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World War II to the Current Crisis**

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State Government Finances: World War II to the Current Crisis

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Abstract

This article will explore the extent, causes, and proposed solutions of the current fiscal crisis from a historical perspective of state finance. Although the current fiscal crisis is severe, it becomes more difficult to assess unless one has a more complete understanding of the historical changes that have occurred in state revenue streams. This article will address the role of major revenue sources in the context of the current slowdown and also investigate how reliance on various revenue sources has changed over the past 50 years. The role of non-traditional revenue sources, such as state lotteries and casino gambling, will also be discussed. The article further addresses various fiscal institutions, such as tax and expenditure limitation laws, rainy day funds, and balanced budget rules, and explores the role each play in state budgeting and finance.

Keywords State budgets, public finance, budget crisis
JEL Codes: H71, H72

1. Introduction

States are facing the most severe budget crises in the post-World War II era. The National Conference of State Legislators (NCSL) estimates that aggregate state budget deficits will be in the range of \$20 to \$30 billion for FY 2003, and possibly as large as \$78 billion in FY 2004. More than half of the states are projecting a budget deficit in excess of 5 percent of general fund revenue for FY 2004, and one in four states is forecasting a deficit greater than 10 percent. While 35 states were forced to reduce their budgets after enactment by \$4.5 billion in FY 1992, the National Governors Association (NGA) is reporting that more than 37 states have reduced their FY 2003 budgets by \$14.5 billion. The NGA reports that a historically high 19 states proposed a negative growth budget for FY 2004.

This article will explore the extent, causes, and proposed solutions of the current fiscal crisis from a historical perspective of state finance. Although the current fiscal crisis is severe, it becomes more difficult to assess unless one has a more complete understanding of the historical changes that have occurred in state revenue streams. This article will address the role of major revenue sources in the context of the current slowdown and also investigate how reliance on various revenue sources has changed over the past 50 years. The role of non-traditional revenue sources, such as state lotteries and casino gambling, will also be discussed. The article further addresses various fiscal institutions, such as tax and expenditure limitation laws, rainy day funds, and balanced budget rules, and explores the role each play in state budgeting and finance.

2. A History of State Finances

2.1 Traditional Revenue Sources

Although revenue generated from taxation is a major source of funds for state governments, states receive revenue from a variety of sources. As Table 1 illustrates, state governments collected nearly \$1.2 trillion in revenue during FY 2001, with just over 47 percent coming from own-source taxes. The remaining sources of revenue, listed in descending order of relative importance, include intergovernmental revenue (the bulk of which is federal grants), insurance trust revenue, revenue from user charges and fees, and revenue from state-operated liquor and utility establishments.¹ The two largest sources of revenue, taxes and intergovernmental grants, accounted for nearly 75 percent of state revenue in FY 2001.

[Table 1 about here]

In terms of own-source tax revenue, the data in the column entitled "percent of total revenue" show the importance of various taxes as a share of total revenue, and the data in the column entitled "percent of tax revenue" illustrate the significance of these same taxes as a share of tax revenue. For instance, while individual income taxes accounted for 17.6 percent of total state revenue in FY 2001, they accounted for more than 37 percent of all tax revenue.

As the data demonstrate, nearly 70 percent of all state tax revenue comes from two sources – individual income taxes and general sales taxes. A general sales tax is applicable to all sales of goods and/or services (with perhaps an exemption for food). A selective sales tax is applied to (often in addition to the general sales tax) the sale of specific items such as alcohol, tobacco, motor fuels, and pari-mutual wagering. Selective sales tax are also called excise taxes.

¹ Intergovernmental revenue is revenue received from other governments, such as shared tax revenue and grants. Insurance trust revenue primarily includes contributions, premiums, and payroll taxes of employers and employees that participate in public retirement programs. User charges include fees or payments on such services as public school lunches, public hospitals, highways, parking, and sanitation.

If one defines sales taxes broadly to include both general and selective sales taxes, then individual income and sales taxes account for slightly more than 83 percent of state tax revenue, and nearly 40 percent of total state revenue. The remaining sources of tax revenue – license taxes, corporate income taxes and other taxes – account for 17 percent of tax revenue and 8 percent of total revenue.²

State governments have historically relied on individual income and the sale of goods and services as primary tax bases. As Table 2 indicates, of the 43 states that currently utilize some form of an individual income tax, nearly three-fourths had their tax in place before World War II. Apart from the numerous rate and base changes that occurred, the most recent major changes in state individual income taxes occurred between 1961 and 1976 when 11 states began taxing personal income for the first time. Connecticut was the last state to make significant changes to their individual income tax when, in 1992, the state began collecting revenue from the taxation of wage and salary income in addition to previously taxed interest and dividend income.

[Table 2 about here]

Along with the individual income tax, state governments have historically relied on corporate income as a source of funds. Of the 45 states that currently tax corporate income, more than 80 percent initially adopted the tax prior to World War II, and the last states to tax this base were Ohio and Florida in 1971. Revenue generated from the taxation of corporate income presently accounts for less than 6 percent of state tax revenue and has never accounted for more than 9 percent. In addition, although gasoline tax revenue was not explicitly listed in Table 1, revenue from the taxation of motor fuels was a large component of state tax revenue, especially

² License taxes includes revenue generated from the sale such items as liquor licenses, hunting and fishing licenses, and motor vehicle licenses. Motor vehicle license taxes account for about half of all license taxes.

before the mid-1970s. All 50 states currently tax the sale of gasoline and only Alaska and Hawaii did not have a gasoline tax in place before 1930.

