Third District State Budgets in the Coronavirus Recession

Delaware, New Jersey, and Pennsylvania are in for a struggle as they try to balance their budgets during this unprecedented economic cycle.

BY ADAM SCAVETTE

State and local governments across the United States are bracing for financial hardships due to the coronavirus pandemic. As the nation endures the extended economic impact of the pandemic, including the various mandated shutdowns of nonessential businesses, now is a good time to understand the basics of state budgets as well as how they change over the business cycle. In addition to exploring the effects of the anticipated recession on state budgets and the federal government’s efforts to aid the states, this article examines the expected nuances of this recession. It then takes a specific look at the Third Federal Reserve District states (Delaware, New Jersey, and Pennsylvania) to assess their preparedness to weather this economic downturn.

Fundamentals of State Budgets

As we witness the responses of individual states to the coronavirus, with daily updates from governors and state public health commissioners, it is apparent that state governments are vital components of the nation’s public sector. Indeed, when defense spending is not counted, state and local governments have historically undertaken more spending on public goods and services than has the federal government.¹ In 2018, total federal expenditures, excluding defense spending and grants to state and local government, was $3.2 trillion, whereas total state and local expenditures was $3 trillion (15.6 percent and 14.6 percent of gross domestic product, respectively) (Figure 1).² State expenditures support education, infrastructure,
health, hospitals, and public welfare (for example, Medicaid), among other items. State governments fund these expenditures with intergovernmental revenue (that is, transfers from the federal government) and tax receipts (sales, individual income, and corporate income), among other sources (Figure 2).

When the country faces an economic downturn, revenues shrink and expenditures rise, straining state budgets from opposite directions. If many consumers lose their jobs and spend less on goods and services, states receive less revenue from income and sales taxes. Simultaneously, demand for state government services such as unemployment insurance and Medicaid increase, raising overall expenditures. When expenditures exceed revenues, state governments face a budget gap, which they must address in the near term: Unlike the federal government, most states are required to balance their budgets from year to year.³

Aside from federal aid that states may receive during national downturns, states can address budget gaps by increasing revenue (for example, by raising taxes), cutting expenditures, drawing money from a rainy day fund, or borrowing with municipal bonds.⁴ Tax hikes and spending cuts in the face of a recession may exacerbate the downturn or delay the recovery as consumers are further strained financially and public service jobs are eliminated. Although states can draw from rainy day funds, which are special reserve funds generated from surplus budget years specifically to aid during downturns, the level of reserves that each state may have at any given time varies significantly.⁵ Lastly, if allowed by its constitution, a state may issue debt in order to balance its budget. Municipal debt is issued on bond markets and rated by independent agencies according to the assessed future solvency of the issuing state, so states pay different interest rates for the money they borrow.⁶

What Happened Last Time
During the Great Recession of 2008–2009 and the subsequent recovery, nearly every state in the nation faced a budget gap as respective state revenues declined and expenditures increased (mostly driven by increased enrollments in Medicaid).

Despite the $144 billion in fiscal relief funds to state and local governments from the American Recovery and Reinvestment Act of 2009,⁷ many states addressed their remaining budget gaps with tax increases and cuts in government services. In the three fiscal years following the start of the recession (2009–2011), 40 states enacted tax or fee hikes, 34 reduced spending on K-12 education, 43 reduced spending on college education, 31 reduced health care spending, and 29 reduced expenditures for services to the elderly and disabled (Figure 3).⁸ The effect of these state spending cuts is perhaps most clear in state government employment numbers in the immediate recovery years.⁹ From January 2009 through January 2013, state governments collectively shed 177,000 jobs (a 3.4 percent drop), and even as of February 2020, state government employment had not recovered to its peak level (Figure 4).¹⁰

What Makes the Coronavirus Recession Different
While other recessions in the past few decades have forced states to reckon with budget crises solely due to the effects of...
a slowing economy, the coronavirus recession will also force states to fund the battle against the virus (for example, through hospitals, healthcare, infrastructure, and police). This means that expenditures will increase far more than during previous recessions, especially for states particularly hard hit by the coronavirus in terms of hospitalizations and deaths, such as New Jersey and New York.\footnote{Fiscal Preparedness Among Third District States}

