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# **Do Budget Deficits Reduce Household Taxpayer Compliance? Preliminary Evidence Using the Feige Data**

Richard J. Cebula and Michael Toma

## **Abstract**

This study investigates the hypothesis that higher federal budget deficits act to increase the degree of federal personal income tax evasion in the U.S. Using annual data on aggregate personal income tax evasion for the period 1961-1997, 1997 being the most recent year for which all of the needed data are currently available, and allowing for such factors as income tax rates, IRS tax return audit rates, the Vietnam War, and the Watergate scandal, it is found that income tax evasion is an increasing function of the budget deficit. Important policy implications of this finding are provided in the Conclusion.

J.E.L. Classification Codes: H26, H62, K42

## **I. INTRODUCTION**

Income tax evasion effectively consists of taxable income that is either unreported or underreported to the government tax collection agency, which is the IRS (Internal Revenue Service) for the case of the U.S. Studies of income tax evasion behavior essentially fall into three categories. First, there are the principally theoretical models of tax evasion behavior, such as Falkinger (1988), Allingham and Sandmo (1972), Klepper, Nagin, and Spurr (1991), Das-Gupta (1994), Pestieau, Possen, and Slutsky (1994), and Caballe and Panades (1997). Second, there are a number of studies that either (a) use questionnaires or (b) undertake experiments, such as Spicer and Lundstedt (1976), Friedland (1982), Spicer and Thomas (1982), Benjamini and Maital (1985),

Alm, Jackson, and McGee (1992), Baldry (1987), De Juan (1989), Thurman (1991), and Alm, McClelland, and Schulze (1999). Third, are those studies that use what is referred to as "official data" [e.g., Clotfelter (1983), Slemrod (1985), Pommerehne and Weck-Hannemann (1989), Erard and Feinstein (1994), Feige (1994), Cebula (1997; 2001), and Feinstein (1999)].

It is widely believed that the "degree of federal (central government) personal income tax evasion in the economy as a whole" (hereafter, "DTE") is positively affected by income tax rates [Clotfelter (1983), Slemrod (1985), Pommerehne and Weck-Hannemann (1989), Feige (1994), Cebula (1997; 2001), Saltz (2001)]. Allegedly, the higher the income tax rate, the greater the benefit (in terms of a reduced tax liability) from not reporting taxable income, *ceteris paribus*. It is also widely accepted that the greater the risk associated with underreporting or not reporting income, the *less* the degree to which economic agents will choose either to not report or to underreport their taxable income [Friedland (1982), Spicer and Thomas (1985), De Juan (1989), Alm, Jackson, and McKee (1992), Errard and Feinstein (1994), Cebula (1997; 2001), Saltz (2001)].

This study seeks to add to the third category of this rich literature by investigating whether federal budget deficits in the U.S. impact on the incentive to evade income taxation. The U.S. federal budget was in surplus for the period FY1998-FY2001. However, given the recession of 2001, a sluggish economy following

that recession, tax cut legislation enacted in 2001, the "war on terrorism" declared in the aftermath of the terrorist attacks of September 11, 2001, and the tax cut statute enacted in 2003, federal budget *deficits* have reappeared. Krueger (2003) warns that federal budget deficits have re-emerged as a major problem and that that with the impending retirement of the first "baby boomers," the "red ink" is likely to continue "as far as the eye can see." Similarly, Comptroller General David Walker (2003, p. A12) has observed that "The days of surpluses are gone, and our current and projected budget situation has worsened significantly." Walker (2003, p. A12) adds that "The bottom line is, there is little question that deficits matter, especially if they are large, structural, and recurring in nature..." Indeed, Krueger (2003) envisions predicted future budget deficits as raising interest rates and crowding out private investment in new plant and equipment in years to come.

