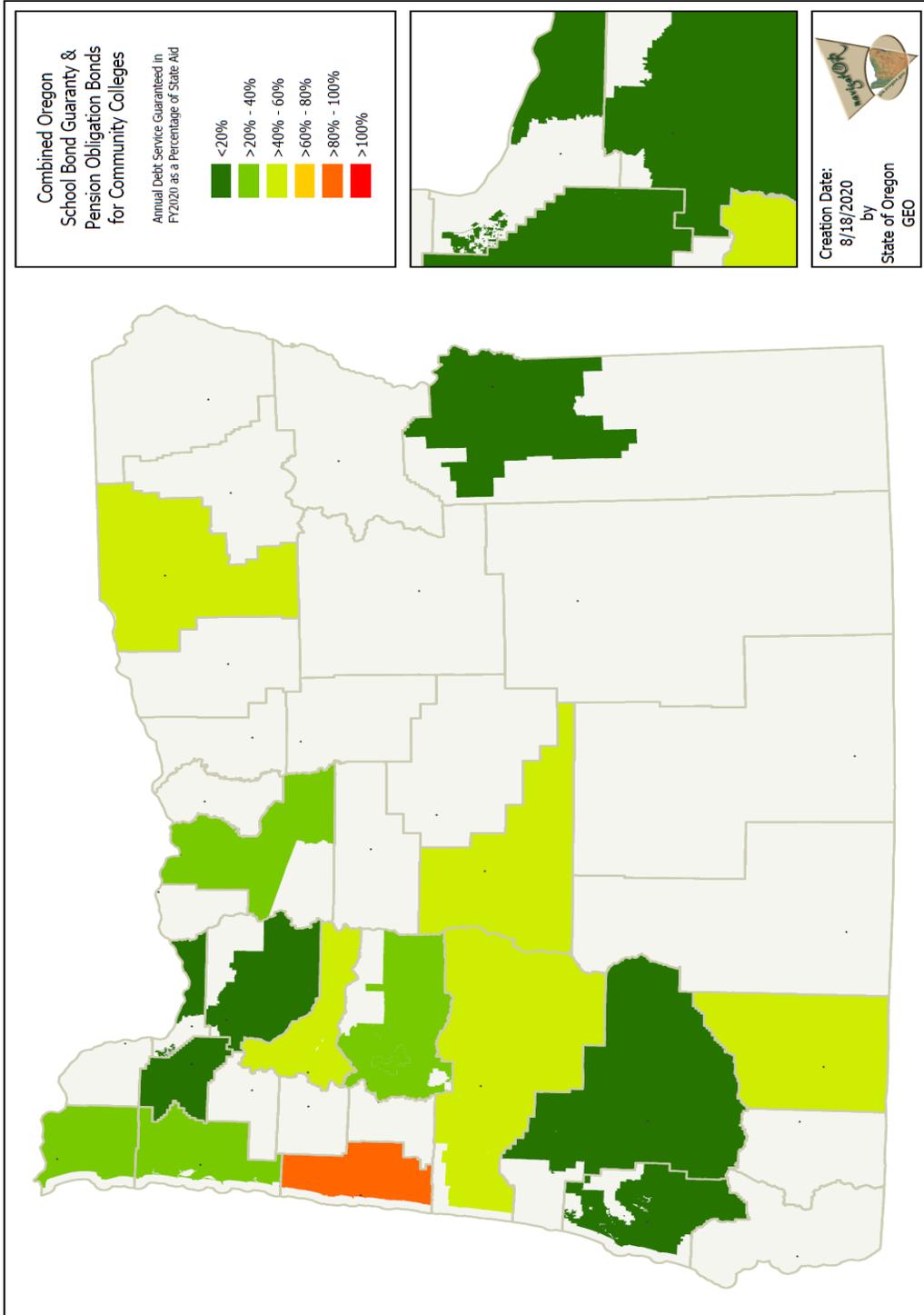
Combined Oregon School Bond Guaranty & Pension Obligation Bonds for School Districts



Map developed by Oregon Geospatial Enterprise Office (gis.oregon.gov)

Exhibit VI.5

Combined Oregon School Bond Guaranty & Pension Obligation Bonds for Community Colleges



Map developed by Oregon Geospatial Enterprise Office (gis.oregon)

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APPENDIX A

Supporting Tables and Graphs

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Table A-1

State of Oregon Bonding and Appropriation Credit Programs

Classification of Debt for Capacity and Debt Burden Determinations

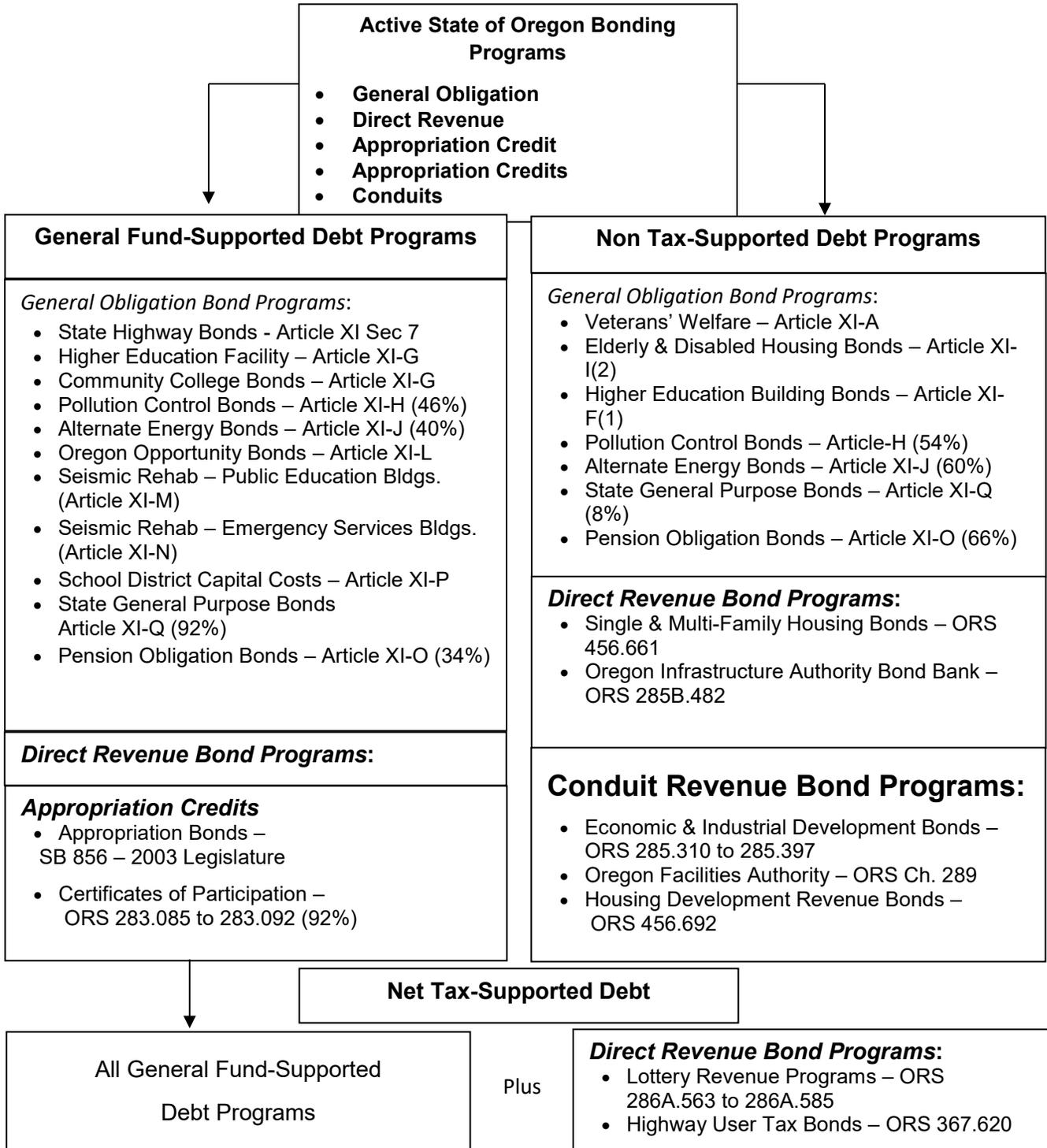


Table A-2
Net Tax-Supported Debt Authorizations for 2019-2021 Biennium

Net Tax-Supported Debt Programs	2019-2021 Biennium Authorization	FY 2020 Actual Issuance	FY 2021 Planned Issuance	Remaining Authorization
Community College Bonds Article XI-G	\$ 52,400,000	\$ 0	\$ 52,400,000	0
Dept. of Higher Education Facility Bonds (Article XI-G)	50,605,000	0	50,605,000	0
DEQ – Pollution Control Bonds (Article XI-H)	0	0	0	0
Seismic Rehab – Public Education Buildings (Article XI-M)	101,240,000	38,710,000	62,530,000	0
Seismic Rehab – Emergency Services Buildings (Article XI-N)	20,270,000	0	20,270,000	0
Dept. of Education – School Construction Bonds (Article XI-P)	126,090,000	0	126,090,000	0
State General Purpose Bonds Article XI-Q ¹	839,050,000	171,500,000 ²	667,550,000	0
Lottery Revenue Bonds ORS 286.563-585 ³	247,075,000	0	0	247,075,000
Highway User Tax Bonds ORS 376.620	485,000,000	0	485,000,000	0
Dept. of Transportation – State Highway Bonds (Article XI (sect7))	0	0	0	0
Certificate of Participation Bonds ORS 283.025-092	0	0	0	0
Total Net Tax-Supported Debt Authorizations	\$ 1,921,730,000	\$ 210,210,000	\$ 1,464,445,000	\$ 247,075,000

4

¹ Includes \$50 million DAS XI-Q GO bond supported by Direct Revenues

² Includes \$11.1 million of DAS XI-Q bonds issued that are supported by direct revenues

³ The Commission does not expect that any of the authorized Lottery Revenue bonds will be issued in the FY 2019-21 biennium due to lower than expected Lottery Revenue below forecast levels.

Table A-3 General Fund Debt Service by year (as of 6-30-2020)

Fiscal Year (ending June 30th)	DAS COP (ORS 283 & 286A) (100% GF Paid)	ODOT State Hwy XI Sec 7 (100%)	Dept. of Ed. CCWD (XI-G) (100%)	DAS Dept. of HiEd. Facility (XI-G) (100%)	DEQ Pollution Control XI-H (46% GF Paid)	DOE Alternate Energy (XI-J) (40% GF Paid)	DAS Oregon Opportunity (OHSU) (XI-L) (100%)	DAS Seismic Public Ed. Bldgs. (XI-M) (100%)	DAS Seismic - Emergenc y Services Bldgs. (XI-N) (100%)	DAS Pension Obligation (XI-O) (34% GF Paid)	DAS School Cap. Cost (XI-P) (100%)	DAS General Purpose (XI-Q) (92% GF Paid)	Total General Fund Paid Debt Service
2021	8,979,750	2,047,600	15,167,013	59,866,901	905,657	8,695,015	15,437,250	23,398,565	4,757,555	73,565,865	15,227,450	220,452,754	448,501,375
2022	8,979,798	2,049,200	16,279,744	57,763,716	604,343	6,693,356	15,437,125	23,405,616	4,760,307	76,693,100	15,226,075	198,528,941	426,421,322
2023	7,813,004	2,049,600	16,421,906	57,709,132	601,249	5,519,163	15,432,250	23,411,688	4,757,304	79,951,917	15,216,425	193,014,236	421,897,874
2024	7,353,358	2,048,800	16,472,956	57,575,511	608,428	5,678,441	8,041,125	23,400,574	4,764,556	83,349,474	15,220,425	179,435,085	403,948,734
2025	7,297,181	2,046,800	16,465,581	57,654,832	475,071	5,013,790	-	23,399,223	4,762,244	86,892,882	15,213,900	162,995,909	382,217,414
2026	7,297,669	2,049,125	16,494,281	57,123,168	475,681	5,027,417	-	23,397,001	4,763,768	90,585,877	15,208,250	157,976,413	380,398,651
2027	7,294,818	2,045,375	16,470,031	57,066,194	475,893	4,587,093	-	23,399,577	4,764,862	94,434,803	15,203,875	145,639,434	371,381,955
2028	7,296,095	2,049,375	16,534,381	55,459,300	475,719	4,486,522	-	23,395,476	4,764,677	-	15,198,625	134,073,667	263,733,838
2029	7,297,764	2,046,000	16,066,281	52,196,763	336,548	4,287,519	-	23,399,550	4,769,874	-	15,201,500	131,397,958	256,999,757
2030	7,298,212	2,050,125	15,759,806	50,183,838	338,935	3,432,797	-	23,400,071	4,758,473	-	15,201,000	125,117,905	247,541,162
2031	7,297,685	2,046,625	15,839,006	48,591,250	336,335	2,846,197	-	23,400,261	4,760,797	-	15,196,250	116,148,441	236,462,849
2032	7,295,468	2,045,500	15,923,931	47,050,628	337,950	1,897,557	-	23,403,540	4,756,018	-	15,196,000	109,124,109	227,030,700
2033	7,293,485	2,046,500	16,017,931	43,733,551	339,088	806,505	-	23,401,895	4,763,958	-	15,184,125	104,967,236	218,554,274
2034	7,293,930	2,049,375	16,122,941	43,856,752	337,482	561,805	-	23,409,818	4,758,960	-	15,184,375	98,182,601	211,758,038
2035	7,293,551	2,049,000	12,916,553	41,584,170	337,733	-	-	23,399,705	4,755,117	-	15,184,875	90,849,680	198,370,385
2036	7,293,807	2,050,250	13,033,094	41,641,633	339,750	-	-	22,008,380	3,462,944	-	15,174,500	72,312,799	177,317,157
2037	7,294,011	2,048,000	10,597,659	38,532,097	338,932	-	-	18,547,325	3,259,750	-	15,176,500	61,797,349	157,591,624
2038	7,293,752	2,047,125	10,604,769	38,140,125	337,614	-	-	9,520,750	1,288,750	-	6,857,500	51,624,301	127,714,685
2039	7,297,620	2,047,375	8,726,375	36,833,625	158,637	-	-	7,796,750	603,750	-	6,856,500	47,030,944	117,351,575
2040	-	2,048,500	8,719,375	33,880,000	-	-	-	3,097,500	-	-	-	26,498,719	74,244,094
2041	-	2,050,250	1,631,250	30,553,125	-	-	-	-	-	-	-	20,840,001	55,074,626
2042	-	2,047,500	1,627,500	26,353,000	-	-	-	-	-	-	-	19,479,643	49,507,643
2043	-	2,050,000	1,634,875	16,942,000	-	-	-	-	-	-	-	13,852,877	34,479,752
2044	-	-	0	6,125,875	-	-	-	-	-	-	-	12,353,277	18,479,152
2045	-	-	0	6,124,375	-	-	-	-	-	-	-	1,225,900	7,350,275
Totals	142,560,959	47,108,000	295,527,241	1,062,541,558	8,161,046	59,533,177	54,347,750	411,993,267	80,033,665	585,473,919	272,128,150	2,494,920,178	5,514,328,910

