



STATE AND LOCAL GOVERNMENTS' FISCAL OUTLOOK

2016 Update Accessible Version

GAO's State and Local Fiscal Simulations

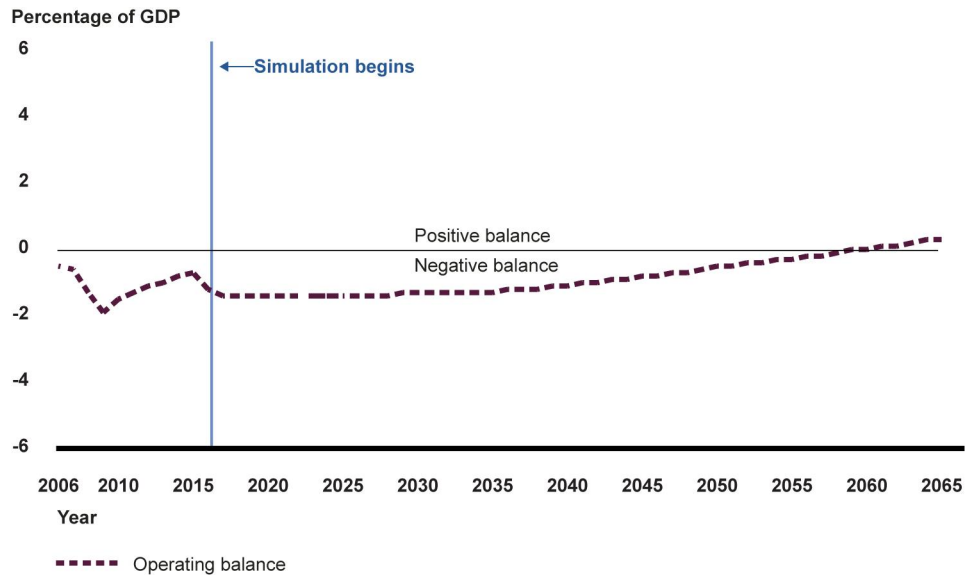
Fiscal sustainability presents a national challenge shared by all levels of government. GAO's simulations of long-term fiscal trends in the state and local government sector—published since 2007—have consistently shown that state and local governments face long-term fiscal pressures driven largely by the rising health-related costs of Medicaid and the costs of health care compensation for employees and retirees. Absent any policy changes, the state and local government sector faces a gap between expenditures and receipts in future years. Closing this gap will require state and local governments to make policy changes to assure that receipts are at least equal to expenditures.

GAO's model uses the Bureau of Economic Analysis's (BEA) National Income and Product Accounts (NIPA) as the primary data source and presents the results in the aggregate for the state and local sector as a whole. The model shows the level of receipts and expenditures for the sector until 2065 based on current and historical spending and revenue patterns. The model assumes that the current set of policies in place across state and local government remains constant to show a simulated long-term outlook. GAO's model incorporates Congressional Budget Office (CBO) economic projections, which capture near-term cyclical swings in the economy. Because the model covers the sector in the aggregate, the fiscal outcomes for individual states and localities cannot be identified. This product is part of a body of work on the nation's long-term fiscal challenges. Related products can be found at http://www.gao.gov/fiscal_outlook/state_local_fiscal_model/overview#t=2

View [GAO-17-213SP](#). For more information, contact Heather Krause at 202-512-6806 or Krauseh@gao.gov, or Oliver Richard at 202-512-8424 or Richardo@gao.gov.

The state and local government sector continues to face fiscal challenges which contribute to the nation's overall fiscal challenges. As shown in figure 1, GAO's simulations suggest that the sector could continue to face a gap between revenue and spending during the next 44 years, as reflected by the simulated operating balance measure. The simulation assumes that the tax structure is unchanged in the future and that the provision of real government services per capita remains relatively constant. GAO's simulations also suggest that while the gap narrows and ultimately closes near the end of the model's simulation period, state and local governments would need to make policy changes to avoid fiscal imbalances before then.

Figure 1: State and Local Operating Balance Measure as a Percentage of Gross Domestic Product (GDP)



Sources: GAO calculations using Bureau of Economic Analysis data and GAO simulations, updated December 2016. | GAO-17-213SP

Notes: Historical values from 2006 to 2015 are GAO calculations using data from the Bureau of Economic Analysis and the Board of Governors of the Federal Reserve System. GAO's simulations are from 2016 to 2065, using many Congressional Budget Office projections and assumptions, particularly for the next 10 years. The simulated operating balance is a measure of the sector's ability to cover its current expenditures out of current receipts. The simulated operating balance measure is all receipts, excluding funds used for long-term investments, minus current expenditures. To develop this measure, GAO subtracts funds used to finance longer-term projects—such as investments in buildings and roads—from receipts since these funds would not be available to cover current expenses. Similarly, GAO excludes capital-related expenditures from spending. While most states have requirements related to balancing their budgets, deficits can arise because of unanticipated events such as recessions. These deficits can occur because the planned annual revenues are not generated at the expected rate, demand for services exceeds planned expenditures, or both, resulting in a near-term operating deficit. States have tapped fiscal reserves to cope with revenue shortfalls during recessions, as indicated by their reported total balances, which are composed of general fund ending balances and amounts in state budget stabilization "rainy day" funds. Figure 1 depicts the state and local simulated operating balance only, and does not include fiscal reserves or other budget measures used to cope with revenue shortfalls.