Krueger's concerns are not uncommon. Over the years, a number of economists and policymakers have taken the view that, among other things, budget deficits raise interest rates. For example, consider another distinguished economist, Michael Boskin (1987, p. 257), who has stated that "...it is very likely that deficits do contribute to high interest rates both directly through increased demand in credit markets and indirectly through uncertainty premia over their likely economic effects and how they will be resolved..." Moreover, to the extent that government budget deficits act to

raise intermediate and long term interest rates, it has previously been suggested that deficits lead to the crowding out of investment [Al-Saji (1992; 1993), Carlson and Spencer (1975), Cebula (1991)]. Indeed, the budget deficit issue is very much alive, as are the concerns over its potential effects on the economic future of the U.S. economy. The very recent scholarly contributions by Ott (2003), MacAvoy (2003), and Orcutt (2003) are evidence of this.

The present study, however, considers budget deficits from a different and perhaps less obvious (but no less dangerous) perspective, namely, "Do higher budget deficits themselves lead to increased tax evasion?" If the answer to this question is indeed "yes," then government budget deficits may be to some extent self-generating, implying that the need to have federal government budgetary restraint (fiscal responsibility) may be even greater than heretofore perceived or conceded. Section II of this study provides the basic model and identifies formally the key variables in the system; in so doing, the formal hypothesis surrounding the potential budget deficit/tax evasion linkage is provided. The subsequent section describes the data used to test the model and provides the empirical findings. A summary and policy implications are found in the concluding section.

## **II. THE MODEL**

The economy consists of agents who generate economic value that is reflected in the form of taxable income. These economic

agents choose whether or not to report none, some, or all of their taxable income to the IRS. To the extent that said income is reported to the IRS, a tax liability may be incurred.

In this study, the *relative* probability that the *representative* economic agent will *not* report his/her taxable income to the IRS is treated as an increasing function of the expected gross benefits to the agent of not reporting income,  $eb$ , and a decreasing function of the expected gross costs to the agent of not reporting income,  $ec$ . Thus, it is hypothesized that, to some degree paralleling the model in Cebula (2001), the probability of not reporting income to the IRS,  $pnr$ , is described for the representative economic agent by:

$$pnr = f(eb, ec), f_{eb} > 0, f_{ec} < 0 \quad (1)$$

Since the values for  $pnr$  will vary across different sectors of the economy,  $pnr$  may be viewed as a weighted average of these various probabilities.

The gross benefits from *not* reporting income to the IRS are expected to be an increasing function of the federal personal income tax rate [Cagan (1958), Bawley (1982), Tanzi (1982; 1983), Clotfelter (1983), Slemrod (1985), Pyle (1989), Feige (1994)]. To reflect the federal personal income tax rate, most previous studies using official data have adopted either of two alternative measures: an average effective personal income tax rate (AEPT) or the maximum marginal personal income tax rate (MAXPT). In this study, unlike most of the previous related studies, *both* of these

measures are adopted *simultaneously*. Accordingly, it is hypothesized that:

$$eb = g(AEPT, MAXPT), g_{AEPT} > 0, g_{MAXPT} > 0 \quad (2)$$

It has previously been suggested [Feige(1994), Cebula (2001)] that the more the public distrusts and resents government policies and how government officials conduct themselves, the greater may be the subjective benefits taxpayers derive from tax evasion. For example, it has been specifically argued by Feige (1994, p. 129) that the public's dissatisfaction with government and hence its penchant for income tax evasion may have been increased by factors such as "...the Vietnam War and the subsequent Watergate episode and sharply rising tax [income] rates."

Based on Feige (1994, p. 129) then, it is first hypothesized here that there would have been an increase in personal income tax evasion, *ceteris paribus*, as a taxpayer response over the years of the Nixon/Nixon-Ford Administrations (1972-1976, which period is represented here by the dummy variable WATERGATE) during which the actual Watergate scandal occurred and was serving as the subject of nearly constant media attention. In addition, a second dummy variable reflecting the Watergate scandal is considered in the analysis, AFTERWATER. This binary variable is included in the analysis in order to test whether there was a longer term taxpayer reaction in the period that followed the Watergate scandal, one in which a taxpayer attitude of resisting (trying to evade) federal personal income taxation was greater due to a continuing,