Beyond the health-related costs of the virus, we can identify areas that are more likely to suffer during recessions based on their industry mix.\footnote{How the Federal Government Aids States} A recent analysis by Moody’s has identified the most at-risk industries for this coronavirus recession: leisure and hospitality;\footnote{Leisure and Hospitality Stands Out} transportation, and employment services. Therefore, states and local areas that have a high share of employment in these industries should expect to see larger downturns than the national average, and these effects will stress public budgets.\footnote{FIGURE 4}

Although leisure and hospitality represents 11 percent of national employment,\footnote{Sectoral change in employment, 2001–2020; 2001 = 100} the number of jobs in the industry is up 40 percent since the end of the 2001 recession,\footnote{FIGURE 5} whereas overall employment has grown less than 20 percent (Figure 5). Because restaurants, the arts, and entertainment venues are typically enjoyed in person, we can expect the coronavirus recession to have a harsh effect on this economic sector. The pandemic’s lingering effect on future consumer demand for hospitality services is uncertain, and is perhaps only comparable to the impact on the airline and travel industry after the 9/11 terrorist attacks.\footnote{Change in state government employment, 2009–2020; January 2009 = 100}

The attacks resulted in a 32 percent annual reduction in air travel in September 2001 and a 12 percent reduction the following year, most likely because consumers continued to avoid flying. How badly will the pandemic affect the hospitality industry? A clue comes from an early April 2020 survey by the National Restaurant Association, which found that, even in the midst of federal government assistance, “15 percent of U.S. restaurants have permanently closed or are likely to in the next two weeks.”\footnote{FIGURE 4}

How the Federal Government Aids States

Although the federal government has spent trillions of dollars trying to stabilize the economy, it has imposed limits on how state and local governments may use this money. Notably, the $2 trillion Coronavirus Aid, Relief, and Economic Security (CARES) Act, which Congress enacted in late March 2020, included, in addition to direct aid to American workers and assistance for small businesses via the Paycheck Protection Program,\footnote{How the Federal Government Aids States} a $150 billion Coronavirus Relief Fund for payments to state and local governments.\footnote{Leisure and Hospitality Stands Out} However, this relief fund is to be used only for expenditures related to the public health emergency, and it cannot be used to cover expenditures that were already accounted for in state budgets before the date of the act’s passage (March 27, 2020). Although the fund will aid in covering unforeseen expenditures related to the coronavirus over the remainder of 2020, it cannot directly\footnote{Leisure and Hospitality Stands Out} cover the revenue shortfalls and expenditure increases resulting from slowing state economies due to the mandated shutdowns.\footnote{Leisure and Hospitality Stands Out} (To address this limitation, in early April 2020 the Federal Reserve, under credit protection from the Department of the Treasury, instituted the Municipal Liquidity Facility [MLF] to buy up to $500 billion in short-term debt directly from state and local governments.\footnote{Fiscal Preparedness Among Third District States})

Fiscal Preparedness Among Third District States

In order to analyze the preparedness of the Third District states to weather the budget gaps that they are certain to incur in this fiscal year and perhaps beyond, we examine their rainy day funds, their credit ratings, and results from a budget stress test used to analyze the effects of the coronavirus on respective state public finances.

State rainy day funds may be inadequate for this downturn. A recent Tax Foundation Analysis found that the median rainy day fund balance was 8 percent of state general fund expenditures, whereas it is recommended that states carry 15 percent in order to withstand revenue shortfalls associated with a moderate recession.\footnote{Leisure and Hospitality Stands Out} At the start of fiscal year 2020,
all Third District state rainy day funds were below the median. Although Delaware’s rainy day fund stood at 5.4 percent of state general fund expenditures, Pennsylvania and New Jersey tied, at 1 percent, for the lowest nondepleted funds in the country (Figure 6).25

Another means of short-term funding relief for some states is the issuance of debt to financial markets.26 Although the MLF was established to aid state borrowing efforts by purchasing short-term debt from state governments, borrowing costs vary across states according to perceived risk.27 Commonly, general obligation debt is issued through financial markets and rated by independent rating agencies (for example, Moody’s, Standard & Poor’s, and Fitch), which base their ratings on a state’s ability to repay debt and on the state’s economic health. A lower rating for general obligation debt results in a higher interest rate for a state, which raises the cost of borrowing and ultimately results in a higher burden for that state’s taxpayers.

