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# STUDENT FINANCIAL AID

## Need Determination Could Be Enhanced through Improvements in Education's Estimate of Applicants' State Tax Payments





Highlights of [GAO-05-105](#), a report to congressional requesters

# STUDENT FINANCIAL AID

## Need Determination Could Be Enhanced through Improvements in Education's Estimate of Applicants' State Tax Payments

### Why GAO Did This Study

In 2003, the Department of Education (Education) proposed an update to the state and other tax allowance, a part of the federal need analysis for student financial aid. Most federal aid as well as some state and institutional aid is awarded based on the student's cost of attendance less the student's and/or family's ability to pay these costs—known as the expected family contribution (EFC). The allowance, which accounts for the amount of state and other taxes paid by students and families, effectively reduces the EFC. Given the potential impact of the allowance on the awarding of aid, we determined what factors have affected the updating of the tax data on which it is based, the effects the proposed 2003 update would have had on financial assistance for aid applicants, any limitations in the method for deriving the allowance, and strategies available to address them.

### What GAO Recommends

GAO recommends that the Secretary of Education, in the short run, (1) formalize procedures to ensure that Education annually requests and obtains the most current tax data from the Internal Revenue Service (IRS) and (2) revise the methodology for calculating the allowance to better reflect the varying tax rates paid by students and families in different income groups. In the longer run, GAO recommends that Education (3) determine whether more effective data sources or methodologies exist for deriving the allowance. [www.gao.gov/cgi-bin/getrpt?GAO-05-105](http://www.gao.gov/cgi-bin/getrpt?GAO-05-105).

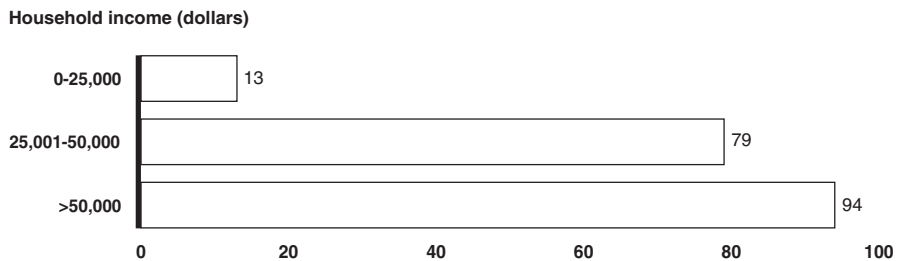
To view the full product, including the scope and methodology, click on the link above. For more information, contact Cornelia Ashby at (202) 512-8403 or [AshbyC@gao.gov](mailto:AshbyC@gao.gov).

### What GAO Found

While Education has been required to revise the allowance annually since 1993, prior to 2004 it attempted to update the allowance only twice—in 1993 and again in 2003—but the latter update was suspended. As a result, the 1988 IRS tax data used for the 1993 update remained in effect. The lack of updates is primarily because Education did not annually seek data needed to update the allowance or establish effective internal control to guide the updating process. Also, Education did not consider alternatives when data were not readily available.

Had the update been implemented in 2004–2005, the allowance would have decreased for most states; as a result, the EFC would have increased by about \$500, on average, for a majority of aid applicants. Of those with an EFC increase, 38 percent would either have received less in Pell Grants (\$144 less on average) or would have become ineligible for them; the percentage of recipients affected would have varied by income. Overall Pell Grant expenditures would have decreased by \$290 million. Increases in EFCs could also have affected other forms of aid, including state aid; these effects in turn could have affected Stafford loans and Parent Loans for Undergraduate Students. The impact of the proposed update on Campus-Based, state, and institutional need-based aid would likely have varied based on state and institutional aid awarding policies and changes in state allowances.

**Percentage of Recipients Who Would Have Seen a Pell Grant Reduction with the Proposed Update, by Household Income**



Source: GAO analysis of the Free Application for Federal Student Aid (FAFSA) applicant file.

Due to certain limitations of the IRS dataset with respect to calculating the allowance, and problems with how Education uses this dataset, the current allowance may not reflect the amount of taxes paid by students and families. The dataset is limited because the taxpayers included in it are generally not representative of aid applicants, it does not include all state and other taxes paid by students and families, and the tax data are several years older than the income information reported by applicants on aid applications. In addition to these limitations, Education does not make full use of the dataset to better reflect the varying tax rates paid by taxpayers in different income groups.