Table A-4

General Fund Supported Debt Debt Service by Year (as of June 30, 2020) \$'000s			
Fiscal Year	Principal	Interest	Debt Service
2020-2021	273,094,869	167,868,283	\$440,963,151
2021-2022	262,444,428	156,296,188	\$418,740,617
2022-2023	270,962,811	144,358,726	\$415,321,536
2023-2024	265,458,472	132,273,715	\$397,732,186
2024-2025	254,901,839	120,804,798	\$375,706,637
2025-2026	264,347,278	109,480,015	\$373,827,293
2026-2027	266,925,373	97,551,881	\$364,477,254
2027-2028	172,479,468	85,175,807	\$257,655,275
2028-2029	172,621,044	78,280,895	\$250,901,939
2029-2030	170,158,299	71,255,648	\$241,413,947
2030-2031	165,844,418	64,286,789	\$230,131,207
2031-2032	163,374,042	57,292,382	\$220,666,425
2032-2033	162,015,783	50,153,383	\$212,169,166
2033-2034	162,005,041	42,962,373	\$204,967,414
2034-2035	155,789,813	35,752,843	\$191,542,655
2035-2036	141,518,600	28,875,820	\$170,394,420
2036-2037	127,757,114	22,857,810	\$150,614,924
2037-2038	103,145,146	17,541,090	\$120,686,235
2038-2039	97,074,272	13,220,762	\$110,295,034
2039-2040	65,264,953	9,114,601	\$74,379,554
2040-2041	48,788,214	6,392,945	\$55,181,159
2041-2042	45,383,122	4,224,100	\$49,607,222
2042-2043	32,274,290	2,276,278	\$34,550,567
2043-2044	17,507,328	1,034,974	\$18,542,301
2044-2045	7,177,114	179,428	\$7,356,542
	\$3,868,313,130	\$1,519,511,532	\$5,387,824,661

Note: May not foot due to rounding.

Table A-5
Net Tax-Supported Debt
Annual Debt Service Requirements¹

Fiscal Year (ending June 30th)	Certificates of Participation	Community College Bonds (XI-G)	Higher Education Facility Bonds (XI-G)	State Highway G.O. Bonds XI Sec 7	Oregon Opportunity Bonds (OHSU)	Pension Obligation Bonds XI-O	School District Capitol Costs (XI- P)	DOE Alternate Energy Bonds (GF Supported)	DEQ Pollution Control Bonds (GF Supported)
2021	\$8,979,750	\$15,167,013	\$59,866,901	\$2,047,600	\$15,437,250	\$216,370,191	\$15,227,450	\$8,695,015	\$905,657
2022	8,979,798	16,279,744	57,763,716	2,049,200	15,437,125	225,567,942	15,226,075	6,693,356	604,343
2023	7,813,004	16,421,906	57,709,132	2,049,600	15,432,250	235,152,696	15,216,425	5,519,163	601,249
2024	7,353,358	16,472,956	57,575,511	2,048,800	8,041,125	245,145,513	15,220,425	5,678,441	608,428
2025	7,297,181	16,465,581	57,654,832	2,046,800	-	255,567,300	15,213,900	5,013,790	475,071
2026	7,297,669	16,494,281	57,123,168	2,049,125	-	266,429,051	15,208,250	5,027,417	475,681
2027	7,294,818	16,470,031	57,066,194	2,045,375	-	277,749,421	15,203,875	4,587,093	475,893
2028	7,296,095	16,534,381	55,459,300	2,049,375	-	-	15,198,625	4,486,522	475,719
2029	7,297,764	16,066,281	52,196,763	2,046,000	-	-	15,201,500	4,287,519	336,548
2030	7,298,212	15,759,806	50,183,838	2,050,125	-	-	15,201,000	3,432,797	338,935
2031	7,297,685	15,839,006	48,591,250	2,046,625	-	-	15,196,250	2,846,197	336,335
2032	7,295,468	15,923,931	47,050,628	2,045,500	-	-	15,196,000	1,897,557	337,950
2033	7,293,485	16,017,931	43,733,551	2,046,500	-	-	15,184,125	806,505	339,088
2034	7,293,930	16,122,941	43,856,752	2,049,375	-	-	15,184,375	561,805	337,482
2035	7,293,551	12,916,553	41,584,170	2,049,000	-	-	15,184,875	-	337,733
2036	7,293,807	13,033,094	41,641,633	2,050,250	-	-	15,174,500	-	339,750
2037	7,294,011	10,597,659	38,532,097	2,048,000	-	-	15,176,500	-	338,932
2038	7,293,752	10,604,769	38,140,125	2,047,125	-	-	6,857,500	-	337,614
2039	7,297,620	8,726,375	36,833,625	2,047,375	-	-	6,856,500	-	158,637
2040	-	8,719,375	33,880,000	2,048,500	-	-	-	-	-
2041	-	1,631,250	30,553,125	2,050,250	-	-	-	-	-
2042	-	1,627,500	26,353,000	2,047,500	-	-	-	-	-
2043	-	1,634,875	16,942,000	2,050,000	-	-	-	-	-
2044	-	0	6,125,875	-	-	-	-	-	-
2045	-	0	6,124,375	-	-	-	-	-	-
2046	-	0	0	-	-	-	-	-	-
Program Totals	\$142,560,959	\$295,527,241	\$1,062,541,558	\$47,108,000	\$54,347,750	\$1,721,982,115	\$272,128,150	\$59,533,177	\$8,161,046

Note: May not foot due to rounding.

Table A-5 (Continued)

**Net Tax-Supported Debt
Annual Debt Service Requirements**

Fiscal Year (ending June 30th)	Highway User Tax Revenue Bonds	State General Purpose GO's	Seismic Rehab - Public Ed Bldgs (XI- M)	Seismic Rehab - Emergency Services Bldgs (XI-N)	Lottery Revenue Bonds	Total Net Tax-Supported Debt
2021	191,635,116	220,452,754	23,398,565	4,757,555	133,270,965	\$916,211,782
2022	192,102,867	198,528,941	23,405,616	4,760,307	135,310,871	\$902,709,902
2023	191,918,015	193,014,236	23,411,688	4,757,304	134,942,858	\$903,959,526
2024	191,962,427	179,435,085	23,400,574	4,764,556	134,933,374	\$892,640,573
2025	191,763,467	162,995,909	23,399,223	4,762,244	134,937,665	\$877,592,965
2026	191,072,240	157,976,413	23,397,001	4,763,768	132,447,512	\$879,761,576
2027	190,837,924	145,639,434	23,399,577	4,764,862	123,012,093	\$868,546,590
2028	192,850,673	134,073,667	23,395,476	4,764,677	104,662,271	\$561,246,781
2029	190,073,509	131,397,958	23,399,550	4,769,874	91,515,094	\$538,588,361
2030	189,816,572	125,117,905	23,400,071	4,758,473	77,485,625	\$514,843,359
2031	191,651,968	116,148,441	23,400,261	4,760,797	67,905,988	\$496,020,804
2032	190,853,378	109,124,109	23,403,540	4,756,018	48,761,150	\$466,645,228
2033	191,067,264	104,967,236	23,401,895	4,763,958	46,973,650	\$456,595,189
2034	189,234,319	98,182,601	23,409,818	4,758,960	34,332,500	\$435,324,857
2035	190,168,387	90,849,680	23,399,705	4,755,117	34,327,250	\$422,866,022
2036	72,040,447	72,312,799	22,008,380	3,462,944	24,997,000	\$274,354,604
2037	72,025,638	61,797,349	18,547,325	3,259,750	24,994,500	\$254,611,762
2038	72,004,806	51,624,301	9,520,750	1,288,750	12,133,000	\$211,852,491
2039	71,978,283	47,030,944	7,796,750	603,750	12,132,750	\$201,462,608
2040	44,684,875	26,498,719	3,097,500	-	-	\$118,928,969
2041	44,717,925	20,840,001	-	-	-	\$99,792,551
2042	44,675,875	19,479,643	-	-	-	\$94,183,518
2043	44,628,200	13,852,877	-	-	-	\$79,107,952
2044	-	12,353,277	-	-	-	\$18,479,152
2045	-	1,225,900	-	-	-	\$7,350,275
2046	-	-	-	-	-	\$0
Program Totals	\$3,333,764,173	\$2,494,920,178	\$411,993,267	\$80,033,665	\$1,509,076,117	\$11,493,677,396

Table A-6

Net Tax Supported Debt Debt Service by Year (as of June 30, 2020) \$'000s			
Fiscal Year	Principal	Interest	Debt Service
2020-2021	549,641,518	363,949,836	913,591,353
2021-2022	559,151,055	338,794,198	897,945,253
2022-2023	586,585,582	311,943,243	898,528,826
2023-2024	601,862,940	284,035,717	885,898,657
2024-2025	613,359,223	255,698,386	869,057,609
2025-2026	644,515,795	226,332,882	870,848,676
2026-2027	663,373,555	195,494,509	858,868,064
2027-2028	388,028,269	164,172,472	552,200,741
2028-2029	381,961,483	150,309,154	532,270,637
2029-2030	374,921,507	136,649,350	511,570,857
2030-2031	372,442,244	123,256,426	495,698,670
2031-2032	359,509,339	110,305,489	469,814,828
2032-2033	365,574,125	97,324,895	462,899,020
2033-2034	360,446,455	82,030,588	442,477,043
2034-2035	365,286,003	64,955,773	430,241,776
2035-2036	229,899,860	50,707,924	280,607,784
2036-2037	219,186,408	40,776,512	259,962,920
2037-2038	184,922,955	31,408,947	216,331,902
2038-2039	182,027,049	23,523,619	205,550,668
2039-2040	105,090,000	16,143,205	121,233,205
2040-2041	90,130,000	11,474,725	101,604,725
2041-2042	88,520,000	7,357,400	95,877,400
2042-2043	76,935,000	3,377,550	80,312,550
2043-2044	18,470,000	1,083,350	19,553,350
2044-2045	7,275,000	181,875	7,456,875
	8,389,115,363	3,091,288,026	11,480,403,389