As of June 2020 (Figure 7), Delaware had an AAA rating and was one of several states that paid the lowest borrowing costs for municipal debt issuers in the nation. Pennsylvania had an A+ rating, forcing it to pay 0.5 percentage point more than states like Delaware for interest on 10-year debt. New Jersey stood among the worst-rated municipal borrowers in the nation with an A- rating, forcing it to pay 0.9 percentage point more than AAA municipal borrowers.

When Moody’s Analytics ran its stress-test model in April,28 it found that the coronavirus shock will have widely disparate effects on state public finances, due to states’ varying levels of fiscal preparedness, employment industry mix, and tax revenue streams.29 The analysis resulted in an estimated tax revenue shortfall through fiscal year 2021 of 5.6 percent for Pennsylvania, 10.6 percent for Delaware, and 25.4 percent for New Jersey (Figure 8).30 According to the model, Pennsylvania’s tax revenues appear to be more resilient than in most states, largely due to its heavy concentration of employment in education and healthcare.31 However, due to New Jersey’s reliance on two volatile revenue streams—a progressive

![Figure 6](https://example.com/image6.png)

**FIGURE 6**

State Rainy Day Funds May Be Inadequate for This Downturn
Rainy day fund as percentage of state general fund expenditures, start of FY 2020

![Figure 7](https://example.com/image7.png)

**FIGURE 7**

Borrowing Costs Vary Across States According to Perceived Risk
A lower rating generally means a higher interest rate for the state.


Note: The AAA 10-Year General Obligation Interest Rate was 0.88% that day.
personal income tax and a large employment base in hospitality and tourism—the state’s tax revenues stand to be among the worst affected.

In many states, the coronavirus recession will likely exacerbate one particular ongoing fiscal concern: the management of pension and health benefit funds for retired state workers and teachers. When crafting their annual budgets, states may defer payments into these funds in order to balance their budgets, inflating unfunded pension liabilities over time. Due in part to these deferrals, New Jersey and Pennsylvania have both seen their unfunded pension liabilities balloon since the Great Recession, with the former’s pension outlook ranking among the worst in the country. Perceived fiscal irresponsibility reflected by large unfunded pension liabilities in Democratic-controlled states such as New York, New Jersey, and Illinois has resulted in a politicized public debate over whether any further federal aid to states to alleviate the fiscal shock of the coronavirus would be a “blue state bailout.”

Final Thoughts
State governments will undoubtedly face difficult times as the coronavirus recession concludes and recovery begins. These governments will need to make tough decisions to address budget gaps resulting from tax revenue shortfalls and expenditure increases. We must understand the dynamics of state government budgets and the role of state government services in communities across the nation if we are to evaluate how the federal government might best address states’ needs through further legislation. Although states and municipalities around the country are preemptively addressing these budget concerns by cutting expenditures, these cuts and reduced service levels may persist for years beyond this current crisis, as occurred during the last business cycle. Moreover, state fiscal austerity in the wake of the Great Recession is estimated to have worsened the effects of the recession and slowed our nation’s last recovery considerably, making it a reaction worth avoiding.

How Will States Pass Their Fiscal Stress to Local Governments?
Local governments will face their own fiscal hurdles as they wade through a recession and lean on heavily distressed state governments for relief. Local governments receive 32 percent of their revenues from state transfers, so they are particularly vulnerable to state expenditure cuts as states pass through their fiscal stress. Furthermore, aside from the largest jurisdictions, local governments must rely on states to pass on federal aid associated with the coronavirus-fighting efforts. The CARES Act, which allocates $150 billion for state and local governments, directly allocates local funds only for jurisdictions with 500,000 or more residents, with the rest allocated to the states to relieve smaller jurisdictions. Furthermore, the Federal Reserve’s MLF will directly buy municipal debt only from counties with a population of at least 500,000 and cities with a population of at least 250,000, leaving most jurisdictions without direct access to short-term funding relief. Unlike states facing fiscal strains, local governments may file for Chapter 9 bankruptcy protection under federal law, as Detroit did in 2013. However, governing state law must permit municipal governments to file for bankruptcy in order for them to do so. In part because only about half of the states authorize municipal governments to file for bankruptcy, local governments have rarely succeeded in declaring bankruptcy over the past 20 years.