Strategies we identified for addressing the limitations of the tax allowance include (1) using IRS data with revisions to the method for calculating the allowance, (2) substituting IRS data with one of several alternative data sources, (3) using a standard allowance for all aid applicants irrespective of state of residence, or (4) collecting tax information directly from aid applicants. These could require modest to substantial changes, would differ in their impact on applicants and federal costs, and could require legislative changes.

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**Abbreviations**

ACSFA	Advisory Committee on Student Financial Assistance
AGI	adjusted gross income
ASEC	Annual Social and Economic Supplement
AY	award year
BEA	Bureau of Economic Analysis
CEAD STAB	Cost Estimation and Analysis Division Statistical Abstract
COA	cost of attendance
CPS	Current Population Survey
EFC	expected family contribution
FAFSA	Free Application for Federal Student Aid
FY	fiscal year
HEA	Higher Education Act
IM	Institutional Methodology
IRS	Internal Revenue Service
ITEP	Institute on Taxation and Economic Policy
NSLDS	National Student Loan Data System
PLUS	Parent Loans for Undergraduate Students
SEOG	Supplemental Educational Opportunity Grant
SOI	Statistics of Income

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United States Government Accountability Office  
Washington, DC 20548

January 21, 2005

### Congressional Requesters

In 2003–2004, an estimated \$98 billion in financial aid was awarded to students for postsecondary education through the Title IV federal student aid programs, as well as state and institutional grant programs.<sup>1</sup> Title IV aid is currently awarded based on a formula specified in the Higher Education Act (HEA); many states and postsecondary institutions also use this formula to award their own student aid. A substantial portion of this aid is awarded based on the difference between a student’s cost of attendance and an estimate of the student’s and/or family’s ability to pay these costs—called the expected family contribution (EFC)—determined by this formula. To apply for Title IV aid, students submit a Free Application for Federal Student Aid (FAFSA) on which they report their own and/or their families’ income, assets, and federal income tax expenses. State and other tax expenses, on the other hand, are not collected on the FAFSA form. Rather, Education uses a rate specified in law, subject to revision by Education—called the state and other tax allowance—to estimate such taxes.

Congress incorporated the state and other tax allowance as a part of the formula by including in the Higher Education Act a series of tables listing the applicable allowance for students and families by state. The tables list specific percentage values, or rates, that are used to exclude a portion of students’ and families’ incomes in determining their EFC. Thus, under the formula, the state and other tax allowance effectively reduces the EFC for students and families. The allowances were originally developed based on information compiled by the Department of Treasury’s Internal Revenue Service’s (IRS)–Statistics of Income (SOI) Division, specifically state and other taxes paid by taxpayers and reported on their federal income tax returns.

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<sup>1</sup>Title IV aid programs include Pell Grants, subsidized and unsubsidized Stafford loans, and Parent Loans for Undergraduate Students (PLUS), as well as Supplemental Educational Opportunity Grants (SEOG), Perkins loans, and Work-Study aid funded by the federal government and administered by participating institutions, commonly known as Campus-Based aid. About \$68 billion in aid was provided under Title IV programs during fiscal year 2003–2004; in addition, the College Board estimates that about \$29 billion was provided under state and institutional aid programs during award year 2003–2004.

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While the Department of Education (Education) is required by law to update the state and other tax allowance, its proposal to do so in 2003 was met with substantial concern because it was the first update in a number of years and because the update would likely affect the EFC for students and families and the amount of student aid received. In view of the uncertainty and controversy that followed Education's proposed update and Congress' decision to suspend the update for 1 year, you asked us to shed light on issues associated with the tax allowance question and the department's proposed 2003 update. This report examines (1) what tax data form the basis of the current tax allowance and what factors have affected regular updates, (2) the effect Education's proposed 2003 update would have had in award year 2004–2005 on financial assistance for students and families, (3) the extent to which current methods for determining the allowance accurately measure how much students and families have paid in state and other taxes, and (4) the strategies available to address any problems in deriving the allowance.