In the long term, our model suggests that total tax revenues as a percentage of gross domestic product (GDP) will gradually increase during the simulation period, driven largely by increases in personal income tax revenues. This gradual increase follows a decline between 2007 and 2009 in both personal and sales tax revenues as a percent of GDP, and declines between 2009 and 2015 in property tax revenues as a percent of GDP. Meanwhile, another driver of the sector's operating balance in the long term is the rising health-related costs of state and local expenditures on Medicaid, and the costs of health care compensation for state and local government employees and retirees.

Since most state and local governments are required to balance their operating budgets, the fiscal conditions indicated by our simulations continue to suggest that the sector would need to make policy changes to avoid fiscal imbalances in the future. That is, absent any intervention or policy changes, state and local governments are facing, and will continue to face, a gap between receipts and expenditures in the coming years.

Despite state and local pension asset balances increasing in recent years, our simulations suggest that state and local governments may still need to take steps to manage their pension obligations in the future. Real pension asset values increased around 15 percent between 2012 and 2015, from approximately \$2.56 trillion in 2012 to \$2.93 trillion in 2015.¹ Real pension assets for 2015 now exceed the 2007 historical high of \$2.85 trillion. However, we have reported in past work that while most state and local government pension plans have assets sufficient to cover benefit payments to retirees for a decade or more, plans have experienced a growing gap between assets and liabilities over the longer term.² Our simulations suggest that state and local governments will need to increase their pension contributions, absent any changes to benefits or employee contributions in the future. Alternatively, state and local governments may need to take steps to manage their pension obligations by reducing benefits or increasing employees' contributions.³

¹Dollar amounts are adjusted for inflation and expressed in 2009 dollars.

²GAO, *State and Local Government Pension Plans: Economic Downturn Spurs Efforts to Address Costs and Sustainability*, [GAO-12-322](#) (Washington, D.C.: Mar. 2, 2012).

³The results of our pension modeling are highly sensitive to our assumptions on the expected real yield on returns. For this and prior year models, we assumed a 5 percent real yield on returns.

Policy Changes Required in the State and Local Government Sector to Maintain Long-Term Fiscal Balance

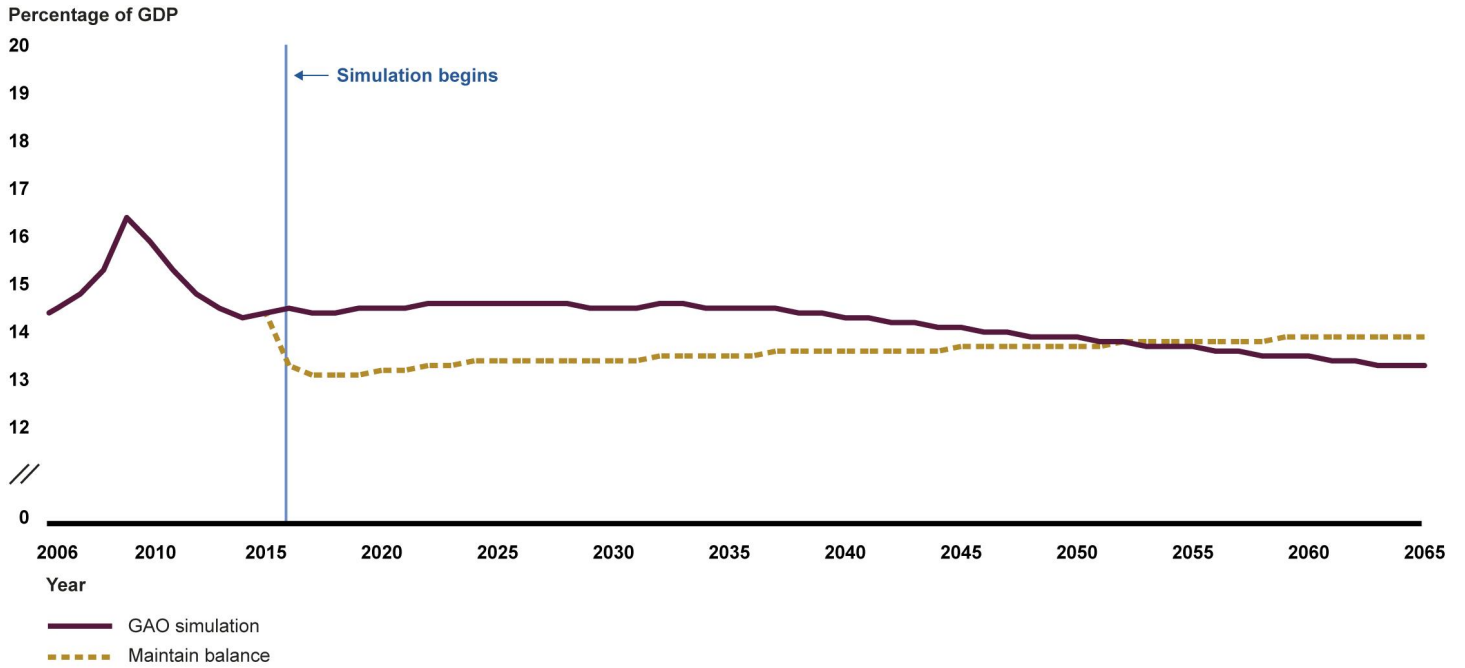
One way of measuring the long-term fiscal challenges faced by the state and local government sector is through a measure known as the “fiscal gap.”⁴ The fiscal gap is an estimate of actions that must be taken today and maintained for each year going forward to achieve fiscal balance during the simulation period. We measured the gap as the amount of spending reductions needed to prevent negative operating balances. As shown in figure 2, under our simulation, state and local expenditures decline slightly as a percentage of GDP during the simulation time frame.⁵ Under our simulation, we calculated that closing the fiscal gap would require action to be taken today and maintained for each year equivalent to a 3.3 percent reduction in the state and local government sector’s current expenditures. Closing the fiscal gap through revenue increases would require action of similar magnitude through increases in state and local tax revenues. More likely, closing the fiscal gap would involve some combination of both expenditure reductions and revenue increases.⁶