The final tax base noted in Table 2, the general sales tax, is the newest major base to be added to states' portfolio of funding sources. Of the 45 states who currently impose a general sales tax, 21 were adopted in the post-World War II era. The adoption pattern of the general sales tax falls primarily into two distinct time periods – a first wave of states that adopted the tax during the Great Depression and a second wave that adopted the tax to help advance the expansion of government services that occurred in the 1960s.

While the data in Table 1 show that individual income taxes and general sales taxes are currently the largest components of state tax revenue, the relative importance of various taxes has shifted considerably over time. In 1950 for example, revenue from general sales taxes accounted for the largest share of general fund revenue, followed by the motor fuels tax, excise taxes on alcohol and tobacco, the individual income tax, and finally the corporate income tax. The relative importance of major state revenue sources over the period from 1950 to 2001, each measured as a share of general fund revenue, is illustrated in Figure 1.³

[Figure 1 about here]

As Figure 1 shows, the relative importance of federal aid, individual income, and general sales tax revenue has increased considerably over the past 50 years, while revenue generated from the sale of alcohol, tobacco, and motor fuels has diminished in importance. During the 1950s for instance, nearly 30 percent of general fund revenue was derived from alcohol, tobacco, and motor fuels taxes, compared to roughly 6 percent in 2001. The decline in tobacco tax revenue is due in part to individuals becoming more health conscious, and declining motor fuel

³ The share of general fund revenue, as opposed to total revenue, is used since a consistent series of total state revenue is not available prior to 1965.

tax revenue as a share of general fund revenue can be partly attributed to more fuel-efficient automobiles. Another explanation for their diminishing importance is that these taxes are linked to the quantity of goods consumed rather than the price of the goods. As a result, these taxes fail to keep pace with inflation.

The most striking series in Figure 1 are individual income and general sales tax revenue. The importance of individual income tax revenue has risen steady over the past 5 decades and is now the single most important tax base. Climbing from 9 percent of general fund revenue in the early 1950s, revenue from individual income taxes surpassed revenue from general sales taxes in the mid 1990s before reaching its peak of 37 percent of general fund revenue in 2001. While increases in income tax rates and expansions in the income tax base have obviously contributed to the growing importance of this revenue source, the most rapid period of growth in individual income tax revenue occurred between 1960 and the mid 1970s when 10 states initially adopted the tax. However, figure 1 also reveals the growth in income tax revenue during the expansion of the 1990s (when no states adopted personal income taxes) is near the growth during the 1960s and 1970s. Income tax revenue accounted for an increasingly higher percentage of general fund revenue during the economic boom of the 1990s due to rapidly growing salaries and capital gains from stock options and bonuses.

In contrast to the individual income tax, the relative importance of general sales tax revenue has risen at a much steadier rate. At just over 22 percent of general fund revenue in 1950, revenue from general sales taxes now constitutes roughly 32 percent. In fact, the expansion in general sales tax revenue that occurred between 1950 and 1980 appears to have slowed and even declined slightly in the past decade. This trend can be attributed to the move to a more service oriented economy on which general sales taxes are not typically applied.

Federal aid and corporate income taxes have not exhibited such a strong upward or downward trend as the other revenue sources. There is no question, based on Figure 1, that revenue from federal grants has fluctuated more than other revenue sources. However the average revenue obtained via federal grants over the period (24 percent of general fund revenue) is only one to two percent lower than federal grant revenues during the economic boom of the 1990s. Similarly, revenue from corporate income taxes is currently less than 6 percent of general fund revenue and averaged 7.4 percent over the sample period.

2.1.1 Cyclical Variability of Tax Revenues

While historical shifts in the relative importance of revenue sources may seem disconnected from the current crisis and economic downturns in general, the composition of a state's revenue sources has a significant bearing on how revenue streams fluctuate with changes in economic activity. If revenue streams in one state decrease more during downturns than revenue streams in another state, then the state with the more volatile revenue stream would be expected to experience a much more severe fiscal crisis during any given recession than the state with more stable revenues. The amount by which revenue from a specific tax varies with the business cycle is referred to as the cyclical variability of the tax.

Since different sources of tax revenue are derived from different tax bases, each of which react differently to changes in the business cycle, the various sources of revenue for state governments will react differently to business cycle swings. Thus, if the portfolio of state revenues becomes more dependent on a revenue source that has a high cyclical variability, then in most cases the overall portfolio of revenue will also become more sensitive to changes in the

business cycle. Following Holcombe and Sobel (1997), the cyclical variability of a tax is measured by estimating the regression

$$\Delta \ln(Base_t) = \alpha + \beta \Delta \ln(GDP_t) + \varepsilon$$

where $Base_t$ is the tax base (personal income, retail sales, etc.) for a particular tax at time t and GDP_t denotes Gross Domestic Product at time t .⁴ The estimated coefficient (β) is the measure of the cyclical variability of the particular tax base. Since $\Delta \ln(Base_t)$ and $\Delta \ln(GDP_t)$ are the percentage change in the tax base and GDP respectively, β measures the percentage change in the tax base given a percentage change in GDP.⁵ A value of β that is larger than one in absolute value indicates that revenue from a particular tax base is more volatile than aggregate economic activity, while a value smaller than one in absolute value indicates that it is less volatile.

With regard to the measure of cyclical variability in general, the tax base (and thus tax revenue) is procyclical if $\beta > 0$, countercyclical if $\beta < 0$, and independent of the business cycle if $\beta = 0$. Research has revealed that revenue tends to be procyclical for most sources of tax revenue.

Table 3 shows the estimated cyclical variability of several sources of state revenue. With the exception of the motor fuel and liquor tax, all revenue sources are more variable than the business cycle. In the case of the corporate income tax, a one-percentage point decline in GDP will, on average, reduce corporate income tax revenue by more than 3 percentage points.