Table A-7²
Annual Debt Service Requirements for Lottery Bonds Outstanding

Annual Debt Service Requirements for Lottery Bonds Outstanding (as of 6-30-2020)												
Fiscal Year (ending June 30th)	\$129,250,000 2011 Series A DAS - Port of Tillamook, DAS- Lane Transit District, Communit Colleges & Workforce Development Dept., Connect Oregon III, Oregon University System		\$25,830,000 2011 Series C Oregon Business Development Dept and Oregon Housing & Communit Services Dept		\$53,535,000 2012 Series B Advance Refunding- Refunding Various Series (2002A, 2002C, 2003A, 2004B, 2005A)		\$122,500,000 2013 Series A Oregon University System, Community College and Workforce Dept., and Transportation		\$71,075,000 2013 Series C Advance Refunding- Refunding Various Series (2001B, 2002B, 2003B ,2004A, 2005B, 2005C)		\$38,945,000 2015 Series B DAS, Community College & Workforce Decelopment, Business Oregon, Dept. of Energy,Housing & Community Services	
	\$23,795,000 2011 Series B Advance Refunding - Refunding Various Series (1998-2009)	\$18,855,000 2012 Series A DAS, Oregon University System, and Dept. of Forestry	\$18,625,000 2014 Series A Advance Refunding- Refunding Various Series (2006A, 2007A, 2009A)	\$89,515,000 2014 Series B Advance Refunding- Refunding Various Series (2006A, 2007A, 2007A)	\$105,635,000 2014C Advance Refunding- Refunding Various Series (2009A)	\$77,805,000 2015 Series A DAS, Business Oregon, Dept. of Transportation, Water Resources						
2021	964,113	745,500	13,412,654	1,141,000	1,885,500	12,644,744	2,126,455	2,471,600	11,112,250	5,224,250	3,890,250	5,448,974
2022	964,113		14,169,522	1,139,250	1,890,300	12,646,944	2,127,080	2,468,950	11,726,750	29,464,250	3,890,250	5,444,048
2023	2,929,113				1,892,500	12,646,194	2,126,120	2,471,450	11,721,000	29,467,250	3,890,250	5,446,256
2024	2,925,950				1,890,750	12,644,694	2,125,160	2,473,050	11,723,500	29,464,500	4,150,250	5,185,251
2025	2,927,538				1,890,000	12,644,444	2,124,885	2,466,750	11,727,750	29,468,250	9,337,250	
2026	3,488,350					12,644,444		2,475,250	10,892,500		9,334,250	
2027	2,109,975					12,643,694		2,478,000	10,888,500		9,337,750	
2028	1,684,925					12,646,194					9,336,750	
2029	337,725					12,643,850					9,335,750	
2030	3,692,725					12,645,650					9,334,000	
2031	3,331,588					12,646,400					9,335,750	
2032						12,645,900					9,335,000	
2033						12,642,900					9,336,000	
2034											9,332,750	
2035											9,334,500	
2036												
2037												
2038												
2039												
2040												
Total	25,356,113	745,500	27,582,176	2,280,250	9,449,050	164,386,050	10,629,700	17,305,050	79,792,250	123,088,500	118,510,750	21,524,528

Note: May not foot due to rounding.

Includes annual fiscal year debt service requirements on all Lottery debt issued through June 30, 2020.

Table A-7³(Continued)
Annual Debt Service Requirements for Lottery Bonds Outstanding

Annual Debt Service Requirements for Lottery Bonds Outstanding (continued)										
(as of 6-30-2020)										
Fiscal Year (ending June 30th)	\$117,995,000 2015 Series C Advance Refunding - Refunding - Various Series (2007C, 2008A, 2011A)	\$164,230,000 2015 Series D Advance Refunding - Refunding - Various Series (2009A)	\$22,710,000 2015 Series E Advance Refunding - Refunding - Various Series (2010D)	\$17,195,000 2015 Series F Advance Refunding - Refunding - Various Series (2010A)	\$93,000,000 2017 Series A Various Projects -- Tax- Exempt	\$73,740,000 2017 Series B Various Projects -- Taxable	\$63,675,000 2017 Series C Advance Refunding - Refunding - Various Series (2010A, 2011A, 2012A)	\$100,395,000 2019 Series A New Funding Various Projects Tax- Exempt	\$56,235,000 2019 Series B New Funding Various Projects Taxable	Total Outstanding Debt Service Requirements
2021	9,038,000	28,906,500	3,195,500	859,750	4,650,000	8,214,500	5,207,800	5,019,750	7,111,877	133,270,965
2022	9,032,500	6,090,000	3,197,500	859,750	4,650,000	8,213,281	5,206,000	5,019,750	7,110,635	135,310,871
2023	21,027,250	6,090,000	3,194,250	2,969,750	4,650,000	8,213,770	4,074,750	5,019,750	7,113,206	134,942,858
2024	21,026,750	6,090,000	3,190,750	2,974,250	4,650,000	8,214,091	4,075,000	5,019,750	7,109,678	134,933,374
2025	21,025,250	6,090,000	3,196,750	2,968,250	4,650,000	8,213,805	4,072,500	5,019,750	7,114,494	134,937,665
2026	23,860,750	34,350,000	3,196,500	2,972,000	4,650,000	8,213,158	4,237,250	5,019,750	7,113,310	132,447,512
2027	15,974,250	34,347,000	3,195,000	2,974,750	4,650,000	8,216,382	4,065,750	5,019,750	7,111,292	123,012,093
2028	3,937,500	34,348,500	3,197,000	2,971,250	6,220,000	6,645,822	11,544,250	5,019,750	7,110,330	104,662,271
2029		34,350,750	3,192,000	2,971,500	12,861,500		3,690,500	11,734,750	396,769	91,515,094
2030					12,862,000		26,817,250	12,134,000		77,485,625
2031					12,861,750		17,599,000	12,131,500		67,905,988
2032					12,864,750		1,785,000	12,130,500		48,761,150
2033					12,864,750			12,130,000		46,973,650
2034					12,865,750			12,134,000		34,332,500
2035					12,861,500			12,131,250		34,327,250
2036					12,866,000			12,131,000		24,997,000
2037					12,862,500			12,132,000		24,994,500
2038								12,133,000		12,133,000
2039								12,132,750		12,132,750
2040										-
Total	124,922,250	190,662,750	28,755,250	22,521,250	154,540,500	64,144,810	92,375,050	173,212,750	57,291,591	1,509,076,117

Includes annual fiscal year debt service requirements on all Lottery debt issued through June 30, 2020.

Table A-8

Lottery Revenue Debt			
Total Principal and Interest Debt Service by Issue (as of 6/30/2020)			
As of June 30, 2020			
Fiscal Year	Principal	Interest	Total
2021	\$80,990,000	\$52,280,965	\$133,270,965
2022	\$86,425,000	\$48,885,871	\$135,310,871
2023	\$89,780,000	\$45,162,858	\$134,942,858
2024	\$93,780,000	\$41,153,374	\$134,933,374
2025	\$98,000,000	\$36,937,665	\$134,937,665
2026	\$100,070,000	\$32,377,512	\$132,447,512
2027	\$95,350,000	\$27,662,093	\$123,012,093
2028	\$81,485,000	\$23,177,271	\$104,662,271
2029	\$72,155,000	\$19,360,094	\$91,515,094
2030	\$61,625,000	\$15,860,625	\$77,485,625
2031	\$55,135,000	\$12,770,988	\$67,905,988
2032	\$38,750,000	\$10,011,150	\$48,761,150
2033	\$38,900,000	\$8,073,650	\$46,973,650
2034	\$28,105,000	\$6,227,500	\$34,332,500
2035	\$29,505,000	\$4,822,250	\$34,327,250
2036	\$21,650,000	\$3,347,000	\$24,997,000
2037	\$22,730,000	\$2,264,500	\$24,994,500
2038	\$11,005,000	\$1,128,000	\$12,133,000
2039	\$11,555,000	\$577,750	\$12,132,750
Total:	\$1,116,995,000	\$392,081,117	\$1,509,076,117

Table A-9

Oregon School Bond Guarantee and Pension Bonds vs. State Aid Analysis, FY19-20 *Net State Aid does not include State Managed Timber Revenues or Property Taxes (School Districts: High to Low based on Percentage of Debt Service to State Aid Guaranteed)						
District	FYE20 OSBG Annual P&I DS	FYE20 Pension Annual P&I DS	FYE20 Annual DS P&I Total	FYE20 State Aid	FYE20 % OSBG/*Net State Aid	FYE20 % Total DS/*Net State Aid
Tillamook Cty SD 101 (Nestucca Valley)	2,003,350	228,775	2,232,125	48,009	4172.85%	4649.37%
Clatsop Cty SD 10 (Seaside)	4,695,000	885,385	5,580,385	158,660	2959.16%	3517.20%
Tillamook Cty SD 56 (Neah-Kah-Nie)	1,337,065		1,337,065	81,099	1648.68%	1648.68%
Deschutes Cty SD 6 (Sisters)	2,911,385	935,144	3,846,529	2,368,130	122.94%	162.43%
Multnomah Cty SD 1J (Portland)	124,046,898	52,257,723	176,304,621	254,671,592	48.71%	69.23%
Multnomah Cty SD 51J (Riverdale)	1,392,433	454,453	1,846,886	3,534,157	39.40%	52.26%
Lincoln Cty Unified SD	6,396,325	4,976,885	11,373,210	22,321,900	28.65%	50.95%
Jackson Cty SD 5 (Ashland)	6,876,022		6,876,022	14,218,841	48.36%	48.36%
Clackamas Cty SD 12 (North Clackamas)	37,186,555	11,979,523	49,166,078	109,394,919	33.99%	44.94%
Multnomah Cty SD 3 (Parkrose)	5,183,032	1,197,845	6,380,877	14,269,149	36.32%	44.72%
Clatsop Cty SD 1 (Astoria)	3,441,891	1,849,212	5,291,103	12,165,146	28.29%	43.49%
Washington Cty SD 88J (Sherwood)	13,964,575	1,292,637	15,257,212	35,441,985	39.40%	43.05%
Deschutes Cty SD 1 (Bend-Lapine)	34,470,715	7,366,352	41,837,067	99,148,529	34.77%	42.20%
Lane Cty SD 4J (Eugene)	35,868,787	5,038,793	40,907,580	97,349,685	36.85%	42.02%
Clackamas Cty SD 62 (Oregon City)	16,300,107	4,336,670	20,636,776	53,525,885	30.45%	38.55%
Yamhill Cty SD 1 (Yamhill-Carlton)	1,554,859	991,372	2,546,231	6,708,029	23.18%	37.96%
Benton Cty SD 509J (Corvallis)	12,858,250	2,406,833	15,265,083	40,329,828	31.88%	37.85%
Clackamas Cty SD 115 (Gladstone)	4,083,000	1,765,971	5,848,971	15,981,688	25.55%	36.60%
Washington Cty SD 1J (Hillsboro)	36,387,125	9,352,799	45,739,924	139,533,342	26.08%	32.78%
Deschutes Cty SD 2J (Redmond)	12,547,713	3,052,215	15,599,927	50,281,321	24.96%	31.03%
Clackamas Cty SD 86 (Canby)	6,808,669	3,917,939	10,726,608	34,626,680	19.66%	30.98%
Clackamas Cty SD 3J (W.Linn-Wilsonville)	13,802,158	4,102,789	17,904,946	59,004,429	23.39%	30.35%
Clatsop Cty SD 30 (Warrenton-Hammond)	1,610,619	348,052	1,958,671	6,483,474	24.84%	30.21%
Tillamook Cty SD 9 (Tillamook)	1,268,550	1,766,538	3,035,088	10,522,179	12.06%	28.84%
Polk Cty SD 13J (Central)	5,520,796	2,128,548	7,649,344	26,615,754	20.74%	28.74%
Washington Cty SD 48J (Beaverton)	62,154,530	16,127,131	78,281,661	278,383,341	22.33%	28.12%
Umatilla Cty SD 16R (Pendleton)	4,245,790	2,700,499	6,946,290	25,225,885	16.83%	27.54%
Douglas Cty SD 12 (Glide)	884,400	318,609	1,203,009	4,487,546	19.71%	26.81%
Columbia Cty SD 502 (St Helens)	2,465,150	2,645,999	5,111,149	19,370,597	12.73%	26.39%
Crook Cty School District	2,666,227	2,492,845	5,159,072	19,733,609	13.51%	26.14%
Clackamas Cty SD 46 (Oregon Trail)	7,566,950		7,566,950	29,349,380	25.78%	25.78%
Yamhill Cty SD 8 (Dayton)	1,349,520	768,624	2,118,144	8,258,013	16.34%	25.65%
Washington Cty SD 23J (Tigard-Tualatin)	14,137,545	3,788,092	17,925,637	70,691,202	20.00%	25.36%
Jackson Cty SD 4 (Phoenix-Talent)	3,189,594	1,448,747	4,638,341	18,496,623	17.24%	25.08%
Multnomah Cty SD 10J (Gresham-Barlow)	19,191,543	3,815,201	23,006,744	92,596,410	20.73%	24.85%
Curry Cty SD 17 (Brookings-Harbor)	1,335,135	1,067,579	2,402,713	9,715,405	13.74%	24.73%
Linn Cty SD 8J (Greater Albany)	12,945,700	4,327,816	17,273,516	70,035,413	18.48%	24.66%
Columbia Cty SD 47J (Vernonia)	984,455		984,455	4,018,516	24.50%	24.50%
Lane Cty SD 28J (Fern Ridge)	1,989,300	687,831	2,677,131	11,184,501	17.79%	23.94%
Umatilla Cty SD 61 (Stanfield)	732,250	375,688	1,107,938	4,648,671	15.75%	23.83%
Yamhill Cty SD 40 (McMinnville)	9,498,200	2,967,196	12,465,396	53,215,723	17.85%	23.42%
Lane Cty SD 69 (Junction City)	1,811,950	949,593	2,761,543	11,955,598	15.16%	23.10%
Marion Cty SD 24J (Salem Keizer)	60,754,700	20,314,035	81,068,735	362,194,366	16.77%	22.38%
Washington Cty SD 15 (Forest Grove)	8,557,325	2,647,649	11,204,974	50,150,070	17.06%	22.34%
Umatilla Cty SD 1 (Helix)	473,325		473,325	2,130,447	22.22%	22.22%