To do our work, we reviewed federal laws governing how Education is to update the state and other tax allowance and examined documents pertaining to this process. We used Education's aid applicant sample file from the 2002–2003 award year to estimate changes to the expected family contribution and Pell Grant awards nationally that would have resulted from Education's proposed update. We analyzed Education's Cost Estimation and Analysis Division's Statistical Abstract (CEAD STAB) data to estimate the proportion of financial aid recipients who could have experienced a change in their federal loans as a result of the proposed update. We assessed the reliability of the aid applicant and CEAD STAB data and determined that they were sufficiently reliable for our review. To obtain estimates on changes in state-provided need-based aid programs, we contacted two states, one with a likely high level of impact (Wisconsin) and the other with a likely low level of impact (Tennessee). To illustrate changes in students' receipt of Title IV aid and need-based aid provided by schools, we relied on estimates from four schools—two public institutions (University of Wisconsin-Madison and Middle Tennessee State University) and two private nonprofit institutions (Marian College of Fond du Lac and Carson-Newman College). To develop strategies to address the allowance's limitations in measuring students' and parents' state and other tax payments, we identified and analyzed alternative data sources that have state and local tax information. Finally, to gain further perspective on our objectives, we interviewed officials from the Advisory Committee on

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Student Financial Assistance (ACSFA)<sup>2</sup> and other federal officials, along with state, school, and national association officials as well as other student financial aid experts.

We conducted our review from October 2003 through November 2004 in accordance with generally accepted government auditing standards. For a more detailed explanation of our methodology, see appendix I.

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## Results in Brief

The current tax allowance is based on 1988 tax data due in part to Education's limited efforts to update the allowance. Congress incorporated the allowance into law in 1986 but did not establish a mechanism for updating the allowance until 1992. In amending the Higher Education Act in 1992, Congress directed Education to annually revise the allowance tables after reviewing the IRS' Statistics of Income file and determining the percentage of income that each state's taxes represent for those residents. While Education has published allowance tables annually since 1993, prior to 2004, it attempted to update the allowance tables twice—once in 1993 and once in 2003—but the latter update was suspended. As a result, the allowance—based on 1988 data that was first incorporated into the allowance tables in 1993—continued to be based on 1988 data. One reason the allowance was not updated more frequently was because Education did not annually seek data needed to update the allowance. For example, Education records indicate that it only sought data to update the allowance for 6 years of the 11-year period from 1993 to 2003. Another reason is that Education was unwilling to incur costs to acquire data and therefore did not consider alternatives when data were unavailable cost-free. Further, when the IRS did make more current tax data freely available via the Internet, starting in 2000, Education did not become aware of this fact and did not take steps to make use of the data until 2003. In addition, Education could not provide us with written procedures guiding staff on the routine steps necessary to update the tax allowance, nor did it maintain detailed records of its efforts to obtain data.

Education's proposed update would have decreased the state and other tax allowance for most states, which, in turn, would have increased the expected family contribution for a majority of student aid applicants; the

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<sup>2</sup>ACSFA was established by Congress with the enactment of the 1986 HEA amendments. The committee began its operation in 1988 by serving as a source of advice and counsel to Congress and the Secretary of Education on student financial aid policy.



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increase in expected family contribution would have, in turn, affected the allocation of federal aid and potentially state and institutional aid as well. We estimate that the update to the state and other tax allowance would have affected over half of the students applying for aid by increasing their EFC by about \$500 on average (or from an average of about \$9,620 to about \$10,115) for those who would have had an EFC increase. The amount of the EFC increase generally would have been larger for students from states with a larger decrease in their state and other tax allowance. For example, residents of Delaware, which would have had a 4 percentage point decrease in its allowance for families—the largest decrease among the states—would have experienced an EFC increase of about \$830 on average. With respect to Pell Grants, our national analysis shows that EFC increases from the update would have likely resulted in a decrease in Pell Grant awards for about 36 percent of students, and an additional 92,000 applicants (2 percent) would no longer have been eligible for the grant. Because these EFC changes would have affected Pell and other grant aid, Stafford and PLUS loan award amounts would in turn have been affected as well. Our case studies show that as EFC would have increased, subsidized Stafford loan awards would have decreased while unsubsidized Stafford loan awards would have increased. However, these case studies also show that most federal Campus-Based aid awards would have largely been unaffected by changes in the EFC. The effect of EFC changes on state and institutional grants would have varied because the EFC would have decreased in some states more than in others and because aid policies vary across states and institutions.

As a result of certain limitations of the SOI dataset for the purpose of calculating the allowance and problems with how Education uses this dataset, the current state and other tax allowance may not fully reflect the amount of taxes paid by students and families. The dataset itself is not ideally suited for calculating the allowance because it is limited to financial data from those who itemize their taxes, does not include state and local sales taxes, and is several years older than the income information reported by students and families on the FAFSA. SOI tax information may not be representative of families applying for financial aid because SOI compiles state and local tax data only for those who itemize their deductions, and itemizers may pay different effective tax rates for a given level of income than nonitemizers. Also, while state and local sales taxes were reflected in SOI data when Congress first incorporated the tax allowance, subsequent tax reform legislation eliminated the deductibility of sales taxes, effectively removing this information from the SOI dataset. Although more recent legislation provides taxpayers who itemize the choice of deducting either sales or

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income taxes, the law allows this only for the 2004 and 2005 tax years. Moreover, SOI tax data are generally released about 2 years after each tax year, so it is not possible to match this information with the income information that applicants report on the aid application. In addition to the limitations of the SOI dataset, Education's calculation of the allowance does not accurately consider the varying taxes paid by different income groups. As a result, Education's calculation of the allowance is overestimated for lower-income groups and underestimated for higher-income groups.

