Program Report

Public Economics

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In the three years since the last report on the NBER's public economics program, national policy debates have drawn attention to a number of questions that are central to the research of program members. The tax policy debate of 1993 resulted in substantial increases in marginal tax rates for some households, raising new questions about the incentive effects of tax rates. The emerging debate on a flat tax or a consumption-based alternative to the federal income tax is sure to result in far-reaching discussion of both equity and efficiency issues in the design of tax policy. The recent debate on health care reform generated a host of new research questions concerning the role of government intervention in the marketplace, and the efficacy of particular social insurance policies. Current discussion of proposals to change the level and structure of federal spending on entitlement programs, including Medicare and a variety of programs for low-income, nonelderly households, is also certain to draw heavily on past research, and to stimulate further research, in public economics.

This report summarizes recent work by NBER researchers on a wide range of subjects in public economics. It begins with a survey of work that bears on some of the recent and current federal policy debates, and then proceeds to describe research on a variety of other issues.

Empirical Studies of Taxation and Individual Behavior

The substantial changes in tax rates during the last decade have provided an extraordinary research opportunity for studying the effect of taxation on individual behavior. Researchers have exploited this "natural experiment" in tax policy to analyze behavioral responses. Several widely cited studies suggest that the 1986 reductions in marginal tax rates on high-income households led to substantial increases in their reported taxable income. This effect is important both because it affects revenue estimation, and because the effect of tax rates on taxable income can be an
important determinant of the efficiency cost of the tax system. While the source of tax-rate-related increases in taxable income is not yet clear, there is evidence of a significant increase in labor supply among married women who experienced large reductions in their households’ marginal tax rates.5 Other empirical studies have considered the effect of marginal tax rates on the decision to realize capital gains,4 and on the choice between receiving income as taxable wages rather than as fringe benefits.5 Identifying the channels through which tax rate changes affect individual behavior remains a central item on the program’s research agenda.

Several NBER researchers have done related work on individual taxation that is relevant to discussions of tax reform. This includes analyzing the changing nature of the “marriage penalty” in the federal income tax;6 developing a theory of income taxation when income cannot be measured precisely;7 and evaluating the efficiency and distributional effects of replacing the current income tax with a value-added tax.8

**Tax Policy and Saving**

NBER researchers also have studied personal saving and how it is affected by tax rates. Several NBER affiliates participated in a project comparing personal saving rates in industrial nations, and summarizing the tax incentives and other public policies that could affect personal saving in these nations.9 A number of other studies have described or modeled household saving behavior. One documents the stylized patterns of saving across ages and cohorts in the United
States; others focus on the precautionary motives for household saving, and a third set is concerned with the effects of targeted retirement saving plans, such as Individual Retirement Accounts and 401(k) plans, on personal saving.

Another strand of research on private saving has considered the implications of the ongoing demographic transition in the United States. This includes work describing the current adequacy of young households' retirement saving, as well as research on the link between population aging, economy-wide rates of saving and dissaving, and the rates of return on various financial assets.

**Tax Policy and Corporation Behavior**

One of the perennial subjects studied by researchers in the public economics program is the effect of taxation on the financial and other decisions of corporations. In the last three years, NBER researchers have addressed a range of new questions, including how liquidity constraints influence corporate start-up decisions by entrepreneurs; how security transaction taxes affect financial markets and the cost of capital; what role aftertax versus pretax returns play as measures of mutual fund performance; and whether tax policy encourages or discourages firm spending on R and D.

NBER scholars also have continued their work on traditional issues in business taxation and finance, developing new insights on the effect of taxation on firm dividend payout policy; on the choice between corporate and noncorporate forms of organization for productive activity; and on the general question of whether equipment investment yields social externalities that warrant special tax subsidies.

**International Tax Policy**

One rather specialized issue in corporate tax policy that has emerged in the last decade is the role of taxation in an increasingly global economy. A number of NBER researchers have studied a range of questions about international tax policy, paying particular attention to the taxation of capital income in a global economy. Research in this vein has considered the effect of international tax rules on the location of research and development activities; the impact of tax rules on capital investment and the financial decisions of multinational firms; the viability of capital income taxes in open economies; and the effect of specialized tax rules, such as those governing U.S. firms operating in Puerto Rico, on investment behavior.

A number of other studies have tackled broader questions, for example whether outbound foreign direct investment depresses domestic investment in the nation that undertakes the investment; why domestic saving and investment tend to move roughly in tandem over periods of several years; and the link between tax policy and trade policy in achieving government policy objectives.

**Social Insurance**

The economic effects of social insurance programs have attracted an enormous volume of research activity during the last few years. The national health care policy debate turned the attention of researchers to a new set of problems in policy design and evaluation. Long-term demographic trends that point toward a growing share of elderly households in the U.S. population make social insurance outlays a critical component of prospective government expenditures.