The requirement that a state balance its budget is either explicitly stated in the state constitution, interpreted from the state constitution, or effectively enforced due to political culture. For more information, see National Conference of State Legislatures (2010).

States may also use less traditional one-off actions, such as deferring pension obligations, diverting funds from an unemployment insurance trust fund, or extending the fiscal year, as New Jersey announced its intention to do for the 2020 fiscal year.

Most of these funds were allocated to Medicaid and education funds. For more information, see Economic Policy Institute (2009).

By law, four states (Arizona, Colorado, Indiana, and Nebraska) prohibit debt and 12 others require voter approval of debt supported by general tax revenue. See McNichol et al. (2020).

5 See Cammenga (2020).

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8 See Gordon (July 2012).

9 See Pome and Saxon (2019).


12 See Scavette (2019).

13 This includes NAICS sectors 71 (arts, entertainment, and recreation) and 72 (accommodation and food services).

14 A recent analysis by Brookings identified three metro areas in the Third District (Atlantic City–Hammondton, NJ; Ocean City, NJ; and East Stroudsburg, PA) among the top 15 metro areas with the largest share of high-risk employees. For more information, see Muro et al. (2020).


16 See https://fred.stlouisfed.org/series/USLAH.

17 See Clark et al. (2009).

18 See Gangitano (2020).

19 The Paycheck Protection Program (PPP) indirectly benefits state finances: If businesses that take these forgivable loans keep employees on their payrolls, and if those employees would otherwise have been laid off, the states will save money on unemployment insurance (UI) benefits. Furthermore, the five states that do not tax UI benefits (two of which are Pennsylvania and New Jersey) will see an even larger positive fiscal effect, because, in addition to spending less on UI benefits, they will receive income taxes from those otherwise-laid-off employees—taxes paid out of the PPP funds used as wages. For more information on which states tax unemployment benefits, see Bishop-Henchman and Saddock (2013).


21 Walczak (2020) notes that “much of the funding already provided under the CARES Act, while not directly available to backfill revenue losses, is nonetheless fairly fungible, freeing up states’ existing revenues to meet other needs.”

22 Furthermore, a follow-up bill to CARES, the Paycheck Protection Program and Health Care Enhancement Act, passed in late April 2020, did not include aid to state and local governments. For more information, see U.S. Congress (2020).

23 See Board of Governors of the Federal Reserve System (2020).

24 See Walczak and Cammenga (2020).

25 Illinois and Kansas had nearly empty reserve funds.

26 See footnote 6 for limits on state-level debt financing.

27 In order to prevent outbidding regular investors, the Federal Reserve’s MLF will charge penalty rates to borrowers tapping the facility. The penalty rates charged on individual debt are scaled based on ratings from nationally recognized statistical rating organizations (NRSROs). For more information, see Federal Reserve Bank of New York (2020).

28 See White et al. (2020).

29 Run in early April 2020, the Moody’s model assumes a deep recession in the first half of 2020, with a peak unemployment rate of 13 percent in the second quarter of 2020, and a peak-to-trough real gross domestic product decline of 10 percent.

30 This does not take into consideration anticipated additional Medicaid expenditures, which increase during recessionary periods.

31 Although both of these industries have been less sensitive to recessions, this pandemic may affect them more than did previous recessions. The cancellation of elective surgeries and the associated coronavirus costs have led to widespread stress among U.S. hospitals. Furthermore, the higher-education sector is likely to struggle due to reduced enrollment, reduced state aid, and declines in endowment investments. For more information, see Hook and Kuchler (2020) and Forroohar (2020).
Takes Additional Actions to Provide up to $2.3 trillion in Loans to Support American Jobs Plan,” November 24, 2009.


References