Table A-9 (Continued)

Oregon School Bond Guarantee and Pension Bonds vs. State Aid Analysis, FY19-20 *Net State Aid does not include State Managed Timber Revenues or Property Taxes (School Districts: High to Low based on Percentage of Debt Service to State Aid Guaranteed)						
District	FYE20 OSBG Annual P&I DS	FYE20 Pension Annual P&I DS	FYE20 Annual DS P&I Total	FYE20 State Aid	FYE20 % OSBG/*Net State Aid	FYE20 % Total DS/*Net State Aid
Washington Cty SD 511J (Gaston)	524,100	428,552	952,652	4,295,762	12.20%	22.18%
Marion Cty SD 45 (St Paul)	548,800		548,800	2,537,340	21.63%	21.63%
Washington Cty SD 13 (Banks)	1,247,900	321,493	1,569,393	7,299,782	17.10%	21.50%
Lane Cty SD 40 (Creswell)	1,773,669	406,599	2,180,268	10,250,049	17.30%	21.27%
Douglas Cty SD 116 (Winston-Dillard)	949,276	1,301,432	2,250,708	11,143,299	8.52%	20.20%
Hood River Cty SD (Hood River)	4,425,400	1,946,110	6,371,510	31,562,040	14.02%	20.19%
Marion Cty SD 29J (North Santiam)	1,597,138	1,653,099	3,250,237	16,157,945	9.88%	20.12%
Yamhill Cty SD 29J (Newberg)	2,961,125	3,692,566	6,653,691	33,407,152	8.86%	19.92%
Yamhill Cty SD 4J (Amity)	633,642	729,781	1,363,423	7,091,533	8.94%	19.23%
Marion Cty SD 15 (North Marion)	1,867,100	1,256,174	3,123,274	16,302,262	11.45%	19.16%
Marion Cty SD 14J (Jefferson)	685,888	725,430	1,411,318	7,466,157	9.19%	18.90%
Union Cty SD 1 (La Grande)	2,191,788	1,012,268	3,204,055	16,975,541	12.91%	18.87%
Columbia Cty SD 1J (Scappoose)	2,712,050		2,712,050	14,403,400	18.83%	18.83%
Umatilla Cty SD 8 (Hermiston)	7,732,307	1,624,327	9,356,635	50,422,341	15.34%	18.56%
Lane Cty SD 45J3 (South Lane)	2,873,388	1,269,544	4,142,932	22,389,444	12.83%	18.50%
Multnomah Cty SD 7 (Reynolds)	9,417,300	8,495,489	17,912,789	98,837,591	9.53%	18.12%
Curry Cty SD 1 (Central Curry)	380,850		380,850	2,102,856	18.11%	18.11%
Lane Cty SD 1 (Pleasant Hill)	1,359,706		1,359,706	7,527,893	18.06%	18.06%
Linn Cty SD 55 (Sweet Home)	1,603,750	1,804,269	3,408,019	18,897,351	8.49%	18.03%
Marion Cty SD 4J (Silver Falls)	3,973,800	1,700,912	5,674,712	31,754,958	12.51%	17.87%
Coos Cty SD 9 (Coos Bay)	3,164,100	1,214,986	4,379,086	24,766,559	12.78%	17.68%
Umatilla Cty SD 2 (Pilot Rock)	364,532	235,765	600,297	3,413,631	10.68%	17.59%
Umatilla Cty SD 5R (Echo)	355,725	180,717	536,442	3,083,341	11.54%	17.40%
Marion Cty SD 5 (Cascade)	1,582,275	1,612,334	3,194,609	18,655,116	8.48%	17.12%
Jefferson Cty SD 509J (Madras)	3,315,854	1,286,468	4,602,322	28,299,055	11.72%	16.26%
Douglas Cty SD 105 (Reedsport)	611,147	299,756	910,903	5,665,344	10.79%	16.08%
Benton Cty SD 1J (Monroe)	364,525	176,082	540,607	3,390,795	10.75%	15.94%
Lane Cty SD 52 (Bethel)	6,601,210		6,601,210	41,676,111	15.84%	15.84%
Jackson Cty SD 549C (Medford)	12,788,200	4,015,390	16,803,590	106,416,809	12.02%	15.79%
Harney Cty SD 3 (Burns)	29,075	1,093,826	1,122,901	7,420,699	0.39%	15.13%
Morrow Cty SD 1	2,033,000	761,778	2,794,778	18,481,487	11.00%	15.12%
Columbia Cty SD 6J (Clatskanie)	711,710		711,710	4,706,977	15.12%	15.12%
Clackamas Cty SD 108 (Estacada)	2,297,675	1,152,179	3,449,854	22,827,575	10.07%	15.11%
Jefferson Cty SD 4 (Culver)	914,100		914,100	6,064,541	15.07%	15.07%
Josephine Cty SD (Three Rivers)	2,422,256	2,590,148	5,012,405	33,557,586	7.22%	14.94%
Lane Cty SD 19 (Springfield)	7,169,350	5,463,259	12,632,609	85,886,052	8.35%	14.71%
Jackson Cty SD 6 (Central Point)	5,220,857		5,220,857	36,375,570	14.35%	14.35%
Wasco Cty SD 12 (The Dalles) Bonds	1,888,450	1,592,230	3,480,680	24,252,168	7.79%	14.35%
Lane Cty SD 97J (Siuslaw)		974,592	974,592	7,028,174	0.00%	13.87%
Union Cty SD 11 (Imbler)	448,000		448,000	3,248,367	13.79%	13.79%
Linn Cty SD 9 (Lebanon Community)	4,308,965		4,308,965	31,674,568	13.60%	13.60%
Benton Cty SD 17J (Philomath)	1,094,400	600,999	1,695,399	12,586,236	8.70%	13.47%
Douglas Cty SD 4 (Roseburg)	2,233,364	3,595,279	5,828,643	43,297,545	5.16%	13.46%
Umatilla Cty USD 7 (Milton-Freewater)	769,150	1,397,164	2,166,314	16,146,170	4.76%	13.42%
Clackamas Cty SD 7J (Lake Oswego)		4,225,875	4,225,875	32,473,790	0.00%	13.01%

Table A-9 (Continued)

Oregon School Bond Guarantee and Pension Bonds vs. State Aid Analysis, FY19-20 *Net State Aid does not include State Managed Timber Revenues or Property Taxes (School Districts: High to Low based on Percentage of Debt Service to State Aid Guaranteed)						
District	FYE20 OSBG Annual P&I DS	FYE20 Pension Annual P&I DS	FYE20 Annual DS P&I Total	FYE20 State Aid	FYE20 % OSBG/*Net State Aid	FYE20 % Total DS/*Net State Aid
Wasco Cty SD 29 (Dufur)	433,069		433,069	3,378,948	12.82%	12.82%
Clatsop Cty SD 4 (Knappa)	546,800		546,800	4,329,064	12.63%	12.63%
Klamath Cty SD 1 (Klamath Falls)	3,041,900		3,041,900	24,241,469	12.55%	12.55%
Marion Cty SD 91 (Mt Angel)	868,013		868,013	6,978,942	12.44%	12.44%
Yamhill Cty SD 48J (Sheridan)	996,988		996,988	8,555,379	11.65%	11.65%
Jackson Cty SD 9 (Eagle Point)	3,645,650		3,645,650	31,518,836	11.57%	11.57%
Columbia Cty SD 13 (Rainier)		639,966	639,966	5,633,850	0.00%	11.36%
Morrow Cty SD 2 (Ione)	265,100		265,100	2,379,222	11.14%	11.14%
Clackamas Cty SD 35 (Molalla River)		2,165,795	2,165,795	19,618,065	0.00%	11.04%
Polk Cty SD 2 (Dallas)	2,867,550		2,867,550	26,103,652	10.99%	10.99%
Douglas Cty SD 19 (South Umpqua)		1,359,694	1,359,694	12,420,016	0.00%	10.95%
Linn Cty SD 7J (Harrisburg)	703,400		703,400	6,456,862	10.89%	10.89%
Umatilla Cty SD 6 (Umatilla)	929,400	400,690	1,330,090	12,345,030	7.53%	10.77%
Gilliam Cty SD 25J (Condon)	194,000		194,000	1,809,851	10.72%	10.72%
Douglas Cty SD 130 (Sutherlin)		1,114,625	1,114,625	10,742,888	0.00%	10.38%
Lane Cty SD 32 (Mapleton)	180,825		180,825	1,748,521	10.34%	10.34%
Lane Cty SD 66 (Crow-Applegate-Lorane)	238,050		238,050	2,404,632	9.90%	9.90%
Multnomah Cty SD 40 (David Douglas)	5,267,663	3,395,705	8,663,368	95,508,583	5.52%	9.07%
Marion Cty SD 103 (Woodburn)	4,919,778		4,919,778	55,367,622	8.89%	8.89%
Umatilla Cty SD 29J (Athena-Weston)	447,613		447,613	5,314,700	8.42%	8.42%
Malheur Cty SD 8C (Ontario)	1,033,040	1,003,997	2,037,037	24,201,405	4.27%	8.42%
Lake Cty SD 14 (North Lake)	221,111		221,111	2,658,809	8.32%	8.32%
Marion Cty SD 1 (Gervais)		1,012,036	1,012,036	12,904,709	0.00%	7.84%
Yamhill Cty SD 30J (Willamina)	252,000	257,846	509,846	6,968,364	3.62%	7.32%
Jackson Cty SD 35 (Rogue River)	584,601		584,601	8,218,774	7.11%	7.11%
Lane Cty SD 79 (Marcola)	381,513		381,513	5,477,375	6.97%	6.97%
Polk Cty SD 57 (Falls City)		181,851	181,851	2,739,925	0.00%	6.64%
Grant Cty SD 8 (Monument)		68,945	68,945	1,082,106	0.00%	6.37%
Coos Cty SD 13 (North Bend)	1,222,278	1,005,629	2,227,906	36,007,545	3.39%	6.19%
Grant Cty SD 3 (John Day)		379,289	379,289	6,324,545	0.00%	6.00%
Lane Cty SD 76 (Oakridge)	323,000		323,000	5,505,189	5.87%	5.87%
Union Cty SD 5 (Union)		173,868	173,868	2,988,294	0.00%	5.82%
Douglas Cty SD 34 (Elkton)	168,947		168,947	2,925,153	5.78%	5.78%
Multnomah Cty SD 28J (Centennial)	3,149,700		3,149,700	55,617,551	5.66%	5.66%
Malheur Cty SD 84 (Vale) (UHD 3)	489,363		489,363	8,741,836	5.60%	5.60%
Union Cty SD 8J (North Powder)	173,650		173,650	3,400,726	5.11%	5.11%
Grant Cty SD 16J (Dayville)	47,342		47,342	1,057,904	4.48%	4.48%
Klamath Cty SD	2,252,275		2,252,275	55,956,184	4.03%	4.03%
Malheur Cty SD 61 (Adrian)	154,087		154,087	3,863,551	3.99%	3.99%
Coos Cty SD 41 (Myrtle Point)	167,228		167,228	4,655,460	3.59%	3.59%
Douglas Cty SD 77 (Glendale)	110,906		110,906	3,136,149	3.54%	3.54%
Clackamas Cty SD 53 (Colton)	165,796		165,796	4,971,722	3.33%	3.33%
Linn Cty SD 129J (Santiam Canyon)	920,042	434,602	1,354,643	40,652,083	2.26%	3.33%
Polk Cty SD 21 (Perrydale)	110,828		110,828	3,390,948	3.27%	3.27%
Coos Cty SD 8 (Coquille)	356,355		356,355	10,938,312	3.26%	3.26%