generally diminished faith in the U.S. political system and/or politicians. Also following Feige (1994, p. 129), we hypothesize an adverse taxpayer reaction to the Vietnam War in the form of increased personal income tax evasion, *ceteris paribus*. This study allows for this phenomenon by including a separate dummy variable (WAR) for the years (1965-1972) during which the U.S. was significantly involved in Vietnam *militarily*, i.e., not merely or primarily in an "advisory" capacity. Accordingly, equation (2) can now be expanded to:

$$eb = h(AEPT, MAXPT, WAR, WATERGATE, AFTERWATER),$$

$$h_{AEPT} > 0, h_{MAXPT} > 0, h_{WAR} > 0, h_{WATERGATE} > 0, h_{AFTERWATER} > 0 \quad (2')$$

In addition, it is hypothesized in the present study that the public's dissatisfaction with government may be significantly impacted by the size of federal budget deficits (DEF). Such deficits may be viewed as wasteful, fiscally irresponsible, and indeed even unfair, the latter in part because households in general must as a rule in the long run live within budget constraints, whereas the federal government effectively faces no such constraint whatsoever. Moreover, the burden of the interest paid on federal deficits is borne principally by individual taxpayers through their federal personal income tax payments, a potential cause for further dissatisfaction with government deficits. Thus, taxpayers not only are by nature deprived of the financial (budgetary) freedom the federal government enjoys but also must foot the bill for the federal government's "budgetary



transgressions." Furthermore, to the extent that at least some portion of the income-earning public believes that budget deficits adversely affect the economy [see, e.g., Krueger (2003)], federal deficits may further contribute to the public's dissatisfaction with government. Thus, it is hypothesized here that the greater the size of the federal budget deficit, the greater the degree of taxpayer dissatisfaction with government and hence the greater the degree to which taxpayers have a desire to underreport or not report income to the IRS, *ceteris paribus*. Hence, (2') can be rewritten as:

$$eb = h(AEPT, MAXPT, WAR, WATERGATE, AFTERWATER, DEF), h_{AEPT} > 0, h_{MAXPT} > 0, h_{WAR} > 0, h_{WATERGATE} > 0, h_{AFTERWATER} > 0, h_{DEF} > 0 \quad (2'')$$

The expected gross costs of not reporting income to the IRS are hypothesized to be an increasing function of the risks thereof [Alm, Jackson, and McKee (1992), Pestieau, Possen, and Slutsky (1994), Erard and Feinstein (1994), Caballe and Panades (1997), Cebula (1997), Saltz (2001)]. In this study, to the representative economic agent, the expected penalty from not reporting or underreporting taxable income to the IRS, is enhanced by an increase in AUDIT, the percentage of filed federal income tax returns that is formally audited by IRS examiners/personnel. Indeed, the experience of an IRS tax audit would imply non-pecuniary ("psychic") costs as well as pecuniary costs (including outlays for legal or other representation, along with the value of one's own time) above and beyond any potential added taxes,

penalties, and interest assessed by the IRS. Thus, we have:

$$ec = j(\text{AUDIT}), \quad j_{\text{AUDIT}} > 0 \quad (3)$$

Substituting from (2") and (3) into (1) yields:

$$\begin{aligned} pnr = & b(\text{AEPT}, \text{MAXPT}, \text{WAR}, \text{WATERGATE}, \text{AFTERWATER}, \text{DEF}, \text{AUDIT}), \\ & b_{\text{AEPT}} > 0, b_{\text{MAXPT}} > 0, b_{\text{WAR}} > 0, b_{\text{WATERGATE}} > 0, b_{\text{AFTERWATER}} > 0, b_{\text{DEF}} > 0, b_{\text{AUDIT}} < 0 \end{aligned} \quad (4)$$