⁴The fiscal gap for the state and local model is calculated for the years 2016 to 2065.

⁵As noted earlier, in our simulation, we assumed that the tax structure does not change in the future and that the provision of real government services per capita remains roughly constant.

⁶The “maintain balance” spending path shown in figure 2 is illustrative. Our model assumes no economic effects from closing the state and local fiscal gap. Because abrupt spending declines or tax increases would likely have negative effects on both state and local governments and the economy as a whole, the adjustments needed to achieve fiscal balance would likely need to be adopted gradually.

Figure 2: State and Local Government Action Required to Maintain Balance (Expenditure Reductions as a Percentage of Gross Domestic Product (GDP))



Sources: GAO calculations using Bureau of Economic Analysis data and GAO simulations, updated December 2016. | GAO-17-213SP

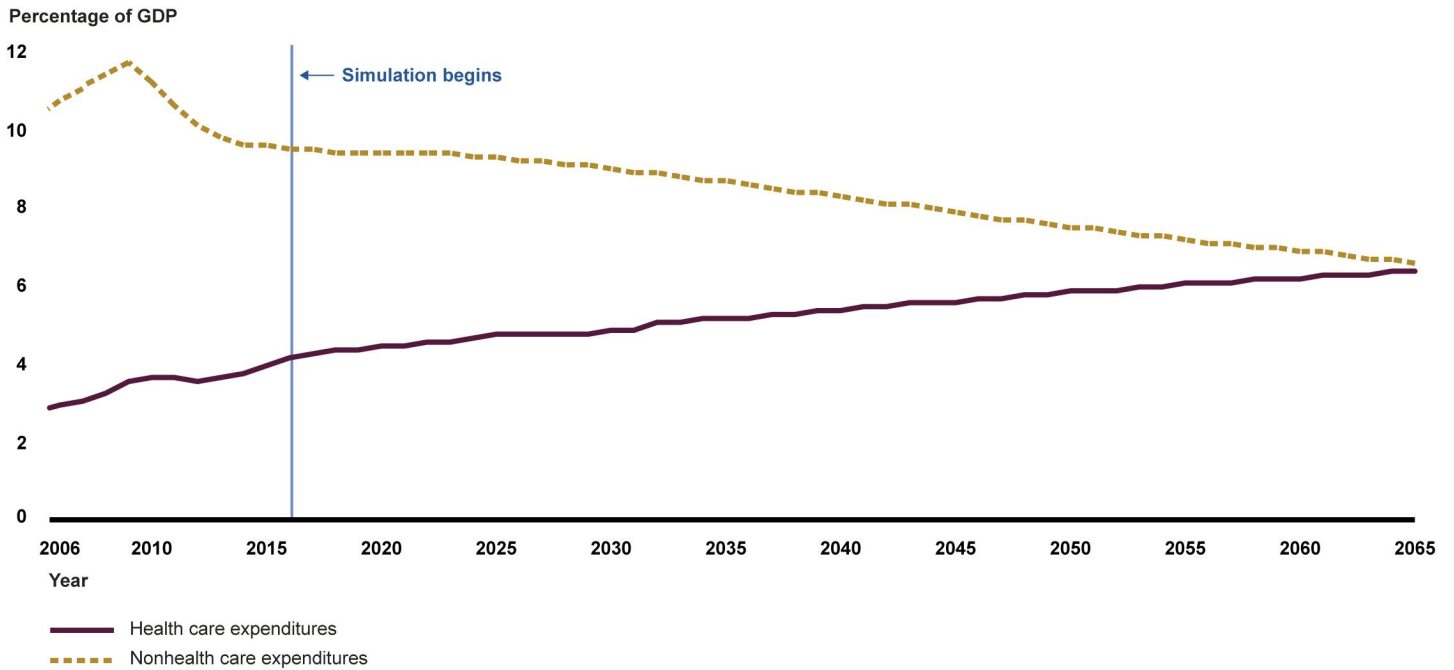
Notes: Historical data from 2006 to 2015 are from the Bureau of Economic Analysis. Our simulations are from 2016 to 2065, using many Congressional Budget Office projections and assumptions, particularly for the next 10 years. Closing the fiscal gap would require action to be taken today and maintained for each year equivalent to a 3.3 percent reduction in the state and local government sector's current expenditures.