Table A-9 (Continued)

Oregon School Bond Guarantee and Pension Bonds vs. State Aid Analysis, FY19-20 *Net State Aid does not include State Managed Timber Revenues or Property Taxes (School Districts: High to Low based on Percentage of Debt Service to State Aid Guaranteed)						
District	FYE20 OSBG Annual P&I DS	FYE20 Pension Annual P&I DS	FYE20 Annual DS P&I Total	FYE20 State Aid	FYE20 % OSBG/*Net State Aid	FYE20 % Total DS/*Net State Aid
Grant Cty SD 4 (Prairie City)		65,034	65,034	2,074,940	0.00%	3.13%
Lane Cty SD 71 (Lowell)	257,700		257,700	8,353,499	3.08%	3.08%
Malheur Cty SD 26 (Nyssa)	397,300		397,300	13,183,802	3.01%	3.01%
Baker Cty SD 5J (Baker)		858,184	858,184	34,539,014	0.00%	2.48%
Douglas Cty SD 22 (North Douglas)	65,750		65,750	2,969,406	2.21%	2.21%

Table A-10

Oregon School Bond Guarantee and Pension Bonds vs. State Aid Analysis, FY19-20						
*Net State Aid does not include State Managed Timber Revenues or Property Taxes						
(School Districts: Alpha List)						
District	FYE20 OSBG Annual P&I DS	FYE20 Pension Annual P&I DS	FYE20 Annual DS P&I Total	FYE20 State Aid	FYE20 % OSBG/*Net State Aid	FYE20 % Total DS/*Net State Aid
Baker Cty SD 5J (Baker)		858,184	858,184	34,539,014	0.00%	2.48%
Benton Cty SD 17J (Philomath)	1,094,400	600,999	1,695,399	12,586,236	8.70%	13.47%
Benton Cty SD 1J (Monroe)	364,525	176,082	540,607	3,390,795	10.75%	15.94%
Benton Cty SD 509J (Corvallis)	12,858,250	2,406,833	15,265,083	40,329,828	31.88%	37.85%
Clackamas Cty SD 108 (Estacada)	2,297,675	1,152,179	3,449,854	22,827,575	10.07%	15.11%
Clackamas Cty SD 115 (Gladstone)	4,083,000	1,765,971	5,848,971	15,981,688	25.55%	36.60%
Clackamas Cty SD 12 (North Clackamas)	37,186,555	11,979,523	49,166,078	109,394,919	33.99%	44.94%
Clackamas Cty SD 35 (Molalla River)		2,165,795	2,165,795	19,618,065	0.00%	11.04%
Clackamas Cty SD 3J (W.Linn-Wilsonville)	13,802,158	4,102,789	17,904,946	59,004,429	23.39%	30.35%
Clackamas Cty SD 46 (Oregon Trail)	7,566,950		7,566,950	29,349,380	25.78%	25.78%
Clackamas Cty SD 53 (Colton)	165,796		165,796	4,971,722	3.33%	3.33%
Clackamas Cty SD 62 (Oregon City)	16,300,107	4,336,670	20,636,776	53,525,885	30.45%	38.55%
Clackamas Cty SD 7J (Lake Oswego)		4,225,875	4,225,875	32,473,790	0.00%	13.01%
Clackamas Cty SD 86 (Canby)	6,808,669	3,917,939	10,726,608	34,626,680	19.66%	30.98%
Clatsop Cty SD 1 (Astoria)	3,441,891	1,849,212	5,291,103	12,165,146	28.29%	43.49%
Clatsop Cty SD 10 (Seaside)	4,695,000	885,385	5,580,385	158,660	2959.16%	3517.20%
Clatsop Cty SD 30 (Warrenton-Hammond)	1,610,619	348,052	1,958,671	6,483,474	24.84%	30.21%
Clatsop Cty SD 4 (Knappa)	546,800		546,800	4,329,064	12.63%	12.63%
Columbia Cty SD 13 (Rainier)		639,966	639,966	5,633,850	0.00%	11.36%
Columbia Cty SD 1J (Scappoose)	2,712,050		2,712,050	14,403,400	18.83%	18.83%
Columbia Cty SD 47J (Vernonia)	984,455		984,455	4,018,516	24.50%	24.50%
Columbia Cty SD 502 (St Helens)	2,465,150	2,645,999	5,111,149	19,370,597	12.73%	26.39%
Columbia Cty SD 6J (Clatskanie)	711,710		711,710	4,706,977	15.12%	15.12%
Coos Cty SD 13 (North Bend)	1,222,278	1,005,629	2,227,906	36,007,545	3.39%	6.19%
Coos Cty SD 41 (Myrtle Point)	167,228		167,228	4,655,460	3.59%	3.59%
Coos Cty SD 8 (Coquille)	356,355		356,355	10,938,312	3.26%	3.26%
Coos Cty SD 9 (Coos Bay)	3,164,100	1,214,986	4,379,086	24,766,559	12.78%	17.68%
Crook Cty School District	2,666,227	2,492,845	5,159,072	19,733,609	13.51%	26.14%
Curry Cty SD 1 (Central Curry)	380,850		380,850	2,102,856	18.11%	18.11%
Curry Cty SD 17 (Brookings-Harbor)	1,335,135	1,067,579	2,402,713	9,715,405	13.74%	24.73%
Deschutes Cty SD 1 (Bend-Lapine)	34,470,715	7,366,352	41,837,067	99,148,529	34.77%	42.20%
Deschutes Cty SD 2J (Redmond)	12,547,713	3,052,215	15,599,927	50,281,321	24.96%	31.03%
Deschutes Cty SD 6 (Sisters)	2,911,385	935,144	3,846,529	2,368,130	122.94%	162.43%
Douglas Cty SD 105 (Reedsport)	611,147	299,756	910,903	5,665,344	10.79%	16.08%
Douglas Cty SD 116 (Winston-Dillard)	949,276	1,301,432	2,250,708	11,143,299	8.52%	20.20%
Douglas Cty SD 12 (Glide)	884,400	318,609	1,203,009	4,487,546	19.71%	26.81%
Douglas Cty SD 130 (Sutherlin)		1,114,625	1,114,625	10,742,888	0.00%	10.38%
Douglas Cty SD 19 (South Umpqua)		1,359,694	1,359,694	12,420,016	0.00%	10.95%
Douglas Cty SD 22 (North Douglas)	65,750		65,750	2,969,406	2.21%	2.21%
Douglas Cty SD 34 (Elkton)	168,947		168,947	2,925,153	5.78%	5.78%
Douglas Cty SD 4 (Roseburg)	2,233,364	3,595,279	5,828,643	43,297,545	5.16%	13.46%
Douglas Cty SD 77 (Glendale)	110,906		110,906	3,136,149	3.54%	3.54%
Gilliam Cty SD 25J (Condon)	194,000		194,000	1,809,851	10.72%	10.72%
Grant Cty SD 16J (Dayville)	47,342		47,342	1,057,904	4.48%	4.48%
Grant Cty SD 3 (John Day)		379,289	379,289	6,324,545	0.00%	6.00%

Table A-10 (Continued)

Oregon School Bond Guarantee and Pension Bonds vs. State Aid Analysis, FY19-20 *Net State Aid does not include State Managed Timber Revenues or Property Taxes (School Districts: Alpha List)						
District	FYE20 OSBG Annual P&I DS	FYE20 Pension Annual P&I DS	FYE20 Annual DS P&I Total	FYE20 State Aid	FYE20 % OSBG/*Net State Aid	FYE20 % Total DS/*Net State Aid
Grant Cty SD 4 (Prairie City)		65,034	65,034	2,074,940	0.00%	3.13%
Grant Cty SD 8 (Monument)		68,945	68,945	1,082,106	0.00%	6.37%
Harney Cty SD 3 (Burns)	29,075	1,093,826	1,122,901	7,420,699	0.39%	15.13%
Hood River Cty SD (Hood River)	4,425,400	1,946,110	6,371,510	31,562,040	14.02%	20.19%
Jackson Cty SD 35 (Rogue River)	584,601		584,601	8,218,774	7.11%	7.11%
Jackson Cty SD 4 (Phoenix-Talent)	3,189,594	1,448,747	4,638,341	18,496,623	17.24%	25.08%
Jackson Cty SD 5 (Ashland)	6,876,022		6,876,022	14,218,841	48.36%	48.36%
Jackson Cty SD 549C (Medford)	12,788,200	4,015,390	16,803,590	106,416,809	12.02%	15.79%
Jackson Cty SD 6 (Central Point)	5,220,857		5,220,857	36,375,570	14.35%	14.35%
Jackson Cty SD 9 (Eagle Point)	3,645,650		3,645,650	31,518,836	11.57%	11.57%
Jefferson Cty SD 4 (Culver)	914,100		914,100	6,064,541	15.07%	15.07%
Jefferson Cty SD 509J (Madras)	3,315,854	1,286,468	4,602,322	28,299,055	11.72%	16.26%
Josephine Cty SD (Three Rivers)	2,422,256	2,590,148	5,012,405	33,557,586	7.22%	14.94%
Klamath Cty SD	2,252,275		2,252,275	55,956,184	4.03%	4.03%
Klamath Cty SD 1 (Klamath Falls)	3,041,900		3,041,900	24,241,469	12.55%	12.55%
Lake Cty SD 14 (North Lake)	221,111		221,111	2,658,809	8.32%	8.32%
Lane Cty SD 1 (Pleasant Hill)	1,359,706		1,359,706	7,527,893	18.06%	18.06%
Lane Cty SD 19 (Springfield)	7,169,350	5,463,259	12,632,609	85,886,052	8.35%	14.71%
Lane Cty SD 28J (Fern Ridge)	1,989,300	687,831	2,677,131	11,184,501	17.79%	23.94%
Lane Cty SD 32 (Mapleton)	180,825		180,825	1,748,521	10.34%	10.34%
Lane Cty SD 40 (Creswell)	1,773,669	406,599	2,180,268	10,250,049	17.30%	21.27%
Lane Cty SD 45J3 (South Lane)	2,873,388	1,269,544	4,142,932	22,389,444	12.83%	18.50%
Lane Cty SD 4J (Eugene)	35,868,787	5,038,793	40,907,580	97,349,685	36.85%	42.02%
Lane Cty SD 52 (Bethel)	6,601,210		6,601,210	41,676,111	15.84%	15.84%
Lane Cty SD 66 (Crow-Applegate-Lorane)	238,050		238,050	2,404,632	9.90%	9.90%
Lane Cty SD 69 (Junction City)	1,811,950	949,593	2,761,543	11,955,598	15.16%	23.10%
Lane Cty SD 71 (Lowell)	257,700		257,700	8,353,499	3.08%	3.08%
Lane Cty SD 76 (Oakridge)	323,000		323,000	5,505,189	5.87%	5.87%
Lane Cty SD 79 (Marcola)	381,513		381,513	5,477,375	6.97%	6.97%
Lane Cty SD 97J (Siuslaw)		974,592	974,592	7,028,174	0.00%	13.87%
Lincoln Cty Unified SD	6,396,325	4,976,885	11,373,210	22,321,900	28.65%	50.95%
Linn Cty SD 129J (Santiam Canyon)	920,042	434,602	1,354,643	40,652,083	2.26%	3.33%
Linn Cty SD 55 (Sweet Home)	1,603,750	1,804,269	3,408,019	18,897,351	8.49%	18.03%
Linn Cty SD 7J (Harrisburg)	703,400		703,400	6,456,862	10.89%	10.89%
Linn Cty SD 8J (Greater Albany)	12,945,700	4,327,816	17,273,516	70,035,413	18.48%	24.66%
Linn Cty SD 9 (Lebanon Community)	4,308,965		4,308,965	31,674,568	13.60%	13.60%
Malheur Cty SD 26 (Nyssa)	397,300		397,300	13,183,802	3.01%	3.01%
Malheur Cty SD 61 (Adrian)	154,087		154,087	3,863,551	3.99%	3.99%
Malheur Cty SD 84 (Vale) (UHD 3)	489,363		489,363	8,741,836	5.60%	5.60%
Malheur Cty SD 8C (Ontario)	1,033,040	1,003,997	2,037,037	24,201,405	4.27%	8.42%
Marion Cty SD 1 (Gervais)		1,012,036	1,012,036	12,904,709	0.00%	7.84%
Marion Cty SD 103 (Woodburn)	4,919,778		4,919,778	55,367,622	8.89%	8.89%
Marion Cty SD 14J (Jefferson)	685,888	725,430	1,411,318	7,466,157	9.19%	18.90%
Marion Cty SD 15 (North Marion)	1,867,100	1,256,174	3,123,274	16,302,262	11.45%	19.16%
Marion Cty SD 24J (Salem Keizer)	60,754,700	20,314,035	81,068,735	362,194,366	16.77%	22.38%