NBER researchers have analyzed many aspects of social insurance programs. To highlight the range of this work, I first report on research on the effects of government policies involving health care markets, and then consider other topics. In the area of health care, Bureau researchers have asked how wages respond to mandated health insurance benefits for workers; how employer-provided health insurance affects job mobility; how changes from fee-for-service to prospective payment have affected the delivery of health care; and how changes in Medicaid rules have affected the likelihood that newly eligible families receive medical care and experience improvements in their health status. Some work on health insurance has tried to evaluate the welfare gains from alternative insurance regimes; the allocative effects of the current tax subsidies on the demand for insurance; and the degree to which public insurance crowds out its private sector counterpart.

Another set of studies has advanced our understanding of unemployment insurance and its effects on smoothing fluctuations in consumption; of how disability insurance affects labor market behavior; and how programs that afford AFDC eligibility to families with two unemployed parents affect the labor supply of such parents. In the area of social insurance programs primarily directed at the elderly, program members have considered the effect of rising social insurance outlays on the degree to which elderly households...
are annuitized, and on their labor market decisions, particularly the decision to retire.

**State and Local Public Finance**

New interest in shifting responsibilities for programs from the federal government to states and localities has heightened Bureau researchers' attention to a new set of tax policy issues. One group of studies considers the impact of school competition on the relationship between inputs and outputs in public education. These studies analyze competition between public and private schools as well as between public schools in different communities, and provide original and innovative evidence on the real effects of competition. Another line of research looks at the degree to which states and localities can affect the aftertax distribution of income by enacting progressive income tax schedules. A third line of work explores the efficacy of police spending in deterring crime, using the ingenious strategy of tracking crime rates around the time of elections in large cities, when the police force typically is expanding.

Other NBER researchers have investigated capital and infrastructure spending, including the effect of institutions for capital budgeting on state capital spending, and the spillovers across states and localities that result from infrastructure investments.

**Environmental Taxes**

The revenue potential and efficiency effects of taxing various goods that are perceived as imposing external costs on society have been active issues of public policy debate in the last several years. NBER researchers have considered a number of issues relating to environmental tax policy. At the most general level, there have been advances in building computable general equilibrium models used to analyze environmental taxes and in the theory of tax design in the presence of externalities. Specific environmental taxes singled out for analysis include those on alcohol and tobacco, oil and petrochemical feedstocks, and "Superfund" taxes on a variety of chemical inputs to production processes.

**Public Policy and Housing Markets**

The effect of public policies, particularly tax and financial policies, on housing markets is central to the emerging tax reform debate, but is also of independent interest. During the last two years, Patric H. Hendershott of Ohio State University has directed an NBER Project on Public Policy and Housing Markets. Research in this project has considered the determinants of household mortgage indebtedness and the impact of housing markets on the wealth accumulation patterns of younger households among other topics. Many of the findings from this project were presented at an October 1994 conference, which was summarized in the Winter 1994/5 *NBER Reporter*.

**Political Economy of Tax and Spending Policies**

One of the newer, but rapidly growing, areas of research in public economics is the political economy of tax and expenditure policies, including: the effect on spending behavior of electoral institutions, such as term limits, whether fiscal institutions and fiscal constraints affect deficit policy, and general discussions of the political economy of the welfare state. One intriguing line of research that has emerged from this area, and that bears directly on much of the empirical research on social insurance, involves the exogeneity of state-level changes in policy that frequently are the subject of so-called "natural experiment" studies. Without a framework for evaluating why policies change, it is difficult to analyze their effects as if they were laboratory experiments, complete with "control" and "experimental" groups.

**Government Service**

Researchers affiliated with the NBER's Program in Public Economics have a long tradition of testing their expertise through public service. Since the last program report, Michael J. Boskin and David F. Bradford have completed their service on the Council of Economic Advisers (CEA), and Joseph E. Stiglitz has joined the Council. In addition, Faculty Research Fellow David M. Cutler has returned from his stint as a senior staff economist at the CEA. Lawrence H. Summers, formerly Chief Economist at the World Bank, became Undersecretary for International Affairs, and more recently the nominee as Deputy Secretary at the U.S. Department of the Treasury. Alan B. Krueger is currently the Chief Economist of the U.S. Department of Labor.


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Research Summaries

Measuring and Controlling Inflation

Stephen G. Cecchetti

In many ways, the monetary policy of the last 15 years has been strikingly successful: inflation has fallen dramatically, from well over 10 percent per year in the late 1970s to only about 3 percent in recent years. But this new low-inflation environment brings with it a host of questions that do not arise when inflation is at moderate or high levels. For example, is inflation being measured accurately? And, how can policymakers control the future path of inflation? These questions have guided much of my research over the past several years.

Michael F. Bryan of the Federal Reserve Bank of Cleveland and I studied the measurement of the most popular and commonly used aggregate price statistic in the United States: the Consumer Price Index (CPI). The CPI is the most prominent measure of inflation, and thus has become a focal point in the Federal Reserve's inflation fight. Broadly speaking, there are two problems associated with using the CPI to measure inflation: First, it represents month-to-month price changes that may not reflect changes in long-term trends accurately. Measured changes in the CPI often contain substantial short-run, transitory noise that does not constitute long-term inflation, and can easily mislead the monetary authorities.