State and Local Governments Continue to Face Fiscal Challenges from Estimated Growth in Health-Related Costs

Our simulations show that a primary driver of long-term fiscal challenges for the state and local government sector continues to be the growth in health-related costs. Specifically, state and local Medicaid expenditures and the cost of health care compensation for state and local government employees and retirees generally grow at a rate that exceeds GDP.⁷ The model's simulations suggest that the sector's health-related costs will be about 4.1 percent of GDP in 2016 and 6.3 percent of GDP in 2065. From 2016 through 2065, Medicaid expenditures are expected to increase on average by 0.5 percentage points more than GDP—referred to as excess cost growth. Other health related receipts and expenditures, including health care compensation for state and local government employees and retirees, are expected to increase on average by 0.9 percentage points more than GDP each year from 2016 to 2023, and then begin to decline, reaching 0.7 percentage points in 2065. In contrast, other types of state and local government expenditures in our model—such as wages and salaries of state and local government workers—decline as a percentage of GDP. Our simulations indicate that the sector's nonhealth-related costs will be about 9.4 percent of GDP in 2016 and about 6.5 percent of GDP in 2065. Our simulations for health-related and other expenditures are shown in figure 3.

⁷The health-related cost growth assumption in our model includes adjustments in response to the March 2010 passage of the Patient Protection and Affordable Care Act. Pub. L. No. 111-148, 124 Stat. 119 (Mar. 23, 2010) (PPACA), as amended by the Health Care and Education Reconciliation Act of 2010, Pub. L. No. 111-152, 124 Stat. 1029 (Mar. 30, 2010) (HCERA). In this report, references to PPACA include any amendments made by HCERA. Our model assumes health care excess cost growth for Medicaid of about 0.06 percent for 2016 to 2025, and about 0.6 percent from 2026 to the end of our simulation period. Rates are based on national health care expenditure projections consistent with current law assumptions in the Medicare Board of Trustees 2016 report.

Figure 3: Health and Nonhealth Expenditures of State and Local Governments as a Percentage of GDP



Sources: GAO calculations using data from the Agency for Healthcare Research and Quality and the Bureau of Economic Analysis, and GAO simulations, updated December 2016. | GAO-17-213SP

Notes: Historical values from 2006 to 2015 are GAO calculations using data from the Bureau of Economic Analysis and the Agency for Healthcare Research and Quality. Our simulations are from 2016 to 2065, using many Congressional Budget Office projections and assumptions, particularly for the next 10 years.

As we have reported in prior work, the effect of the Patient Protection and Affordable Care Act (PPACA) on the long-term state and local fiscal outlook is uncertain and may depend on the states' implementation of PPACA and on future rates of health care cost growth.⁸ For example, under PPACA, a number of states have opted to expand their Medicaid

⁸GAO, *State and Local Governments' Fiscal Outlook: 2015 Update*, GAO-16-260SP (Washington, D.C.: Dec. 16, 2015).

program coverage to millions of lower income adults.⁹ While the federal government is expected to cover a large share of the costs of the Medicaid expansion, states are ultimately expected to bear some costs during a period when their budgets are already under pressure. Given both the financial incentives and disincentives for states to participate in the Medicaid expansion, what the remaining states will decide to do regarding the expansion under PPACA is unknown. Further, states in future years may also apply to waive certain health insurance exchange requirements.¹⁰ This, combined with other factors such as income growth, which affects individuals' eligibility, and the future underlying rate of the health care cost growth, add to the uncertainty of future Medicaid costs.¹¹

With regard to revenue growth over the long term, our simulations suggest that, excluding Medicaid grants from the federal government, state and local sector total revenues (which include non-Medicaid federal grants), would gradually decline as a percentage of GDP. At the same time, some categories of tax receipts would gradually increase as a percentage of GDP. Specifically, personal income tax receipts may increase from 2.1 percent of GDP in 2016 to 2.7 percent of GDP in 2065. Likewise, property tax receipts may increase slightly from 2.5 percent of GDP to 2.7 percent of GDP over the same period, reflecting simulated growth in the property tax base over the long term. Sales tax receipts, on