### III. EMPIRICAL ANALYSIS

Based on the framework provided in (4) above, the following reduced-form equation is to be estimated:

$$\begin{aligned} (\text{AURI}/\text{GDP})_t = & a_0 + a_1 \text{AEPT}_{t-1} + a_2 \text{MAXPT}_{t-1} + a_3 \text{WAR}_t \\ & + a_4 \text{WATERGATE}_t + a_5 \text{AFTERWATER}_t + a_6 \text{DEFY}_t + a_7 \text{AUDIT}_{t-1} + u \end{aligned} \quad (5)$$

where:

$(\text{AURI}/\text{GDP})_t$  = the ratio of the aggregate *unreported* taxable income in year  $t$  to the GDP in year  $t$ , expressed as a percent;

$a_0$  = constant term;

$\text{AEPT}_{t-1}$  = the average effective federal personal income tax rate in year  $t-1$ , expressed as a percent;<sup>1</sup>

$\text{MAXPT}_{t-1}$  = the maximum marginal federal personal income tax rate in year  $t-1$ , expressed as a percent;

$\text{WAR}_t$  = a binary (dummy) variable for the years in which the U.S. was significantly and actively involved *militarily* in the Vietnam War:  $\text{WAR}_t = 1$  for 1965-1972 and  $\text{WAR}_t = 0$ , otherwise;

$\text{WATERGATE}_t$  = a binary variable for the years surrounding the Watergate scandal, beginning with 1972, when the Watergate break-in was discovered and made public and ending with 1976, when the Nixon/Nixon-Ford Administrations were effectively over:

$WATERGATE_t = 1$  for 1972-1976 and  $= 0$  otherwise;

$AFTERWATER_t$  = a binary variable for the years subsequent to 1976:

$AFTERWATER_t = 1$  for years prior to 1977 and  $= 0$  for 1977 and thereafter;

$DEFY_t$  = the ratio of the total nominal federal budget deficit in year  $t$  to the nominal GDP in year  $t$ , expressed as a percent;

$AUDIT_{t-1}$  = the percentage of filed federal personal income tax returns in year  $t-1$  that was subjected to a formal IRS audit involving IRS examiners;

$u$  = stochastic error term.

The study period runs from 1961 through 1997, a time frame dictated by availability of all of the needed data. For example, quality data for the variable  $AUDIT$  are not available on a reliable basis prior to 1960, and the tax evasion series have not as yet been computed past 1997. The data are annual. The data for  $AEPT$ ,  $MAXPT$ , and  $AUDIT$  were obtained from the IRS (1960-1997) and the IRS (2003). The  $WAR$ ,  $AFTERWATER$ , and  $WATERGATE$  variables are binary (dummy) variables. The  $DEFY$  variable was obtained from the Council of Economic Advisors (2003, Table B-79), after multiplying the series by  $(-1)$ . As is common practice in the empirical macroeconomics literature, the budget deficit is expressed relative to the size of the economy. The series adopted to measure the variable  $AURI/GDP$  were obtained from Tanzi (1982; 1983) and extended through 1997. The mean value for the  $AURI/GDP$  series was 4.89, with a standard deviation of +0.559.

The P-P (Phillips-Peron) unit root test indicates that the variables *AURI/GDP* and *AEPT* are both stationary in levels, whereas the variables *MAXPT*, *DEFY*, and *AUDIT* are stationary only in first differences. Accordingly, in the estimations, the variables *MAXPT*, *DEFY*, and *AUDIT* are expressed in first differences.

The variables  $(AURI/GDP)_t$  and  $DEFY_t$  are contemporaneous. To avoid simultaneity bias, an IV (instrumental variables) approach is adopted. The instrument adopted is the two-year lag of the annual percentage interest rate yield on ten year Treasury notes (*TEN*). The P-P test reveals that, like the *DEFY* variable, the *TEN* variable is stationary only in first differences. The choice of instrument is based on the finding that the *DEFY* variable (in first differences) and the two-year lagged *TEN* variable (in first differences) are highly correlated, whereas the two-year lagged instrument is not correlated with the error terms in the system. The data for *TEN* were obtained from the Council of Economic Advisors (2003, Table B-73).