[Table 3 about here]

⁴ Tax revenue can be used instead of the tax base. However, this requires accounting for discretionary changes in tax policies and tax rates that occur over time.

⁵ Holcombe and Sobel (1997) refer to the estimated slope coefficient in equation (1) as the "short-run elasticity" to distinguish it from the "long-run elasticity" that measures how a particular revenue source grows over time.

General sales tax revenue is considerably more stable when food is part of the tax base. This highlights a general but important theme regarding the variability of revenue – the more broadly a particular tax base is defined, the lower the cyclical variability of the revenue from that base.⁶ The implication of a changing composition of state tax revenue should be very clear at this point -- over the past 50 years states' reliance on motor fuels and alcohol and tobacco revenue have diminished, while reliance on individual income and general sales taxes has expanded. Thus, the typical state's tax portfolio has shifted away from revenue sources that are less cyclical than the economy and toward revenue sources that are more cyclical than the economy. In most cases, the result of this transition is that an ever-growing portion of state revenue is becoming more sensitive to business cycle swings.

2.2 Non-Traditional Revenue Sources

2.2.1 State Lotteries

The first state lottery began in New Hampshire in 1964, and since that time 38 states and the District of Columbia currently have state lotteries, with Tennessee and North Dakota scheduled to begin lottery operations within the next year or two. Lottery sales in the United States totaled \$42 billion in FY 2002, with states collecting over \$13 billion in net lottery revenues.⁷ The primary objective of state lotteries is to generate revenue, and lotteries are seen by proponents and state officials as a voluntary way to raise this revenue. Many states earmark lottery revenue for certain social programs such as education, senior citizen care, and economic

⁶ Although there are a number of strategies that state policymakers may follow to reduce the cyclical variability of tax revenue, which in turn would smooth the overall revenue stream, such a discussion extends beyond the scope of this paper. See Holcombe and Sobel (1997) and Sobel and Wagner (2003) for additional details.

⁷ From the North American Association of State and Provincial Lotteries. Net lottery revenue is gross sales minus prize payouts and other expenses such as retailer commissions, advertising, and general operations.

development. On average, lottery revenue accounts for roughly two to three percent of total state revenue.⁸ FY 2002 lottery sales and start-up dates are shown in Table 4.

[Table 4 about here]

Several reasons have been cited to explain state lottery adoption. First, although lottery revenue is significantly more variable than non-lottery revenues, a low correlation between lottery and non-lottery revenue suggests that the variability in lottery revenue will not destabilize overall revenue.⁹ Thus, lotteries are an attractive means for states to diversify their revenue portfolio. Further research has shown that the first states to adopt lotteries did so independently in response to fiscal pressures, but in later years states have adopted lotteries in response to the fear of lost revenue from lotteries in neighboring states.¹⁰ This may be due to the fact that many states had begun to exhaust their traditional revenue sources and thus began to explore non-traditional sources of revenue. Adopting a non-traditional revenue source is arguably more politically appealing than raising rates on existing taxes or expanding current tax bases.

Using state lotteries as means for raising government revenue has been criticized for several reasons. First, research has shown that lotteries place a greater financial burden on the poor, that is, lower income individuals spend a higher percentage of their income on lottery tickets than higher income individuals.¹¹ While the regressivity of lotteries is also true for sales, excise, and payroll taxes, state governments do not actively promote these activities as they do their lotteries. Second, while states use the earmarking of lottery revenues to justify the existence of lotteries, studies have shown that lotteries do not result in increased expenditures on

⁸ See Clotfelter and Cook (1990) for a discussion on state lotteries and state lottery financing.

⁹ Szakmary and Szakmary (1995).

¹⁰ Alm, McKee, and Skidmore (1993).

¹¹ Clotfelter and Cook (1989, chapter 6).

the targeted source post-lottery adoption.¹² This is because, like many revenue sources, lottery revenues are interchangeable within the state budget. State legislators can simply reduce the total amount of funds budgeted for, say, education by a certain amount and use these funds elsewhere, and then use lottery revenues to bring total education expenditures back to their pre-lottery levels. Finally, the expected return to the player of most lottery games is about 0.50 cents on a \$1 ticket. This payback rate is much lower than on gambling activities such as casino gaming that has an average return of about 0.90 to 0.95 cents. Unlike casino gaming, which is regulated by the state, lotteries are essentially a state-run monopoly. Consumer welfare would certainly be enhanced if the payback rate on lotteries was higher, but this conflicts with the current revenue maximization goal of state lotteries.¹³

2.2.2 Casino Gambling

Casino gaming has become a major industry in the United States over the past two decades. Prior to the late 1980s, casino gaming was legal only in Nevada and Atlantic City, New Jersey. The 1990s saw a marked increase in the number of states that legalized casino gaming. Riverboat casino gaming first began in Iowa and Illinois in 1991 and quickly spread throughout the Midwest. Riverboat gaming now also exists in Indiana, Mississippi, and Missouri. Louisiana and Michigan legalized land-based casino gaming within the last decade.

Annual gaming net revenue (gross wagers minus player winnings) has grown from \$9 billion in 1991 to over \$40 billion in 2001. The casino industry consists of two major parties – Indian tribes and publicly traded private corporations such as Harrah’s Entertainment and Trump Hotels and Casino. The Indian Gaming Regulatory Act (Public Law 100-497) passed in 1988

¹² Spindler (1995) and Garrett (2001).

¹³ Clotfelter and Cook (1989, chapter 11).

allows Indian tribes to own and operate casinos on their reservations. Tribal gaming is now available in 25 states and generates nearly \$13 billion in annual revenue. Corporate casino gaming is available in nine states and generated over \$27 billion in revenue in 2001.