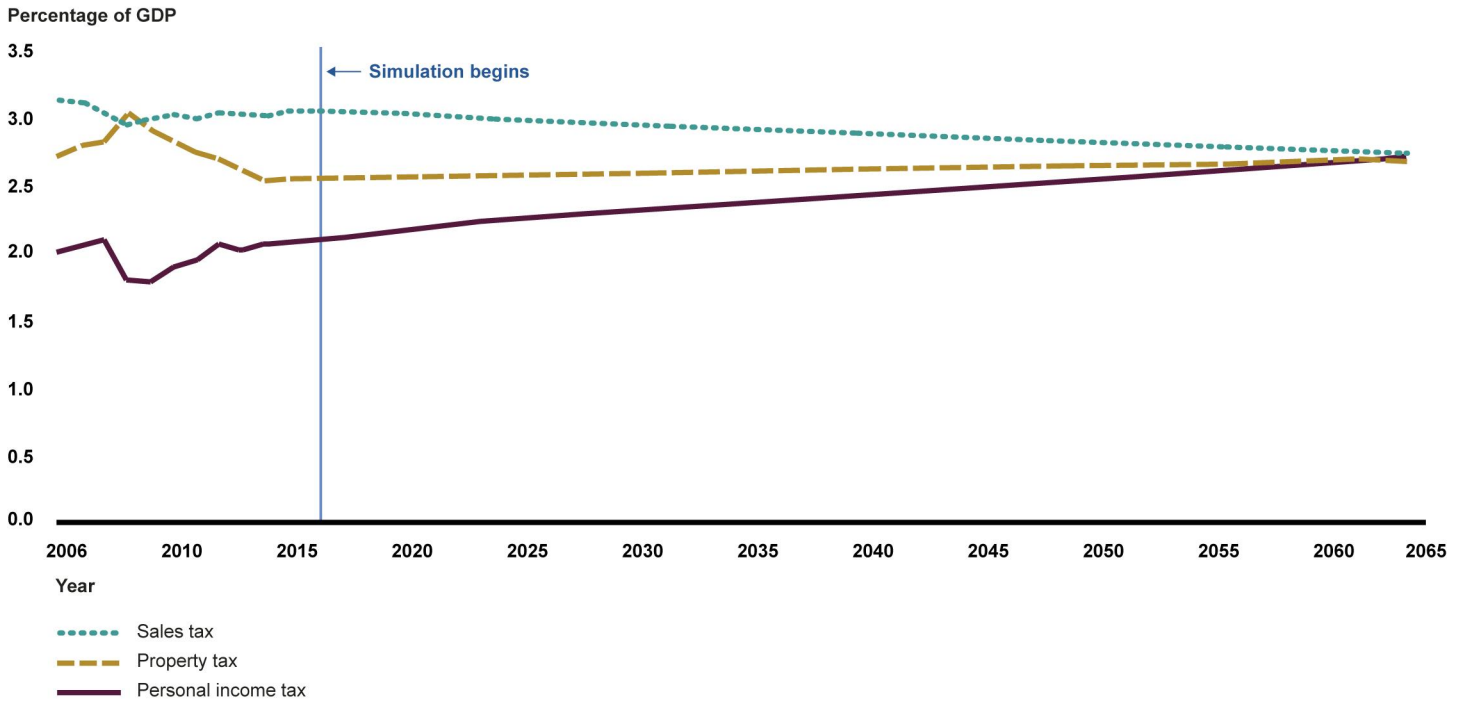
⁹Under PPACA, states may expand Medicaid coverage to non-pregnant individuals under age 65 who have household incomes that do not exceed 133 percent of the federal poverty level. PPACA also imposes a 5 percent income disregard when calculating income, which, in effect, raises this income limit to 138 percent of the federal poverty level. States that implement this expansion receive an increased federal match, starting at 100 percent in 2014, gradually decreasing to 90 percent in 2020. 42 U.S.C. §§1396a(a)(10)(A)(i)(VIII), 1396a(e)(14)(I), 1396d(y). As of October 2016, 31 states had expanded their Medicaid programs. See The Henry J. Kaiser Family Foundation "Status of State Action on the Medicaid Expansion Decision," updated October 14, 2016, and accessed November 15, 2016, <http://kff.org/health-reform/state-indicator/state-activity-around-expanding-medicare-under-the-affordable-care-act/>.

¹⁰PPACA establishes a new type of waiver, state innovation waivers, which the Departments of Health and Human Services and the Treasury may approve to begin in 2017. States may apply to waive certain health insurance exchange requirements established under PPACA and may seek approval of such a waiver in combination with a section 1115 demonstration. In addition to meeting other statutory requirements, state innovation waivers may not be approved unless it is determined they will not increase the federal deficit. Pub. L. No. 111-148, § 1332, 124 Stat. 119, 203-206 (2010), *codified at* 42 U.S.C. § 18052.