The IV estimation of equation (5), adopting the Newey-West heteroskedasticity correction, is provided in equation (10):

$$\begin{aligned}
 (AURI/GDP)_t = & 2.08 + 0.15 AEPT_{t-1} + 0.015 zMAXPT_{t-1} + 0.29 WAR_t \\
 & \quad (+2.86) \quad \quad (+2.18) \quad \quad \quad (+2.54) \\
 + & 0.73 WATERGATE_t + 0.19 zDEFY_t + 1.1 AFTERWATER_t \\
 & (+5.18) \quad \quad (+2.68) \quad \quad (+7.85) \\
 - & 0.29 zAUDIT_{t-1}, F\text{-statistic} = 15.03, DW = 1.95, Rho = 0.02 \quad (6) \\
 & (-1.32)
 \end{aligned}$$

where terms in parentheses are  $t$ -values and  $z$  is the first-differences operator.

In equation (6), all of the estimated coefficients on the seven explanatory variables exhibit the hypothesized signs, with six statistically significant at beyond the five percent level. The  $F$ -statistic is significant at far beyond the one percent level. There is no concern regarding autocorrelation.

The estimated coefficient on the *AEPT* variable is positive and significant at the one percent level. Thus, the greater the average effective federal personal income tax rate, the greater the aggregate degree of income tax evasion by households. This finding is consistent with the conventional wisdom and with several previous studies, e.g., Clotfelder (1983), Slemrod (1985), Feige (1994), and Cebula (2001). The coefficient on the maximum marginal federal personal income tax rate is positive and significant at the four percent level. Thus, there is strong evidence that this particular measure of the federal personal income tax rate also positively affects tax evasion. The estimated coefficients on the *WAR*, *AFTERWATER*, and *WATERGATE* dummies are all positive and statistically significant at beyond the two percent level. Thus, it appears, as argued by Feige (1994), that the Vietnam War and the Watergate scandal may have acted to create an attitude among taxpayers that increased the degree of their personal income tax evasion. By contrast, the estimated coefficient on the *AUDIT* variable is negative but not

statistically significant, a finding consistent with the earlier studies by Cebula (1997) and Saltz (2001). Finally, the estimated coefficient on the deficit variable is positive and statistically significant at the one percent level. Thus, it appears, as hypothesized in this study, that for the U.S. the greater the federal budget deficit (expressed here as a percent of GDP), the greater the degree to which taxpayers engage in income tax evasion.

#### **IV. CONCLUSION**

This study has examined the hypothesis that, at least for the U.S., larger federal budget deficits create an incentive for resentful taxpayers to engage in a greater degree of federal personal income tax evasion. This potential impact of the federal budget deficit has not to date been formally investigated in the published literature.

The IV estimate reveals several conclusions. For example, the aggregate degree of personal federal income tax evasion over the 1961-1997 study period was an increasing function of the average effective federal personal income tax rate, the maximum marginal personal income tax rate, the Vietnam War, and the Watergate scandal.

Strong empirical evidence is also provided that the greater the federal budget deficit (measured in this study as a percent of the GDP), the greater the degree of personal federal income tax evasion. If this finding is valid, it implies that the greater the

federal budget deficit (relative to the size of the economy), the lower the Treasury's income tax revenues will be over time and hence the higher future federal budget deficits will become over time, *ceteris paribus*. Thus, a hidden danger in the recent reappearance of huge budget deficits is that future projections of those deficits may prove to be more downwards biased than previously believed. Given the *potential long term* implications of huge budget deficits for interest rates, capital formation, economic growth, global economic competitiveness, and living standards, the economic impacts of prolonged huge budget deficits could be traumatic to the U.S. economic outlook.

#### **Endnote**

1. Feige (1994, p. 135) states that "The average tax rate is simply the sum of *total* government tax receipts divided by AGI [aggregate]," where AGI is adjusted gross income. In the present investigation, variable *AEPT* is total federal government income tax receipts ***from individuals*** divided by their aggregate AGI.

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