While tribal gaming is available in more states, corporate casino gaming has traditionally been perceived as a more appropriate tool for fostering general economic development through increased employment and tax revenues.¹⁴ The primary reason for this is that states have no power to tax Indian casino revenue because Indian casinos are sovereign entities from the state.¹⁵ While states and Indian tribes do cooperate in regulation and security issues (dictated by state-tribal gaming compacts), the relationship between a tribe and a state is very similar to the relationship between two states – one state generally cannot legally dictate what another state can do.

Corporate casinos, however, are private industries that are taxed and regulated by a state. As seen in Table 5, casino revenues are quite sizeable, making them an attractive revenue source. Most states have a graduated casino revenue tax schedule, with marginal tax rates ranging from about 5 percent to over 50 percent. As with state lotteries, many states earmark their casino tax revenue for social programs, such as education.

[Table 5 about here]

The primary reason that many states have approved corporate casino gaming is that it is seen as a potential tool for economic growth. The greatest perceived benefits are increased employment, greater tax revenue to state and local governments, and growth in local retail sales.

¹⁴ Indian tribes using gaming revenue from their casinos to foster economic development on their reservations. Economic development from corporate casino gaming, however, has the potential to effect a much greater population.

¹⁵ States have negotiated payments from tribes in return for certain services such as security and maintaining and improving highway access to casinos. Also, the current state budget crisis has prompted several states to consider the direct taxation of Indian casino revenue.

Increasing fiscal pressures on state budgets during the 1990-1991 recession, the fear of lost revenue to neighboring states' casinos, and a more favorable public attitude regarding casino gaming have all increased the appeal and acceptance of casinos over the past decade.

3. The Role of Fiscal Institutions

Unlike the federal government, the options available to state governments during periods of fiscal stress are often limited by their institutional structures. The most well known fiscal constraints facing state policymakers are balanced budget laws and tax and expenditure limit laws (TELEs). From the perspective of economic downturns, balanced budget rules and TELEs typically require state policymakers to cut expenditures, increase taxes, or use some combination of both to offset the period of fiscal stress.

Every state, with the exception of Vermont, is subject to some form of balanced budget rule. The Advisory Commission on Intergovernmental Relations (ACIR, 1987) classifies state balanced budget rules into five categories: (1) the governor is required to submit a balanced budget; (2) the legislature is required to adopt a balanced budget; (3) the state may carry forward a budget deficit to be corrected in the next fiscal year; (4) the state may not carry forward a budget deficit into the next budget cycle (which is 2 years for the 20 states operating on a biennial cycle); and (5) the state may not carry forward a budget deficit into the next fiscal year. Categories (1) and (2) are examples of *ex ante* rules placing constraints on behavior prior to the fiscal year and do not require any actions to remedy an end-of-the-year deficit. Category (3) permits perpetual debt financing as long as planned expenditures in the next fiscal year plus the current deficit do not exceed expected revenue. The final two categories, (4) and (5), require states to take some action during the current fiscal year if an end-of-the-year deficit is projected.

The type(s) of balanced budget rule present in each state, along with the adoption dates of TELs and rainy day funds, is provided below in Table 6.

[Table 6 about here]

In addition to balanced budget rules, a number of states have TELs in place (generally adopted during the "tax revolt" era of the late 1970s) that are designed to limit the growth in state spending and/or tax revenue collection. In general, TELs specify the maximum increase in the rate of growth in the state's tax revenues and expenditures from one year to the next. The limits vary widely across states but are typically based on the growth in real personal income or population growth plus inflation.

Research investigating balanced budget rules and TELs suggests that such institutional structures alter states' responses in periods of fiscal stress.¹⁶ For instance, Poterba (1994) finds that states with strict balanced budget rules, which are rules (4) and (5) in Table 6, adjust taxes and expenditures more strongly in response to an unanticipated budget shortfall than do states with *ex ante* balanced budget rules. Moreover, states with TELS typically experience slower rates of tax revenue growth as a result of the constraints and are less likely to increase taxes (and more likely to reduce expenditures) in response to unanticipated budget shortfalls.

In an effort to reduce reliance on expenditure reductions and/or tax increases to mitigate periods of fiscal stress, states typically save surplus revenue during good years for use during lean years when revenue growth is below average. While such surplus funds have historically been maintained as a general fund surplus, nearly all states have supplemented this practice with use of a rainy day fund, which is nothing more than a separate account in state budgets where surplus funds may be retained. As Table 6 shows, of the 46 states that currently have a rainy day

¹⁶ For additional evidence regarding the effects of balanced budget rules see Levinson (1997). The effectiveness of TELs is explored in Elder (1992) and Rueben (1996).

fund, only a handful were in place before 1980. States with rainy day funds (RDFs) generally deposit some fraction of a general fund surplus into the RDF and retain the remainder in the general fund. Thus, for states with RDFs, the total funds available to correct unexpected shortfalls at any given time equals the sum of the state's general fund and RDF balance, which Gold (1995) argues is the best indicator of a state's overall fiscal health.

States' rainy day fund balances have dropped significantly in the past two years as states attempted to mitigate their budget crises. In January of 2002, total rainy day fund balances topped \$17 billion. Aggregate balances dropped to \$11.4 billion at the end of FY 2002, and fell further to \$8.5 billion at the end of FY 2003. For FY 2004, 13 states are expected to tap their rainy day funds to minimize budget shortfalls. However, many states are reluctant to reduce rainy day fund balances further, and many states (Arizona, Idaho, and Oklahoma, for example) have depleted their balances all together.¹⁷

The central issue regarding rainy day funds and their ability to assist states in easing recessionary periods is the extent to which monies saved in RDFs are simply replacing monies saved in the general fund. Much like the fungibility of lottery revenues, since RDFs are nothing more than separate accounts in state budgets (just like the general fund), policymakers may simply reduce the size of the general fund surplus by \$1 for every \$1 deposited in the rainy day fund. In fact, Wagner (2003) finds that for every dollar that states deposited into their RDF, total savings (the sum of the state's RDF and general fund balance) increased by only \$0.44 to \$0.49. This clearly suggests that, for the average state, RDFs have not played a significant role in improving fiscal health.