¹¹For further information on the future underlying rate of health care cost growth, see GAO, *Patient Protection And Affordable Care Act: Effect on Long-Term Federal Budget Outlook Largely Depends on Whether Cost Containment Sustained*, [GAO-13-281](#) (Washington, D.C.: Jan. 31, 2013).

the other hand, are shown in our simulations to gradually decline as a percentage of GDP during the same period, as shown in figure 4.¹²

Figure 4: Selected State and Local Government Tax Receipts as a Percentage of Gross Domestic Product (GDP)



Sources: GAO calculations using Bureau of Economic Analysis data and GAO simulations, updated December 2016. | GAO-17-213SP

Data, Methodology, and Equation Updates Used in Our 2016 State and Local Model Simulations

This update of the state and local government fiscal model used NIPA data prepared by the BEA as the primary data source, along with other data from BEA and data from the Agency for Healthcare Research and Quality, Board of Governors of the Federal Reserve System, the Bureau of Labor Statistics, the Census Bureau, the Centers for Medicare and Medicaid Services (CMS), CBO, the Office of Tax Analysis, and the Social Security Administration (SSA). These data sources are the same data sources we used for past updates. We used observations on the United States as a whole, so we treat the state and local government sector as a single unit of analysis rather than treating individual state and

¹²The sluggish growth in sales tax receipts relative to the economy reflects the shift in consumer spending toward services and remote sales, both of which are excluded from our proxy for the sales tax base.

local governments as separate units of analysis. We used annual observations through 2015 where available.

Our model simulated the level of receipts and expenditures for the state and local government sector as a whole in future years based on current and historical spending and revenue patterns. Using the same methodology we used in prior updates, we simulated each major category of state and local government receipts and expenditures. Our simulations of key variables were consistent with the growth path for these variables developed by CBO, CMS, and SSA where possible. Otherwise, we developed our own assumptions about the likely future growth path of the variables in our model. Overall, our model assumes current policies remain in place. A detailed explanation of the model is available in appendixes I through IV of *GAO, State and Local Governments: Growing Fiscal Challenges Will Emerge during the Next 10 Years*, [GAO-08-317](#) (Washington, D.C.: January 2008). Updates to the equations used in the model were listed in subsequent reports, including

GAO, State and Local Governments' Fiscal Outlook: December 2015 Update, [GAO-16-260SP](#) (Washington, D.C.: December 2015).

GAO, State and Local Governments' Fiscal Outlook: December 2014 Update, [GAO-15-224SP](#) (Washington, D.C.: December 2014).

GAO, State and Local Governments' Fiscal Outlook: April 2013 Update, [GAO-13-546SP](#) (Washington, D.C.: April 2013).

GAO, State and Local Governments' Fiscal Outlook: April 2012 Update, [GAO-12-523SP](#) (Washington, D.C.: April 2012).

GAO, State and Local Governments' Fiscal Outlook: April 2011 Update, [GAO-11-495SP](#) (Washington, D.C.: April 2011).

GAO, State and Local Governments' Fiscal Outlook: March 2010 Update, [GAO-10-358](#) (Washington, D.C.: March 2010).

GAO, State and Local Fiscal Challenges: Rising Health Care Costs Drive Long-term and Immediate Pressures, [GAO-09-210T](#) (Washington, D.C.: November 19, 2008).

State and Local Government Revenues

We simulated the future growth paths of the five types of state and local government revenues: tax receipts, contributions to government social insurance, income on financial assets, transfer receipts, and the surplus or deficit from government enterprises. We updated some of the equations we used to simulate tax receipts to maintain internal consistency and reflect the historical relationships in the revised NIPA data (see table 1). The equations we used to simulate the other types of revenues are the same equations we used in our prior reports.

Table 1: Estimates of historical relationships used to simulate state and local government tax receipts

Tax or tax base	Simulation approach	Estimated historical relationship
State personal income tax receipts	We simulated real state personal income tax receipts using the estimated historical elasticity of these receipts with respect to real taxable personal income, while also controlling for real federal capital gains tax receipts. We did not adjust state personal income tax receipts for policy changes, as we have done in past years, because we determined that outliers in the policy change data in recent years made it unreliable for this purpose.	Our estimated elasticity of real state personal income tax receipts with respect to real taxable personal income changed from 1.25 to 1.24.
State and local general sales tax base, personal consumption expenditures less food, services, and electronic and mail-order sales	We simulated the real general sales tax base—real personal consumption expenditures less food, services, and electronic and mail order sales—using the estimated historical elasticity with respect to real wages and salaries.	Our estimated elasticity of the sales tax base—personal consumption expenditures less food, services, and electronic and mail order sales—with respect to real wages and salaries was 0.91, the same as last year’s estimate.
State and local sales tax receipts other than general sales tax receipts	We simulated real state and local sales tax receipts other than general sales tax receipts using the estimated historical elasticity of these receipts with respect to real total income from wages and salaries.	Our estimated elasticity of real state and local sales tax receipts other than general sales tax receipts with respect to real total income from wages and salaries was 0.87, the same as last year’s estimate.
Real state and local property tax base, the real market value of real estate and other property outstanding excluding business equipment	We simulated the real property tax base—the real market value of real estate and other property outstanding excluding business equipment—using the estimated historical elasticity with respect to real gross domestic product.	Our estimated elasticity of the real property tax base—the real market value of real estate and other property outstanding excluding business equipment—with respect to real gross domestic product was 1.05, the same value as in the prior update.

Source: GAO analysis. | GAO-17-213SP

State and Local Government Expenditures

We simulated the future growth paths of the five types of state and local government expenditures: consumption expenditures, transfer payments to persons (social benefits), interest paid on outstanding state and local government debt, subsidies, and purchases of fixed and nonproduced assets. We updated some of the equations we used to simulate the interest paid on outstanding state and local government debt to maintain internal consistency and reflect the revised NIPA data (see Table 2). The equations we used to simulate the other types of expenditures are the same equations we used in our prior reports.