We identified four strategies to address some of the limitations associated with the tax allowance. While not exhaustive, these strategies include (1) continuing to use SOI data but with a revised method for calculating the allowance, (2) substituting SOI data with data from one of several alternative sources, (3) using the same allowance for all aid applicants without regard to state of residence, and (4) collecting information directly from the aid applicants themselves. The calculation, for example, might be modified to better reflect the taxes paid by different income groups than the current methodology. An option that would not require calculating an allowance would be to collect information about actual taxes paid directly from aid applicants by adding questions to the aid application, making it possible to collect income, asset, and tax information for the same year. Selecting among these strategies would require a number of considerations: the effect on federal expenditures, the impact on aid applicants, and the availability and reliability of tax data from alternative sources. These options could range in their impact on federal expenditures for the Pell Grant and other federal programs. For example, depending on the option chosen, the effect would range from a \$200 million decrease in Pell Grant expenditures to an increase of \$400 million in the 2004–2005 award year.

In this report, we recommend that the Secretary of Education improve the department's process for updating the state and other tax allowance by formalizing procedures, and documenting them in writing, to ensure that the Department of Education annually requests and obtains the most current tax data from SOI and revise the methodology for calculating the state and other tax allowance to more accurately consider the varying taxes paid by students and families. In addition, we recommend that the Secretary determine whether alternative methodologies and/or data—including those identified in this report—would allow the department in the future to more effectively calculate and update an allowance for state and other taxes.

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## Background

The Higher Education Act specifies a formula, known as the federal need analysis methodology, that is used to determine students' eligibility for federal student aid. A variety of federal grants and loans are available to assist students pay postsecondary expenses. While some federal aid is allocated based on a student's need for financial aid that is determined by the formula, other federal aid is allocated regardless of need. Many states and institutions have their own student aid programs, providing students an additional source of aid to help pay for postsecondary expenses.

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## Federal Need Analysis Methodology

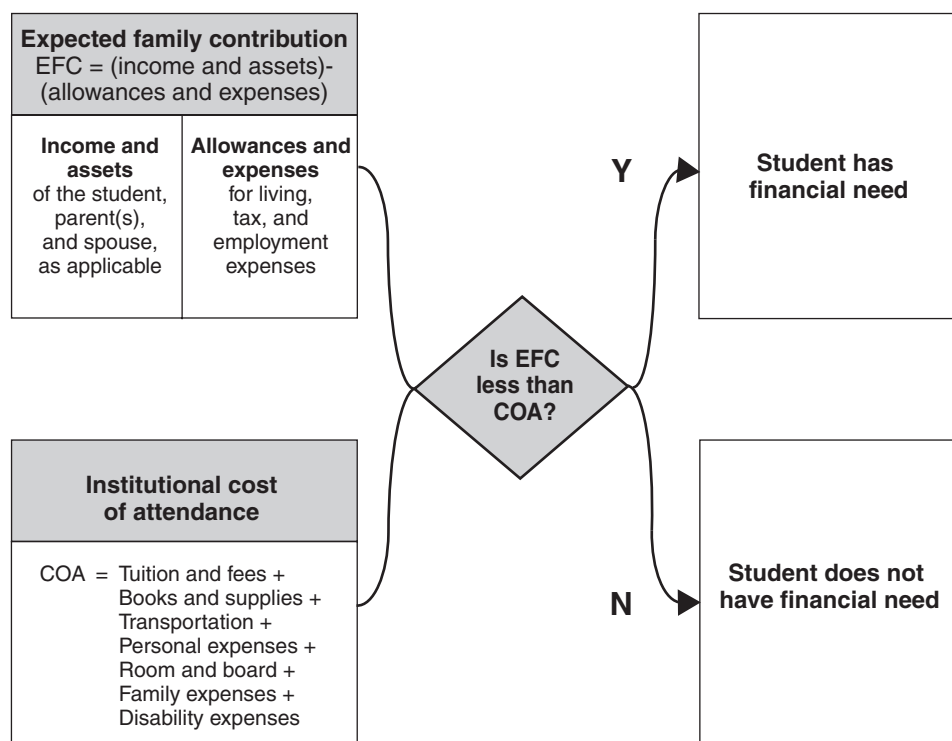
The federal need analysis methodology is used to determine a student's need for financial aid by comparing a student's and/or family's expected family contribution to the student's cost of attendance (COA). The EFC is defined as the household financial resources that are considered available to help pay for the student's postsecondary education expenses and is calculated by reducing the household financial resources reported by aid applicants on the Free Application for Federal Student Aid by certain expenses and allowances, including a state and other tax allowance. A student is classified as either financially dependent on his or her parents or independent in the financial aid process. This classification is important because it affects the factors used to determine a student's EFC. For dependent students, the EFC is based on both the students and parents' income and assets, as well as whether the family has other children enrolled in college. For independent students, the EFC is based on the student's and, if married, spouse's income and assets and whether the student has any dependents other than a spouse, and the number of family members enrolled in college.