Apart for the issue of substitutability with the general fund, the most important point regarding rainy day funds and savings is not so much how the funds are saved, but whether or

not sufficient funds are saved at all. The notion of optimal savings for states has not been widely addressed in the literature with the exception of Holcombe and Sobel (1997). The consensus reached by Holcombe and Sobel (1997) is that certain types of RDFs will improve a state's ability to weather downturns, specifically those RDFs having rules that force policymakers to save and limit how the funds may be spent. However, the typical state's savings is grossly insufficient to substantially lessen the need for expenditure reductions and/or tax increases.

4. The Current State Budget Crises¹⁸

4.1 Scope of the Crises

In April 2003, the National Conference of State Legislatures reported that collective state budget deficits for FY 2003 could range from \$22 billion to \$30 billion. Thirteen states reported budget deficits in excess of 5 percent of general fund revenues. Projections for FY 2004 are more dire, with current estimates ranging from \$54 billion to \$78 billion. California alone has an estimated budget deficit of \$17.5 billion, or roughly 21 percent of its general fund budget. Twenty-six states currently forecast FY 2004 budget deficits greater than 5 percent of general fund revenue, while 13 of these forecast deficits in excess of 10 percent of general fund revenue. Table 7 provides a summary of the forecasted FY 2004 budget deficits, both in levels and as a percentage of general fund revenue.

[Table 7 about here]

In comparison with the recession in the early 1990s, the deficit (2002 dollars) between state tax revenues and expenditures at that time was \$11 billion and \$17 billion in 1991 and

¹⁷ National Conference of State Legislatures *State Budget and Tax Actions: 2003*.

¹⁸ All data in this section has been obtained from the National Conference of State Legislatures *State Budget Update: April 2003* (<http://www.ncsl.org/programs/fiscal/budissus.htm>) and the Center on Budget and Policy

1992, respectively. The projected collective state budget deficits for FY 2004 are roughly five times greater than during the recession a decade ago.

The budget deficits have forced states to make drastic spending cuts on various programs, including such traditionally sacred programs as education, Medicaid, and corrections. Roughly half of all states have or are planning to make cuts in one or more of the above programs. Twenty-seven states have proposals to reduce or contain Medicaid costs. For example, Illinois is reducing Medicaid funding by \$205 million, Kansas is reducing services in mental health and disability services, and Massachusetts eliminated its MassHealth Basic insurance that left 50,000 people ineligible for Medicaid assistance. K12 education spending is likely to be reduced in 21 states, and 26 states are considering cuts in higher education. The Connecticut governor has recommended a \$104 million decrease in K12 education, Michigan's governor has proposed a 6.75 percent reduction in state aid to higher education institutions, and Tennessee has reduced higher education expenditures by \$102 million.

4.2 What Caused the Current Budget Crises?

Budget deficits are caused by a reduction in revenues, an increase in expenditures, or both. To understand the causes of the current crisis, one must return to the previous decade. Over the period 1993 to 2000, state revenue collections grew markedly as a result of the unusually high levels of economic activity and thus many states were faced with budget surpluses. As a result of growing tax revenue and budget surpluses, almost every state enacted large permanent tax cuts. The majority of cuts were on personal and corporate income taxes, although many states also reduced sales and excise taxes. Ten states enacted cuts totaling

Priorities *The State Tax Cuts and The 1990s: The Current Revenue Crisis, and Implications for State Services*, November 2002 (<http://www.cbpp.org/11-14-02sfp.htm>).

between one and three percent of total tax revenues, while 33 states enacted cuts in excess of three percent of total tax revenues. According to the Center on Budget and Policy Priorities, the tax cuts of the 1990s reduced actual state tax revenue by 8.2 percent. However, tax revenues continued to grow with the economic boom throughout the 1990s despite the broad reduction in tax rates across states.

States had essentially financed permanent tax cuts with the temporary economic boom. The recession beginning March 2001 (NBER classification) and the stock market collapse throughout 2000 to the present has led to a reduction in personal and corporate incomes, capital gains, and consumption. States once flush with revenues quickly saw their coffers drained. Unlike the 1990-1991 recession when nearly every state raised taxes in response to budget shortfalls, few states have raised taxes since the recent economic slowdown. And in most cases, the tax increases have focused on relatively narrow and/or shrinking tax bases such as retail sales, alcohol, and tobacco, thus limiting both the short run and long run growth potential of new revenues.¹⁹ Fiscal pressures on the federal budget have also resulted in less intergovernmental aid to states from the federal government. Furthermore, states are partially responsible for covering the costs of homeland security in the wake of September 11, 2001. Slow economic growth, a weak stock market, an increase in homeland security responsibilities, and a greater reliance on weakening tax bases all continue to prolong states' budget crises.

The stock market collapse and the recent recession clearly impacted the revenue side of state financing. However, are current budget deficits entirely due to a reduction in revenue, or has state expenditure growth also increased over the past decade, thereby widening the deficit between revenues and expenditures? Annual real per capita state expenditures and revenues

¹⁹ For a discussion of the structural problems in state finance see Knight, Kusko and Rubin (2003).

from 1947 to 2002 are shown in Figure 2 along with NBER recessionary periods.²⁰ The aggregate state budget deficit is clearly seen at the far right of Figure 2, and it is much greater than the deficit present during the 1990-1991 recession. Visual inspection suggests that the growth in real per capita expenditures during the 1990s was not greater than early decades. In fact, the average annual growth in real per capita state expenditures over the period 1992–2000 was 1.2 percent, compared with 3.2 percent and 1.5 percent in non-recession years during the 1980s and 1970s, respectively.