Table 2: Updated estimates of historical relationships used to simulate state and local government interest paid on outstanding debt

Interest rate or debt type	Simulation approach	Estimated historical relationship
Annual interest rate on state and local government 20-year general obligation bonds	We simulated the annual interest rate on state and local government 20-year general obligation bonds using the historical relationship between this rate, the lagged value of this rate, and the annual yield on 10-year Treasury notes.	Our estimate of the change in the annual interest rate on state and local government 20-year general obligation bonds associated with a 1 percentage point increase in the annual yield on 10-year Treasury notes was 0.39, the same as last year's estimate. Our estimate of the change in the annual interest rate on state and local government 20-year general obligation bonds associated with a 1 percentage point increase in the prior year's rate was 0.48, the same as last year's estimate.
Short term state and local government debt outstanding	We simulated short term state and local government debt outstanding using the estimated historical relationship between short term state and local government debt issuance as a fraction of gross domestic product and the change in state and local government net saving as a fraction of gross domestic product, controlling for years with unusual amounts of short term debt issuance.	Our estimate of the change in short term state and local government debt issuance as a fraction of gross domestic product associated with a one unit increase in the change in net saving as a fraction of gross domestic product remained -0.20, the same value as in the prior update.
Medium and long term state and local government debt outstanding	We simulated medium and long term state and local government debt outstanding using the estimated historical relationship between medium and long term debt issuance as a fraction of the gap between state and local government gross investment and net purchases of nonproduced assets and federal investment grants and changes in the interest rate on state and local government 20-year general obligation bonds.	Our estimate of the change in medium and long term debt issuance as a fraction of the gap between state and local government gross investment and net purchases of nonproduced assets and federal investment grants associated with a one percentage point change in the change in state and local government 20-year general obligation bonds changed from -0.077 to -0.079.
Outstanding federal government loans to state and local governments	We simulated outstanding federal government loans to state and local governments using the estimated historical elasticity of real outstanding federal government loans to state and local governments with respect to real gross domestic product.	Our estimated elasticity of outstanding federal government loans to state and local governments using the estimated historical elasticity of real outstanding federal government loans to state and local governments with respect to real gross domestic product changed from -2.45 to -2.49.

Source: GAO analysis. | GAO-17-213SP

We conducted our work for this model update from August 2016 to December 2016 in accordance with all sections of our Quality Assurance Framework that are relevant to our objectives. The framework requires that we plan and perform the engagement to obtain sufficient and appropriate evidence to meet our stated objectives and to discuss any limitations in our work. We believe that the information and data obtained

and the analysis conducted provide a reasonable basis for any findings and conclusions.

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Appendix I: Accessible Data

Data Table for Figure 1: State and Local Simulated Operating Balance Measure, as a Percentage of Gross Domestic Product (GDP). Fig01_5_v4_101098.tif

Year	Percentage of GDP
2006	-0.5
2007	-0.6
2008	-1.3
2009	-1.9
2010	-1.5
2011	-1.3
2012	-1.1
2013	-1
2014	-0.8
2015	-0.7
2016	-1.2
2017	-1.4
2018	-1.4
2019	-1.4
2020	-1.4
2021	-1.4
2022	-1.4
2023	-1.4
2024	-1.4
2025	-1.4
2026	-1.4
2027	-1.4
2028	-1.4
2029	-1.3
2030	-1.3
2031	-1.3
2032	-1.3
2033	-1.3
2034	-1.3
2035	-1.3
2036	-1.2
2037	-1.2
2038	-1.2
2039	-1.1

2040	-1.1
2041	-1
2042	-1
2043	-0.9
2044	-0.9
2045	-0.8
2046	-0.8
2047	-0.7
2048	-0.7
2049	-0.6
2050	-0.5
2051	-0.5
2052	-0.4
2053	-0.4
2054	-0.3
2055	-0.3
2056	-0.2
2057	-0.2
2058	-0.1
2059	0
2060	0
2061	0.1
2062	0.1
2063	0.2
2064	0.3
2065	0.3

Figure 2 State and Local Government Action Required to Maintain Balance (Expenditure Reductions, as a Percentage of GDP)

Year	GAO Simulation	Maintain Balance
2006	14.5	14.5
2007	14.8	14.8
2008	15.3	15.3
2009	16.4	16.4
2010	15.9	15.9
2011	15.3	15.3
2012	14.8	14.8

2013	14.5	14.5
2014	14.3	14.3
2015	14.4	14.4
2016	14.5	13.3
2017	14.4	13.1
2018	14.4	13.1
2019	14.5	13.1
2020	14.5	13.2
2021	14.5	13.2
2022	14.6	13.3
2023	14.6	13.3
2024	14.6	13.4
2025	14.6	13.4
2026	14.6	13.4
2027	14.6	13.4
2028	14.6	13.4
2029	14.5	13.4
2030	14.5	13.4
2031	14.5	13.4
2032	14.6	13.5
2033	14.6	13.5
2034	14.5	13.5
2035	14.5	13.5
2036	14.5	13.5
2037	14.5	13.6
2038	14.4	13.6
2039	14.4	13.6
2040	14.3	13.6
2041	14.3	13.6
2042	14.2	13.6
2043	14.2	13.6
2044	14.1	13.6
2045	14.1	13.7
2046	14	13.7
2047	14	13.7
2048	13.9	13.7
2049	13.9	13.7
2050	13.9	13.7