Table A-10 (Continued)

Oregon School Bond Guarantee and Pension Bonds vs. State Aid Analysis, FY19-20 *Net State Aid does not include State Managed Timber Revenues or Property Taxes (School Districts: Alpha List)						
District	FYE20 OSBG Annual P&I DS	FYE20 Pension Annual P&I DS	FYE20 Annual DS P&I Total	FYE20 State Aid	FYE20 % OSBG/*Net State Aid	FYE20 % Total DS/*Net State Aid
Marion Cty SD 29J (North Santiam)	1,597,138	1,653,099	3,250,237	16,157,945	9.88%	20.12%
Marion Cty SD 45 (St Paul)	548,800		548,800	2,537,340	21.63%	21.63%
Marion Cty SD 4J (Silver Falls)	3,973,800	1,700,912	5,674,712	31,754,958	12.51%	17.87%
Marion Cty SD 5 (Cascade)	1,582,275	1,612,334	3,194,609	18,655,116	8.48%	17.12%
Marion Cty SD 91 (Mt Angel)	868,013		868,013	6,978,942	12.44%	12.44%
Morrow Cty SD 1	2,033,000	761,778	2,794,778	18,481,487	11.00%	15.12%
Morrow Cty SD 2 (Ione)	265,100		265,100	2,379,222	11.14%	11.14%
Multnomah Cty SD 10J (Gresham-Barlow)	19,191,543	3,815,201	23,006,744	92,596,410	20.73%	24.85%
Multnomah Cty SD 1J (Portland)	124,046,898	52,257,723	176,304,621	254,671,592	48.71%	69.23%
Multnomah Cty SD 28J (Centennial)	3,149,700		3,149,700	55,617,551	5.66%	5.66%
Multnomah Cty SD 3 (Parkrose)	5,183,032	1,197,845	6,380,877	14,269,149	36.32%	44.72%
Multnomah Cty SD 40 (David Douglas)	5,267,663	3,395,705	8,663,368	95,508,583	5.52%	9.07%
Multnomah Cty SD 51J (Riverdale)	1,392,433	454,453	1,846,886	3,534,157	39.40%	52.26%
Multnomah Cty SD 7 (Reynolds)	9,417,300	8,495,489	17,912,789	98,837,591	9.53%	18.12%
Polk Cty SD 13J (Central)	5,520,796	2,128,548	7,649,344	26,615,754	20.74%	28.74%
Polk Cty SD 2 (Dallas)	2,867,550		2,867,550	26,103,652	10.99%	10.99%
Polk Cty SD 21 (Perrydale)	110,828		110,828	3,390,948	3.27%	3.27%
Polk Cty SD 57 (Falls City)		181,851	181,851	2,739,925	0.00%	6.64%
Tillamook Cty SD 101 (Nestucca Valley)	2,003,350	228,775	2,232,125	48,009	4172.85%	4649.37%
Tillamook Cty SD 56 (Neah-Kah-Nie)	1,337,065		1,337,065	81,099	1648.68%	1648.68%
Tillamook Cty SD 9 (Tillamook)	1,268,550	1,766,538	3,035,088	10,522,179	12.06%	28.84%
Umatilla Cty SD 1 (Helix)	473,325		473,325	2,130,447	22.22%	22.22%
Umatilla Cty SD 16R (Pendleton)	4,245,790	2,700,499	6,946,290	25,225,885	16.83%	27.54%
Umatilla Cty SD 2 (Pilot Rock)	364,532	235,765	600,297	3,413,631	10.68%	17.59%
Umatilla Cty SD 29J (Athena-Weston)	447,613		447,613	5,314,700	8.42%	8.42%
Umatilla Cty SD 5R (Echo)	355,725	180,717	536,442	3,083,341	11.54%	17.40%
Umatilla Cty SD 6 (Umatilla)	929,400	400,690	1,330,090	12,345,030	7.53%	10.77%
Umatilla Cty SD 61 (Stanfield)	732,250	375,688	1,107,938	4,648,671	15.75%	23.83%
Umatilla Cty SD 8 (Hermiston)	7,732,307	1,624,327	9,356,635	50,422,341	15.34%	18.56%
Umatilla Cty USD 7 (Milton-Freewater)	769,150	1,397,164	2,166,314	16,146,170	4.76%	13.42%
Union Cty SD 1 (La Grande)	2,191,788	1,012,268	3,204,055	16,975,541	12.91%	18.87%
Union Cty SD 11 (Imbler)	448,000		448,000	3,248,367	13.79%	13.79%
Union Cty SD 5 (Union)		173,868	173,868	2,988,294	0.00%	5.82%
Union Cty SD 8J (North Powder)	173,650		173,650	3,400,726	5.11%	5.11%
Wasco Cty SD 12 (The Dalles) Bonds	1,888,450	1,592,230	3,480,680	24,252,168	7.79%	14.35%
Wasco Cty SD 29 (Dufur)	433,069		433,069	3,378,948	12.82%	12.82%
Washington Cty SD 13 (Banks)	1,247,900	321,493	1,569,393	7,299,782	17.10%	21.50%
Washington Cty SD 15 (Forest Grove)	8,557,325	2,647,649	11,204,974	50,150,070	17.06%	22.34%
Washington Cty SD 1J (Hillsboro)	36,387,125	9,352,799	45,739,924	139,533,342	26.08%	32.78%
Washington Cty SD 23J (Tigard-Tualatin)	14,137,545	3,788,092	17,925,637	70,691,202	20.00%	25.36%
Washington Cty SD 48J (Beaverton)	62,154,530	16,127,131	78,281,661	278,383,341	22.33%	28.12%
Washington Cty SD 511J (Gaston)	524,100	428,552	952,652	4,295,762	12.20%	22.18%
Washington Cty SD 88J (Sherwood)	13,964,575	1,292,637	15,257,212	35,441,985	39.40%	43.05%
Yamhill Cty SD 1 (Yamhill-Carlton)	1,554,859	991,372	2,546,231	6,708,029	23.18%	37.96%
Yamhill Cty SD 29J (Newberg)	2,961,125	3,692,566	6,653,691	33,407,152	8.86%	19.92%

Table A-10 (Continued)

Oregon School Bond Guarantee and Pension Bonds vs. State Aid Analysis, FY19-20 *Net State Aid does not include State Managed Timber Revenues or Property Taxes (School Districts: Alpha List)						
District	FYE20 OSBG Annual P&I DS	FYE20 Pension Annual P&I DS	FYE20 Annual DS P&I Total	FYE20 State Aid	FYE20 % OSBG/*Net State Aid	FYE20 % Total DS/*Net State Aid
Yamhill Cty SD 30J (Willamina)	252,000	257,846	509,846	6,968,364	3.62%	7.32%
Yamhill Cty SD 40 (McMinnville)	9,498,200	2,967,196	12,465,396	53,215,723	17.85%	23.42%
Yamhill Cty SD 48J (Sheridan)	996,988		996,988	8,555,379	11.65%	11.65%
Yamhill Cty SD 4J (Amity)	633,642	729,781	1,363,423	7,091,533	8.94%	19.23%
Yamhill Cty SD 8 (Dayton)	1,349,520	768,624	2,118,144	8,258,013	16.34%	25.65%

Table A-11

Oregon School Bond Guarantee and Pension Bonds vs. State Aid Analysis, FY19-20 *Net State Aid does not include State Managed Timber Revenues or Property Taxes (Community Colleges: High to Low based on Percentage of Debt Service to State Aid Guaranteed)						
District	FYE20 OSBG Annual P&I DS	FYE20 Pension Annual P&I DS	FYE20 Annual DS P&I Total	FYE20 State Aid	FYE20 % OSBG/*Net State Aid	FYE20 % Total DS/*Net State Aid
Oregon Coast Community College	1,948,225	208,018	2,156,243	2,295,077	84.89%	93.95%
Blue Mountain Community College	1,888,206	965,062	2,853,268	5,455,444	34.61%	52.30%
Central Oregon Community College	3,315,350	1,226,542	4,541,892	8,856,542	37.43%	51.28%
Lane Community College	7,704,350	5,404,250	13,108,600	25,610,185	30.08%	51.19%
Rogue Community College	3,527,650	1,826,356	5,354,006	11,335,813	31.12%	47.23%
Chemeketa Community College	10,344,581	4,119,507	14,464,088	35,182,567	29.40%	41.11%
Tillamook Bay Community College	719,925	154,001	873,926	2,238,915	32.16%	39.03%
Clatsop Community College	939,820	661,006	1,600,826	4,129,351	22.76%	38.77%
Columbia Gorge Community College (Treaty-Oak AED)	1,604,225	218,104	1,822,329	4,893,539	32.78%	37.24%
Linn-Benton Community College	2,980,750	2,756,858	5,737,608	23,424,656	12.72%	24.49%
Clackamas Community College	640,100	2,777,990	3,418,090	19,188,792	3.34%	17.81%
Mt Hood Community College		5,278,691	5,278,691	32,395,831	0.00%	16.29%
Southwestern Oregon Community College		1,272,321	1,272,321	8,146,460	0.00%	15.62%
Portland Community College		10,169,980	10,169,980	107,655,859	0.00%	9.45%
Treasure Valley Community College		682,520	682,520	7,654,483	0.00%	8.92%
Umpqua Community College		1,125,265	1,125,265	12,762,758	0.00%	8.82%

APPENDIX B

Constitutional & Statutory Framework

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GENERAL OBLIGATION BONDS

General Purpose Bonds – Article XI, Section 7. The Oregon Constitution Article XI, Section 7 prohibits the State from incurring indebtedness exceeding \$50,000 without a constitutional amendment approved by voters. This single limitation applies to both General Purpose and short-term general obligation debt. Exceptions are provided such as in the case of war or invasion and also to build and maintain permanent roads. This section does not apply to real property leases up to 20 years entered into by the State for a public purpose. There are currently no General Purpose bonds currently outstanding for this purpose.

State Highway Bonds – Article XI, Section 7. Article XI, Section 7 of the Oregon Constitution approves the issuance of bonds up to one percent of the true cash value of property in the State for the purpose of building and maintaining permanent roads within the State. Although these bonds have the State's General Obligation (GO) backing as security, the debt service funding source is provided by specifically earmarked vehicle registration fees and gasoline and weight-mile tax revenues. As of June 30, 2020, there was \$28.1 million in outstanding GO bonds issued under this provision of the state constitution.

Veterans' Welfare Bonds – Article XI-A. This program, authorized by Article XI-A of Oregon's Constitution, allows the State to borrow up to eight percent of the true cash value (TCV) of all taxable property in the state to fund the Oregon War Veterans' Fund. The fund is used to finance farm and home loans for eligible veterans. Although bonds issued under this program are direct general obligations of the State, for which a property tax may be levied, the program is fully self-supporting from loan repayments. Principal amount outstanding was \$393.5 million as of June 30, 2020.

State Power Development Bonds – Article XI-D. Article XI-D of the Oregon Constitution provides authority to issue long-term GO debt, up to one and one-half percent of true cash value of all taxable property in the state, to provide for the development of hydroelectric power plants and transmission and distribution lines. This amendment to the Oregon Constitution was adopted in 1932 and has never been used.

State Forest Rehabilitation Bonds – Article XI-E. Article XI-E of the Oregon Constitution authorized the establishment of the Forest Rehabilitation bond program. The Article permits the state's credit to be loaned and indebtedness incurred in an amount not to exceed three-sixteenths of one percent of the state's true cash value to provide for the reforestation of land that the State currently owns or may acquire for the purpose of reforestation. Funds generated by the reforestation must be used to repay any outstanding debt issued under this provision. Property taxes are authorized to assist in the repayment of the debt if necessary. In addition to constitutional provisions, statutes place a limit of \$750,000 of debt per year that can be incurred for this program. This program was put in place in response to the 1933 "Tillamook Burn" which ravaged 240,000 acres of forest-land in Tillamook County. The program has not been used since 1971 and there are no outstanding bonds under this authorization.