[Figure 2 about here]

However, recent revenue and expenditure data reveal that expenditure growth did not slow in the wake of decreasing tax revenues. Annual growth in state per capita revenues and expenditures from 1998 to 2002 is shown in Table 8. While annual real expenditure growth averaged roughly two percent, annual real revenue growth from 2000 to 2002 was negative. While this scenario occurred during other recessionary periods, as shown in Figure 2, state budget surpluses prior to this recent recession were smaller than those prior to earlier recessions, thus increasing the chances that a reduction in revenue would lead to a budget deficit. Currently and historically, state governments continued to increase expenditures even through years of negative revenue growth.

[Table 8 about here]

States financed permanent tax cuts with the economic boom of the 1990s, and the stock market collapse and the recent recession hit state budget hard by reducing revenues from capital gains, personal and corporate income, and general sales taxes. The importance of income and sales tax revenues to state finance and the relatively high variability of these revenue sources over the business cycle amplified the budget shortfalls seen across the states. In addition, tax

²⁰ Data is from the Office of Management Budget (<http://www.whitehouse.gov/omb/budget/fy2004/hist.html>).

revenue reductions and the failure of state governments to curb recent expenditure growth in the wake of negative revenue growth are factors attributed to the current state budget crisis.

4.3 States' Response to the Crises

State governments are considering and implementing various policies aimed at increasing revenue. While many states are considering an increase in various tax rates, fewer states have implemented or are considering rate hikes than during the 1990-1991 recession despite the fact that state budgets are in greater trouble now than a decade ago. According the National Conference of State Legislatures, six states have increased cigarette taxes and two states have increased alcohol taxes. Fourteen states are considering a raise in these taxes, and eleven states are debating an increase in the sales tax. Six states are looking at increases in personal income and corporate income tax rates. Rather than raising tax rates, several other states are considering ways to close tax loopholes and expand tax bases.

Given the reluctance of state government to raise traditional tax rates, states are pursuing other options in addition to traditional tax increases. Several states are considering the adoption or expansion of casino gaming, and others have or are proposing an increase in casino tax rates. Cutbacks or salary reductions for state employees are also common. Tuition hikes are also being proposed in several states, along with increases in license fees and vehicle registration fees. Ten states have also tapped their rainy days fund during FY 2003. Finally, at least five states are considering the use of funds from the tobacco tax settlement.

However, revenue from the enacted tax increases to date is far short of the amount needed to close states' budget deficits. The Center on Budget and Policy Priorities reports that by the end of 2002 total state tax increases will provide slightly more than \$8 billion, roughly

one-sixth the size of the project budget deficit for FY 2004. It appears there is little hope that states will resolve their budget crises anytime soon unless there is immediate and rapid economic growth and many of the tax proposals and further spending cuts across states are actually enacted.

5. Conclusions – Prelude to Another Crisis?

While the current state budget crisis is the most severe in the post-war era, states have faced other budget crises in the past. It thus seems reasonable that states would realize that favorable economic conditions could not remain, and therefore implement revenue and expenditure policies that allow them to weather periods of fiscal stress. Even when the current crisis is resolved, however, there should be little doubt that states will again experience budget crises in the future. During economic booms, such as the 1990s, state lawmakers cut tax rates while tax coffers are flush and make additional expenditure commitments that they have difficulty keeping when the economy slows. As economic conditions improve, states will again see rising revenues. If the past is a guide, these revenues will be committed to ongoing spending programs or tax rates will be cut. The single step of raising taxes and fees is no panacea to the procyclical spend/cut pattern of state governments.

Furthermore, the set-up of state revenue systems does not bode well for long-term fiscal solvency. Many states are currently considering increases in sales and excise taxes. However, growth in this source tax revenue has slowed in recent history as the economy moves toward services, which are traditionally exempt from state sales taxes. In addition, a continued decrease in the number of smokers questions the ability of cigarette tax increases to provide a reliable long-term source of revenue. Although personal and corporate income taxes trend with

economic conditions, growth in corporate income tax revenues has decreased over the past 20 years, partly due to decreased tax rates but also due to tax avoidance actions taken by businesses. The cyclical variability of sales and income taxes also suggests that state governments will be faced with relatively greater revenue variability in the future as long as increasing portions of state revenues come from these sources.

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Table 1 – Summary of State Revenue FY 2001

	amount (billions \$)	percent of total revenue	percent of tax revenue
<i>Total Revenue</i>	<i>1,180.3</i>		
<i>Tax Revenue</i>	<i>559.7</i>	<i>47.4</i>	
Individual income tax	208.1	17.6	37.2
General sales	179.3	15.2	32.1
Selective sales	78.7	6.7	14.1
License taxes	32.9	2.8	5.8
Corporate income tax	31.7	2.7	5.7
Other taxes	29.0	2.5	5.1
<i>Intergovernmental revenue</i>	<i>305.6</i>	<i>25.9</i>	
<i>Insurance trust revenue</i>	<i>120.0</i>	<i>10.2</i>	
<i>User charges</i>	<i>93.1</i>	<i>7.9</i>	
<i>Miscellaneous revenue</i>	<i>90.9</i>	<i>7.7</i>	
<i>Liquor & Utility revenue</i>	<i>11.0</i>	<i>0.9</i>	

Source: U.S. Census Bureau, Government Finances.