2051	13.8	13.7
2052	13.8	13.8
2053	13.7	13.8
2054	13.7	13.8
2055	13.7	13.8
2056	13.6	13.8
2057	13.6	13.8
2058	13.5	13.8
2059	13.5	13.9
2060	13.5	13.9
2061	13.4	13.9
2062	13.4	13.9
2063	13.3	13.9
2064	13.3	13.9
2065	13.3	13.9

Data Table for Figure 3: Health and Nonhealth Expenditures of State and Local Governments,

Year	Health care expenditures	Non-health care expenditures
2006	2.9	10.7
2007	3	11
2008	3.2	11.3
2009	3.5	11.6
2010	3.6	11.1
2011	3.6	10.5
2012	3.5	10
2013	3.6	9.7
2014	3.7	9.5
2015	3.9	9.5
2016	4.1	9.4
2017	4.2	9.4
2018	4.3	9.3
2019	4.3	9.3
2020	4.4	9.3
2021	4.4	9.3
2022	4.5	9.3
2023	4.5	9.3
2024	4.6	9.2

2025	4.7	9.2
2026	4.7	9.1
2027	4.7	9.1
2028	4.7	9
2029	4.7	9
2030	4.8	8.9
2031	4.8	8.8
2032	5	8.8
2033	5	8.7
2034	5.1	8.6
2035	5.1	8.6
2036	5.1	8.5
2037	5.2	8.4
2038	5.2	8.3
2039	5.3	8.3
2040	5.3	8.2
2041	5.4	8.1
2042	5.4	8
2043	5.5	8
2044	5.5	7.9
2045	5.5	7.8
2046	5.6	7.7
2047	5.6	7.6
2048	5.7	7.6
2049	5.7	7.5
2050	5.8	7.4
2051	5.8	7.4
2052	5.8	7.3
2053	5.9	7.2
2054	5.9	7.2
2055	6	7.1
2056	6	7
2057	6	7
2058	6.1	6.9
2059	6.1	6.9
2060	6.1	6.8
2061	6.2	6.8
2062	6.2	6.7

2063	6.2	6.6
2064	6.3	6.6
2065	6.3	6.5

Data Table for Figure 4: Selected State and Local Government Tax Receipts, as a Percentage of GDP

Year	State/local government income tax receipts/GDP (%)	State/local government property tax receipts/GDP (%)	State/local government sales tax receipts/GDP (%)
2006	1.993	2.706	3.116
2007	2.047	2.789	3.101
2008	2.086	2.811	3.022
2009	1.800	3.018	2.940
2010	1.785	2.907	2.980
2011	1.887	2.830	3.007
2012	1.945	2.737	2.988
2013	2.054	2.689	3.026
2014	2.017	2.608	3.012
2015	2.059	2.532	3.009
2016	2.070	2.545	3.044
2017	2.085	2.548	3.042
2018	2.100	2.551	3.036
2019	2.117	2.553	3.029
2020	2.139	2.555	3.025
2021	2.161	2.557	3.018
2022	2.183	2.560	3.011
2023	2.202	2.562	3.003
2024	2.220	2.564	2.994
2025	2.235	2.567	2.985
2026	2.252	2.569	2.977
2027	2.263	2.572	2.970
2028	2.274	2.575	2.964
2029	2.284	2.577	2.957
2030	2.295	2.580	2.951
2031	2.305	2.583	2.945
2032	2.316	2.585	2.938
2033	2.327	2.588	2.932
2034	2.338	2.591	2.926
2035	2.349	2.593	2.919

2036	2.359	2.596	2.913
2037	2.371	2.599	2.907
2038	2.382	2.601	2.900
2039	2.394	2.604	2.894
2040	2.406	2.607	2.887
2041	2.417	2.610	2.881
2042	2.429	2.612	2.874
2043	2.441	2.615	2.868
2044	2.453	2.618	2.861
2045	2.465	2.621	2.855
2046	2.477	2.624	2.849
2047	2.489	2.626	2.842
2048	2.501	2.629	2.836
2049	2.513	2.632	2.829
2050	2.526	2.635	2.823
2051	2.537	2.637	2.817
2052	2.549	2.640	2.811
2053	2.561	2.643	2.805
2054	2.573	2.645	2.799
2055	2.585	2.648	2.793
2056	2.597	2.651	2.787
2057	2.609	2.654	2.781
2058	2.622	2.656	2.775
2059	2.634	2.659	2.769
2060	2.646	2.662	2.763
2061	2.659	2.664	2.757
2062	2.671	2.667	2.751
2063	2.684	2.670	2.746
2064	2.696	2.673	2.740
2065	2.709	2.675	2.734