Higher Education Building Bonds – Article XI-F (1). The Oregon Constitution allows the State to issue GO bonds for publicly-owned higher education facilities under two separate Articles, XI-F (1) and XI-G. Article XI-F(1) authorizes the State Board to borrow up to three-quarters of one percent of state true cash value to finance higher education building and land acquisition projects. Projects financed through this program must be fully self-supporting and

self-liquidating from non-General Fund revenues, including tuition, gifts, grants, leases, and/or student building fees. Principal amount outstanding was \$1.03 billion as of June 30, 2020. SB 270 (2013) authorized the establishment of independent universities with governing boards for the universities that were formerly part of the Oregon University System (OUS); these independent governing boards now have the ability to sell their own university revenue bonds that rely upon the same types of revenue streams for debt repayment that are also used for repayment of XI-F (1) bonds.

SB 270 required that in order for the newly independent universities to have continued access to the State's XI-F (1) bonding programs, any issuance of university revenue bonds must first be reviewed and approved by the Office of the State Treasurer (OST). Several revenue bonds have been reviewed and approved by OST to date for the University of Oregon and Oregon State University. These revenue bonds were eagerly accepted by the investing public, as both schools have strong, investment grade credit ratings. It is anticipated that the State will continue to issue XI-F (1) bonds for legislatively authorized projects for the balance of independent public universities with substantially lower or no credit ratings, given the significant interest cost savings afforded these universities by the State's higher credit ratings.

Higher Education Facilities and Community College Bonds – Article XI-G.¹⁹ In addition to Article XI-F(1) provisions, Article XI-G, adopted in 1964, allows a debt limit of up to three-fourths of one percent TCW to finance public higher education institution and community college facilities that are not revenue producing. Unlike Article XI-F (1), however, Article XI-G requires that any indebtedness incurred under Article XI-G not exceed the dollar amount appropriated from the State's General Fund for the same or similar purpose as the indebtedness to be incurred. As a result, this type of bond is not issued, unless there is also a legislatively authorized and matching appropriation equal to at least 50 percent of the overall cost of the project.

Historically, Article XI-G bonds for higher education were used to finance instructional and public service facilities of the OUS and community colleges. General Fund appropriations are made annually to pay debt service on these bonds. Despite the change in university governance structure established by SB 270, the State anticipates it will continue to issue XI-G bonds for legislatively authorized projects at the seven independent universities and at the Oregon Health and Sciences University (OHSU). As of June 30, 2020, the principal amount outstanding for Community College XI-G bonds was \$208.9 million and \$708.3 million for Higher Education Facilities XI-G bonds.

ORS 341.009 directs that the state should maintain a policy of substantial state participation in community college building costs. In the 1960s and 1970s, State GO bonds were issued to help support the costs of the expanding network of Oregon community colleges. The demand for a highly skilled workforce in Oregon has continued to grow, as has the need to support the retraining of existing workers for today's increasingly technical job market. Since 2007, the Legislature has included authorization of XI-G bonding in varying amounts for select community college instructional facilities.

Pollution Control Bonds – Article XI-H. Funds of up to one percent of the State's true cash value may be borrowed for purposes of financing pollution abatement and control facilities, as well as pollution control and disposal activities of State and local government agencies. This

authorization, granted under Article XI-H, requires that most facilities funded by the program, with the exception of pollution control and disposal activities and hazardous substance facilities, must “conservatively appear” to be at least seventy percent self-supporting and self-liquidating from revenues, gifts, federal grants, user charges, assessments and other fees.²⁰ Property taxing authority is provided as an additional source of revenue to support these bonds, but this authority has never been used. Historically, the portion of the debt service of these bonds associated with orphan hazardous disposal site clean-up has been repaid by General Fund appropriation, with the balance of debt service repaid by DEQ fees and repayment on loans. (Please see the “General Fund Supported Debt” chapter of this report for more information on General Fund versus Other Fund split.) The amount of General Fund support may vary over time. Principal amount outstanding was \$29.3 million as of June 30, 2020.

Water Resources Bonds – Article XI-I (1). Up to one-half of one percent of the true cash value of property within the State may be borrowed to provide funds for loans to construct water development projects. Project purposes include irrigation and drainage, community water supply, fish protection and watershed restoration. Authorized by Article XI-I (1), at least fifty percent of these funds are reserved for irrigation and drainage projects. The program is intended to be self-supporting from revenues received pursuant to financing agreements with project borrowers. There were no bonds outstanding under this program as of June 30, 2020.

Elderly and Disabled Housing Bonds – Article XI-I (2). Funds may be borrowed to finance multifamily housing for elderly and disabled persons under Article XI-I (2). This program, under which one-half of one percent of state property true cash value may be borrowed, is fully self-supporting from project mortgage loan revenues. Principal amount outstanding was \$28.9 million as of June 30, 2020.

Alternate Energy Bonds – Article XI-J. The Department of Energy is authorized by Article XI-J to incur debt up to one-half of one percent of the true cash value of all taxable property of the state to finance development of small-scale local energy projects (SELP). Projects are funded only if they can demonstrate there will be sufficient revenues to repay the loan. Although the program has the State’s GO backing, it was designed and has historically been fully self-supporting from loan repayment revenues. Over the past several years, the Department wrote-off several large loans to private parties that were deemed non-collectible, which greatly depleted SELP’s loan reserves. Recent cash flow analysis shows that the State will need to make cash infusions starting this biennium of \$4.4 million in order for the Department to meet its current debt service obligations.

Approximately \$70 million in Article XI-J bonds has been issued for energy upgrades and efficiency projects throughout the OUS system; a significant amount of which will be repaid through General Fund annual appropriations. Overall, the General Fund is now paying 40% of the overall debt service for the SELP program. There were \$125.4 million in outstanding Article XI-J bonds as of June 30, 2020,

Oregon School Bond Guaranty Program – Article XI-K. Article XI-K of Oregon’s constitution authorizes the State Treasurer to pledge the full faith and credit of the State to guaranty the GO bonds of Oregon common or union high school districts, education service districts or community college districts. The State Treasurer may also issue State GO bonds to

meet the State's obligations under the Oregon School Bond Guaranty Program. The amount of State GO bonds that can be issued to back the guaranties is limited to one half of one percent of TCV of all taxable property in the state. As of the date of this report, the State had not issued any debt permitted under the provisions of Article XI-K.

Oregon Opportunity Bonds – Article XI-L. Authorizes bonds to finance capital costs of the Oregon Health and Sciences University (OHSU) in an aggregate principal amount that produces net proceeds for the University in an amount that does not exceed \$200 million. Section 1 of the Article authorizes debt not to exceed one-half of one percent of the real market value of all property in the State. However, the State is not permitted to levy ad valorem (property) taxes to pay the bonds. The legislation authorizing the program contemplates that the bonds may be paid from tobacco settlement revenues, but those revenues are not directly pledged to pay the bonds. Principal amount outstanding was \$50.0 million of June 30, 2020.

Seismic Rehabilitation of Public Education Buildings – Article XI-M. Authorizes bonds to be issued to provide funds for the planning and implementation of seismic rehabilitation of public education buildings. Outstanding authorized debt may not exceed one-fifth of one percent real market value of all property in the State. Ad valorem property taxes may not be pledged to repay these bonds. Principal amount outstanding was \$272.2 million as of June 30, 2020.

Seismic Rehabilitation of Emergency Services Buildings – Article XI-N. Authorizes bonds to be issued to provide funds for the planning and implementation of seismic rehabilitation of emergency services buildings. Outstanding authorized debt may not exceed one-fifth of one percent real market value of all property in the State. Ad valorem property taxes may not be pledged to repay these bonds. Principal amount outstanding was \$55.1 million as of June 30, 2020.

Pension Obligation Bonds – Article XI-O. Pension Obligation Bonds (POBs) were issued under the authority of Article XI-O of the Oregon Constitution and House Bill 3659 in October 2003 in the principal amount of \$2,083,960,000. These bonds are general obligations of the State to which the full faith and credit and taxing power of the State (other than the State's power to levy ad valorem property taxes) are pledged. Proceeds of the POBs were used to pay a substantial portion of the State's unfunded actuarial liability (UAL) of the Oregon Public Employees Retirement System (PERS). The UAL is the State's portion of the difference between PERS' actuarial liability and fair market value of assets in the Public Employees Retirement Fund (PERF) available to pay such liability on November 1, 2003.

The amount of outstanding indebtedness authorized by Article XI-O is limited to one percent of the real market value of all property in the state. Debt service on the bonds is allocated among both General Fund and non-General Fund State agencies based on the payroll of such agencies. The State expects that the allocated costs to each agency will be less than if the State did not issue the bonds. Approximately 65 percent of the bond debt service is paid by non-General Fund resources leaving 35 percent of the debt service to be paid with General Fund resources. The final payment on these bonds will occur in FY 2027. Principal amount outstanding on the POBs was \$1.37 billion as of June 30, 2020.

School Construction Bonds – Article XI-P. In May 2010, the Oregon electorate adopted a constitutional amendment allowing for the issuance of State GO bonds as a match to local public school district funds for school capital projects (Article XI-P bonds). This constitutional amendment authorizes the State to incur indebtedness in an amount not to exceed one-half of one

percent of the real market value of the real property in the state, but does not authorize a levy on property taxes to pay for these bonds

The 2015 Legislature authorized the bond program's initial sale of bonds for this program, as well as adopting SB 447, which authorized the establishment of the Office of School Facilities within the Oregon Department of Education. The Office of School Facilities was created to administer the new bond program and the Oregon State Capital Improvement Program (OSCIM Program) with the goal of increasing local school district investment in their capital construction and school facilities. The OSCIM Program provides "matching" grants intended to incentivize local voters to vote for school construction general obligation bonds by matching state dollars with local funds.

The OSCIM Program awards funds through two means, a priority list and first in time list. The priority list ranks all districts based on a formula using their assessed value and poverty rate. Districts with lower assessed values and higher poverty rates are higher on the priority list and receive commitments first. The first in time list awards districts commitments based on the time they turn in their applications. All districts that submit during a specified time period are considered to have turned in their applications at the same time and a lottery is used to award funds until XI-P bond funds are depleted. The size of the award is based on a formula with most districts in the state receiving a maximum award of \$4 million although larger districts can receive a maximum of up to \$8 million.

Given the estimated \$7.6 billion in statewide deferred school capital and maintenance costs, it is anticipated that there will be strong statewide demand over time for this bond program. As of June 30, 2020, there was \$178.6 million in bonds outstanding through this program.

State General Purpose Bonds – Article XI-Q. Authorizes the State to incur indebtedness in an amount not to exceed one percent of the real market value of the real property in the state to provide funds to acquire, construct, remodel, repair, equip or furnish real or personal property that is or will be owned and/or operated by the State of Oregon. Passed by the voters in November 2010, and enacted into statute in the following year by the 2011 Legislative Assembly, the Article XI-Q bonding program replaced the Certificate of Participation bonding program as a means of financing most state-owned property due to its superior credit ratings and lower cost of funds. Through June 30, 2020, the State has sold thirty-four separate issues of Article XI-Q bonds, both for new state capital projects but also to refund several series of outstanding COPs, saving Oregon taxpayers \$156.7 million in interest costs on present value savings over the life of these bonds. As of June 30, 2020, the principal outstanding for Article XI-Q bonds totaled \$1.99 billion.

DIRECT REVENUE BONDS

Single-Family and Multifamily Revenue Bonds – ORS 456.645. Oregon Revised Statute 456.645 to 456.725 authorizes the Housing and Community Services Department to issue revenue bonds for the purpose of financing single-family mortgage loans and multifamily housing projects. The statute limits outstanding debt to \$2.5 billion. These bonds are fully self-supported with payment for the bonds coming from project rental revenues, as well as mortgage payments and fees. Principal amount outstanding was \$1.20 billion as of June 30, 2020.

State Highway User Tax Bonds – ORS 367.605. The Oregon Constitution Article IX, Section 3a and Oregon Revised Statutes 367.605 to 367.665 authorize the Department of Transportation

to issue highway user tax revenue bonds to provide proceeds for building and maintaining permanent public roads. Highway user tax bonds differ from other State revenue bond programs in that they are secured by constitutionally dedicated tax proceeds from fuel sales and other taxes or fees charged for vehicle use and licensing. However, they are typical of revenue bond programs in that they are not secured by the State's GO pledge.

The 1999 Legislative Assembly under ORS 367.620 authorized the issuance of debt up to \$138.4 million in highway user tax bonds. Under this authorization, the Department issued bonds in the amount of \$58,355,000 in August 2000. The remainder of this authorization was repealed in 2001 Oregon Laws Chapter 669.