Table 2 – Adoption Dates of Selected State Taxes

	Individual Income	Corporate Income	General Sales	Gasoline
Alabama	1933	1933	1936	1923
Alaska	1949 ^a	1949		1946
Arizona	1933	1933	1933	1921
Arkansas	1929	1929	1935	1921
California	1935	1929	1933	1923
Colorado	1937	1937	1935	1919
Connecticut	1969 ^b	1915	1947	1921
Delaware	1917	1957		1923
Florida		1971	1949	1921
Georgia	1929	1929	1951	1921
Hawaii	1901	1901	1935	1932
Idaho	1931	1931	1965	1923
Illinois	1969	1969	1933	1927
Indiana	1963	1963	1933	1923
Iowa	1934	1934	1933	1925
Kansas	1933	1933	1937	1925
Kentucky	1936	1936	1960	1920
Louisiana	1934	1934	1938	1921
Maine	1969	1969	1951	1923
Maryland	1937	1937	1947	1922
Massachusetts	1916	1919	1966	1929
Michigan	1967	1967	1933	1925
Minnesota	1933	1933	1967	1925
Mississippi	1912	1921	1930	1922
Missouri	1917	1917	1934	1925
Montana	1933	1917		1921
Nebraska	1967	1967	1967	1925
Nevada			1955	1923
New Hampshire	1923 ^c	1970		1923
New Jersey	1976	1958	1966	1927
New Mexico	1933	1933	1933	1919
New York	1919	1917	1965	1929
North Carolina	1921	1921	1933	1921
North Dakota	1919	1919	1935	1919
Ohio	1971	1971	1934	1925
Oklahoma	1915	1931	1933	1923
Oregon	1930	1929		1919
Pennsylvania	1971	1935	1953	1921
Rhode Island	1971	1947	1947	1925
South Carolina	1922	1922	1951	1922
South Dakota			1933	1922
Tennessee	1931 ^c	1923	1947	1923
Texas			1961	1923
Utah	1931	1931	1933	1923
Vermont	1931	1931	1969	1923
Virginia	1916	1915	1966	1923
Washington			1933	1921
West Virginia	1961	1967	1933	1923
Wisconsin	1911	1911	1961	1925
Wyoming			1935	1923

Source: ACIR, Significant Features of Fiscal Federalism, Volume I, 1994.

Notes: (a) Repealed in 1979.

(b) Connecticut began taxing wage and salary income in 1991. Prior to this date, income taxes were imposed on interest and dividend income.

(c) Income taxes imposed only on interest and dividend income.

Table 3 – Cyclical Variability of Selected State Revenue Sources

Revenue Source	Estimate of β
Individual income tax	1.164
General sales tax (with food)	1.229
General sales tax (without food)	1.612
Corporate Income tax	3.369
Motor fuels tax	0.729
Liquor	-0.586

Source: Holcombe and Sobel (1997), p. 92.

Table 4 – State Lottery Start-Up Dates and FY 2002 Sales

State	First Year of Lottery	FY 2002 Sales (\$ millions)	State	First Year of Lottery	FY 2002 Sales (\$ millions)
Arizona	1981	294.82	Montana	1987	33.63
California	1985	2,915.90	Nebraska	1993	73.91
Colorado	1983	407.97	New Hampshire	1964	212.90
Connecticut	1972	907.90	New Jersey	1970	2,068.52
Delaware ¹	1975	674.01	New Mexico	1996	133.97
Florida	1988	2,330.36	New York	1967	4,753.62
Georgia	1993	2,449.36	Ohio	1974	1,983.11
Idaho	1989	92.67	Oregon ¹	1985	816.94
Illinois	1974	1,590.15	Pennsylvania	1972	1,934.16
Indiana	1989	626.31	Rhode Island ¹	1974	1,171.10
Iowa	1985	181.22	South Carolina ²	2002	319.99
Kansas	1987	190.08	South Dakota ¹	1987	629.96
Kentucky	1989	638.72	Texas	1992	2,966.27
Louisiana	1991	311.62	Vermont	1978	81.99
Maine	1974	157.90	Virginia	1988	1,108.07
Maryland	1973	1,306.55	Washington	1982	438.61
Massachusetts	1972	4,213.22	Washington, DC	1982	211.13
Michigan	1972	1,688.04	West Virginia ¹	1986	848.63
Minnesota	1990	377.36	Wisconsin	1988	427.57
Missouri	1986	585.19	TOTAL		42,153.43

¹ Includes video lottery sales

² Sales began January 2002

Sources: North American Association of State and Provincial Lotteries, state lottery websites, and Clotfelter and Cook (1989, chapter 8).

Table 5 – Casino Revenue – Selected States

State	2001 Revenue (\$ millions)	2000 Revenue (\$ millions)	Percent Change
Colorado	\$675.3	\$631.7	6.9%
Connecticut	1,401.6	1,308.7	7.1
Illinois	1,783.8	1,657.8	7.6
Indiana	1,841.8	1,689.7	9.0
Iowa	922.9	892.6	3.4
Louisiana	1,883.2	1,708.9	10.2
Michigan	1,007.4	742.9	35.6
Mississippi	2,700.8	2,650.4	1.9
Missouri	1,137.1	996.6	14.1
Nevada	9,466.9	9,599.4	-1.4
New Jersey	4,303.9	4,299.6	0.1
TOTAL	27,124.7	26,178.4	3.6

Note: Tribal and corporate casino revenue are considered in the above figures, which represent revenues to the casinos net of player winnings.

Source: Bear Stearns *North American Gaming Almanac* 2002-2003, page 6.

Table 6 – Selected State Fiscal Institutions

	Balanced Budget Rule	Expenditure Limit	Tax Limit	Rainy Day Fund
Alabama	5			
Alaska	1,3	1982		1986
Arizona	5	1978		
Arkansas	5			1990
California	1,3	1979		1985
Colorado	5	1991,1992	1992	1983
Connecticut	1,2,3	1991,1992		1979
Delaware	5	1978		1977
Florida	5		1994	1959
Georgia	5			1976
Hawaii	1,4,5	1978		2000
Idaho	2	1980		1984
Illinois	1,2			2000
Indiana	5			1982
Iowa	5	1992		1992
Kansas	5			1993
Kentucky	4,5			1983
Louisiana	2	1993	1979	1990
Maine	5			1986
Maryland	1,2,3			1985
Massachusetts	1		1986	1986
Michigan	3		1978	1977
Minnesota	4		1980,1986	1981
Mississippi	5	1992		1982
Missouri	5	1981		1992
Montana	2,4,5			
Nebraska	5	1979		1983
Nevada	1,2			1994
New Hampshire	1	1990		1987
New Jersey	5			1990
New Mexico	5			1978
New York	1			1945
North Carolina	5	1991		1991
North Dakota	4			1987
Ohio	5			1981
Oklahoma	5	1985		1985
Oregon	4	1979		
Pennsylvania	1,2,3			1985
Rhode Island	5	1992		1985
South Carolina	3,5	1980,1984		1978
South Dakota	5			1991
Tennessee	3,5	1978		1972
Texas	2,4			1987
Utah	5	1989		1986
Vermont				1988
Virginia	4			1992
Washington	3	1993		1981
West Virginia	5			1994
Wisconsin	3			1981
Wyoming	4			1982

The five balanced budget rules are: (1) the governor is required to submit a balanced budget; (2) the legislature is required to adopt a balanced budget; (3) the state may carry forward a budget deficit to be corrected in the next fiscal year; (4) the state may not carry forward a budget deficit into the next budget cycle (which is 2 years for the 20 states operating on a biennial cycle); and (5) the state may not carry forward a budget deficit into the next fiscal year. Sources: ACIR, Significant Features of Fiscal Federalism, Volume I, 1994, Wagner (2003), Rueben (1996).

Table 7 – Summary of State Budget Deficits – FY 2004

Budget Deficit (millions \$)	Number of States	Budget Deficit as a % Of General Fund	Number of States
> \$5,000	2	> 20 %	4
\$1,000 - \$5,000	8	15 - 20%	3
\$500 - \$1,000	8	10 – 15%	6
\$100 - \$500	10	5 – 10%	13
< \$100	19 ^a	< 5 %	21 ^a

^a Includes states with no projected budget deficit.

Source: National Conference of State Legislatures *State Budget Update: April 2003*.

Table 8 – State Revenue and Expenditure Growth 1998 – 2002

Year	Annual Growth in Real Per Capita Revenues (%)	Annual Growth in Real Per Capita Expenditure (%)
1998	3.9	2.3
1999	1.9	2.4
2000	-0.2	1.3
2001	-1.9	3.4
2002	-0.7	1.3

**FIGURE 1 - Sources of State Tax Revenue
1950 - 2001**

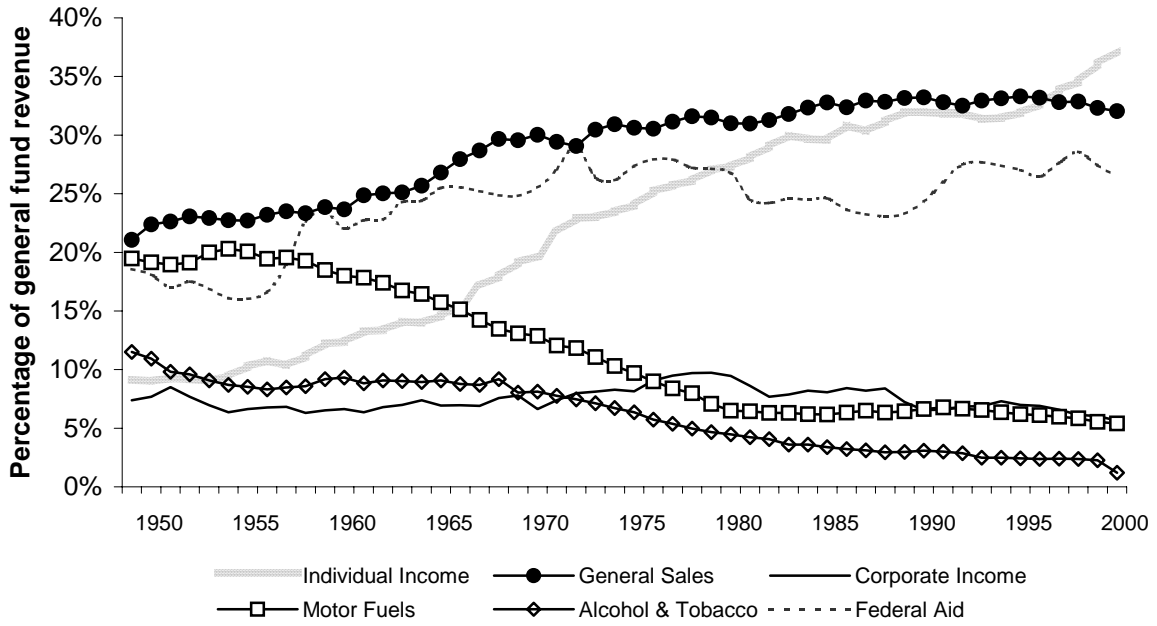


Figure 2 - Real Per Capita State Revenue and Expenditures - 1947 to 2002