The 2001 Legislative Assembly revised ORS 367.620(2) to approve issuance of \$400 million of new highway user tax bonds. House Bill 4010, passed during the First Special Session of the 2002 Legislature, again revised ORS 367.620 increasing the issuance of new highway user tax revenue bonds sufficient to produce net proceeds of not more than \$500 million. The authority granted was further restricted to an aggregate principal amount that the department reasonably believes can be paid with \$71.2 million in biennial debt service.²¹ As of December 31, 2008 the department had issued all \$500 million in net proceeds under this authorization; there is no remaining bonding authority under these provisions.

The 2003 Legislative Assembly approved HB 2041 amending ORS 367.620(3) to provide additional authority for \$1.9 billion net proceeds in highway user tax revenue bonds for bridges and highway modernization purposes. It was envisioned at that time that bonds supporting this program authorization would be issued over a number of years; in 2010, the final series of highway user tax revenue bonds for this program was issued.

In 2009, the Legislative Assembly enacted the Jobs and Transportation Act (JTA) which authorized the Department to issue up to \$840 million in net proceeds through the issuance of additional highway user tax revenue bonds for specific congestion management projects. The final series of revenue bonds associated with this authorization was sold in FY 2017.

The total principal amount outstanding for highway user tax revenue bonds was \$2.25 billion as of June 30, 2020.

Oregon Transportation Infrastructure Fund Bonds – ORS 367.015. ORS 367.015 to 367.030 authorize the Department of Transportation to issue revenue bonds for the Oregon Transportation Infrastructure Fund. The fund is to provide infrastructure loans and assistance for transportation projects. The total principal amount of revenue bonds that may be issued and outstanding at any one time under this authorization cannot exceed \$200 million. Currently, no Transportation Infrastructure Fund bonds authorized by these provisions have been issued or are outstanding.

City and County Roads and Recreation Facilities Bonds – ORS 367.700. ORS 367.700 to 367.750 authorizes State Department of Transportation bonded indebtedness in the aggregate principal amount of \$50 million. This provision was enacted into law in 1975 for the purpose of providing funds to cities and counties to defray the costs of city and county street construction and the acquisition, development, maintenance and care of public park and recreation facilities. No State bonds have ever been issued under the provisions of this legislation.

Oregon Bond Bank Revenue Bonds – ORS Chapter 285B.467. The Oregon Economic and Community Development Department (OECDD) have been granted statutory authority to issue bonds under two revenue bond programs. Pursuant to ORS 285B.410 through 285B.479, bonds, may be issued to fund the Special Public Works Fund (SPWF) to assist municipalities in financing the infrastructure necessary for economic development. In addition, the Department, pursuant to ORS 285B.572 through 285B.587, may issue bonds to finance loans to municipalities for safe drinking water projects and wastewater system improvement projects. Bond proceeds under this program are used to fund the Water/Wastewater Financing Program to deliver funds to eligible municipalities. The bonds are payable from loan repayments made by municipalities. Under each of these programs, the Department is authorized to request the State to withhold any amounts otherwise due to the municipality from the State to pay such amounts that may be owed.

In 1997, the Oregon State Legislature enacted ORS 285B.482 to authorize the consolidation of proceeds of revenue bonds issued for the SPWF Program and the Water/Wastewater Program. Future bonds for these programs are issued under the consolidated Oregon Infrastructure Authority Bond Bank Revenue Program. Additionally, all prior bonds issued under these programs are considered parity bonds. Future bonds supporting the SPWF and the Water/Wastewater programs will be issued as single series under the Oregon Infrastructure Authority Bond Bank Revenue Bond program. Principal amount outstanding is \$42.2 million as of June 30, 2020.

Lottery Revenue Bond Program(s) – ORS 286A.560 to 286A.585. The Oregon State Lottery was created by an amendment to the Oregon Constitution in 1984. That amendment revised Article XV, Section 4 of the Oregon Constitution to require the establishment and operation of the Oregon State Lottery. Article XV, Section 4 requires that all proceeds from the Lottery, including interest earnings but excluding expenses and payment of prizes, be used for creating jobs, furthering economic development, financing public education in Oregon or restoring and protecting Oregon’s parks, beaches, watersheds and critical fish and wildlife habitats. The Article also requires the Legislative Assembly to appropriate Lottery net proceeds in amounts sufficient to pay lottery bonds before appropriating the Lottery’s net proceeds for any other purpose.

The first statutory authority, ORS 391.140, permitted the issuance of up to \$115 million in bonds for financing the costs of development, acquisition and construction of the Westside corridor light-rail project. Subsequently, the Legislative Assembly has authorized additional Lottery-backed bond programs at each of its regular sessions. In 1999, the Legislature passed Senate Bill 200 to combine previously enacted legislation authorizing lottery bonds into a single Act. The Act, incorporated as ORS 286A.560 to 286A.585, creates a single consistent legislative authorization and uniform administrative procedures for all lottery bonds issued by the State of Oregon. As of June 30, 2020, Lottery Bond principal amount outstanding was \$1.12 billion.

Forest Development Revenue Bonds – ORS 530.140. The State Forestry Department is authorized by the provisions of ORS 530.140 to 530.147 to sell revenue bonds of the State of Oregon, to be known as Oregon Forest Development Revenue Bonds. No bonds have been issued or are outstanding under this authorization.

Oregon Student Assistance Revenue Bonds – ORS 348.655. Bond authorization and eligibility requirements are defined by ORS 348.655 to 348.695. It authorizes the issuance of up to \$30

million annually in revenue bonds to fund loans to support the “alternative student loan” program. Eligible student, as defined by ORS 348.618, means a student enrolled in an eligible post-secondary educational institution located in Oregon or a student who is an Oregon resident and who is enrolled in an eligible post-secondary educational institution located outside of Oregon. To date, no debt has been authorized or issued under this authorization.

Oregon Innovation Revenue Bonds – ORS 284.746. Bond authorization and project eligibility requirements are defined by ORS 284.740 to 284.749. These bonds are intended to fund loans and grants related to innovation-based economic development projects, as determined by the Oregon Innovation Council. To date, no debt has been authorized or issued under this authorization.

CONDUIT REVENUE BONDS

The State has authorized four conduit or “pass-through” revenue bond programs. Under these programs, the State is considered the issuer, but has no obligation to fund debt service payments other than out of payments from the entities on whose behalf the bonds are issued.

Oregon Facilities Authority (OFA) – ORS Chapter 289. The Oregon Facilities Authority, formerly named the Health, Housing, Educational, and Cultural Facilities Authority, was created in 1989 and operates pursuant to Oregon Revised Statutes Chapter 289. OFA is a public corporation empowered to issue conduit revenue bonds and assist with the assembling and financing of lands for health care, housing, educational and cultural uses and for the construction and financing of facilities for such uses. Effective January 1, 2007, OFA’s mandate was expanded to include the financing for all non-profit institutions, organizations or entities within the State that are exempt from taxation under section 501(c)(3) of the Internal Revenue Code, as defined in ORS 314.011. The Authority reviews proposed projects and makes recommendations to the State Treasurer whether to finance the project through the issuance of limited obligation bonds.

Although the State Treasurer issues OFA bonds, they are repaid solely from revenues generated by the projects being financed or from other sources available to the borrower. The State has no financial obligation for these bonds and bondholders have no recourse against the properties, funds or assets of the Issuer, the State or the Authority for payment of bond debt service. Bondholder's only recourse for payment of the bonds is against the actual borrower.

In 2007, OFA initiated the Small Nonprofit Accelerated Program (SNAP Bond Program), which is a streamlined low-cost private placement program for smaller non-profits that is simple to use and generally has smaller transaction costs. Principal amount outstanding for OFA in total was \$1.99 billion as of June 30, 2020.

Industrial Development Revenue Bonds – ORS Chapter 285B. The Oregon Business Development Commission is empowered, pursuant to ORS 285B.320 to 285B.371, to issue Industrial Development Revenue Bonds through the Oregon Business Development Department, with the approval of the State Treasurer. They are issued as limited obligation bonds payable only from project revenues or other sources available to the borrower. Industrial or economic development revenue bonds do not constitute an indebtedness of the Issuer, the Commission or the State. Proceeds of these bonds are loaned to private businesses to finance various expansions, relocations, retentions, and other projects that will stimulate economic development and provide jobs in the State. Prior to approval of issuance, the State subjects individual projects to a cost

effectiveness test to ensure that the public benefits of a project outweigh the related public costs. Principal amount outstanding was \$651.2 million as of June 30, 2020.

Housing Development Revenue Bonds – ORS 456.692. The Oregon Housing and Community Services Department is authorized pursuant to ORS 456.692 to issue conduit revenue bonds through the State Treasurer for Housing Development. The multifamily housing program provides financing for developments in which a certain number of the housing units are for persons and families of lower income. Each bond issue finances multi-family housing projects that are separately secured by revenues and assets specifically pledged by the borrower. Similar to the other State conduit revenue bond programs, as noted above, there is no bondholder recourse to the State for payment should the project not be able to meet its debt service requirements. Principal amount outstanding was \$784.99 million as of June 30, 2020.

Beginning and Expanding Farmer Revenue Bonds – ORS 285.430. The Oregon Business Development Department is authorized pursuant to ORS 285.430 to issue conduit revenue bonds to fund Beginning and Expanding Farmer loans for approved agricultural projects. Bond issues finance loans that are secured by revenues and assets specifically pledged by the borrower. Similar to the other State conduit revenue bond programs, as noted above, there is no bondholder recourse to the State for payment should the borrower not be able to meet its debt service obligations. As of June 30, 2020, two small loans have been issued through this program and there is no outstanding balance.

APPROPRIATION CREDITS

Appropriation Bonds – SB 856 – 2003 Legislature. Senate Bill 856, the Appropriation Bond Act, was passed by the 2003 Legislative Assembly. The Act authorized the issuance of bonds to assist the State of Oregon in balancing its budget for the 2001-2003 Biennium. Appropriation bonds in the par amount of \$431,560,000 were issued in April 2003. These bonds are special obligations of the State payable solely from appropriated moneys and do not represent a general, unlimited-tax obligation of the State. In the Appropriation Bond Act, the Legislative Assembly acknowledged its current intention to apply the moneys available to the State from tobacco settlement revenues to pay the debt service for the appropriation bonds. As of June 30, 2020 there were no outstanding bonds under this authorization.

Certificates of Participation – ORS Chapter 283.085. Oregon Revised Statutes 283.085 to 283.092 permit the State to enter into financing agreements, including lease purchase agreements, installment sale agreements and loan agreements to finance essential real or personal property and issue certificates of participation evidencing these financing agreements.

Certificates of Participation (COPs) are considered tax-exempt government securities and special obligations of the State payable solely from available funds. They are no general obligations secured by the full faith and credit of the State. Rather, the Oregon Legislature must appropriate COP repayment amounts each biennium for which repayments are scheduled. If the Legislature were to deny a budget request to make the COP payments for a future biennium, the COP Trustee would exercise available legal remedies against the State. These remedies could include the denial of the use of the building(s) or the equipment financed by the COPs for which payment had been denied. While the state's General Fund has been traditionally viewed as the source of repayment for all COP debt, a recent review indicates that a portion of this debt service

payment is actually paid by other revenues. (Please see “General Fund Supported Debt Capacity” chapter of this report for additional information.)

Passage of Ballot Measure 11 by Oregon voters in 1994 is directly related to the significant increase in COP debt from about \$191 million in FY 1995 to about \$1.1 billion in FY 2008. Measure 11 created mandatory minimum penalties for specified crimes and required that juveniles charged with certain violent crimes be tried and sentenced as adults. The practical effect of Measure 11 is the considerable requirement for increased construction of adult and juvenile prisons and correctional facilities.

Beginning with the construction of the Snake River Correction Facility in Ontario in the early 1990s, the Oregon Department of Corrections has used COPs to finance the major expansion of the prison system. The proceeds from COPs are also used for the construction of local jail capacity related to the SB 1145²² population, purchase of property, design costs, site costs, major improvements or upgrades of existing facilities, and the staff costs associated with the construction and improvement of facilities.

Since the passage of Article XI-Q GO bonds for state owned and/or operated facilities by voters in 2011, the State has dramatically reduced the use of this financing mechanism, as GO bonds provide a higher rating and lower cost of funds compared to COPs. In addition, the State has refinanced a significant portion of existing COP debt with Article XI-Q bonds, saving Oregon taxpayers \$101.4 million in interest costs to date on a present value savings. In March 2019, the State issued \$100 million in COPs to fund the partial decoupling of the Elliott State Forest from the Common School Fund – given the unusual nature of this financing, COPs rather than XI-Q GO bonds were used to provide funds to offset the financial impacts that environmental restrictions that have imposed on the revenue-generating ability of this forest. Principal amount outstanding for remaining COP debt was \$100.94 million as of June 30, 2020.