To capture and reflect changes in students' and families' state and other tax liabilities, Education is responsible for annually updating the state and other tax allowance tables that were established in the HEA. Education determines the state and other tax allowance based on state and local tax information from federal tax returns filed with the Internal Revenue Service and compiled by its Statistics of Income Division. For dependent students and independent students without children, the allowance is composed of state and local income taxes. For parents of dependent students and independent students with children, personal property taxes and real estate taxes are added to the allowance.

The costs of attending a postsecondary institution that a student faces include tuition, fees, books, and living expenses. The student may be able to receive financial aid to help cover costs of attendance depending on where the student wants to enroll as well as the student's and family's financial resources. If the price of attendance is greater than the expected

family contribution, the difference between the two represents the student's financial need. If the EFC is greater than the price of attendance, the student is not eligible for federal need-based aid but may still qualify for aid that is not based on need. (See fig. 1.)

**Figure 1: Federal Student Need Analysis Methodology**



Source: GAO analysis of the HEA.

Note: Not all assets are considered under the federal student need analysis methodology. For example, the methodology does not include the principal place of residence.

Postsecondary institutions are responsible for determining individual student's eligibility for specific sources of financial aid and compiling these sources to meet each student's need—a process known as packaging. Part of this process involves deciding which types or sources of aid should be awarded first—for example, grants or loans, federal or nonfederal aid, need-based or non-need-based aid. In awarding aid, institutions typically first package any grants for which the student is eligible and then offer loans. Another factor considered in packaging aid is

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whether to reduce aid from any source in a student's package to offset an aid award from another source.

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## Federal Aid Provided under Title IV of the Higher Education Act

Title IV of the HEA, as amended, authorizes the following federal aid programs:

- **Pell Grants**—Pell Grants are grants to low- and middle-income undergraduate students who have federally defined financial need and who are enrolled in a degree or certificate program. In general, a student's Pell Grant award is determined by subtracting a student and family's EFC from either the maximum allowable Pell Grant award, currently \$4,050, or the COA, whichever is less.
- **Stafford and PLUS Loans**—These loans may be made by private lenders and guaranteed by the federal government (guaranteed loans) or made directly by the federal government through a student's school (direct loans).
  - *Subsidized Stafford Loans*—Subsidized loans are made to students enrolled at least half-time in an eligible program of study that have federally defined financial need. The federal government pays the interest costs on the loan while the student is in school. Subsidized loans are subject to certain maximum loan limits and are awarded based on the difference between a student's COA less EFC and other awards of student aid including Pell Grants, state or institutional grants, etc. A change in a student's EFC may—or may not—affect the amount of a subsidized loan award depending on its effect on other components of the student's financial aid package.
  - *Unsubsidized Stafford Loans*—Unsubsidized Stafford loans are non-need-based loans made to students enrolled at least half-time in an eligible program of study. Although the terms and conditions of the loan (e.g., interest rates) are the same as those for subsidized loans, students are responsible for paying all interest costs on the loan. While Stafford unsubsidized loans are not need-based aid, a change in a student's or family's EFC may nonetheless affect the amount a student may borrow. Unsubsidized loans are awarded based on the difference between a student's COA less other awards of student aid—including Pell Grants, state and institutional grants, and subsidized loans. These loans are subject to the combined maximum loan limits for subsidized and unsubsidized loan awards. A change in a student's EFC that affects Pell Grant, subsidized loan, or state or institutional grant awards may therefore affect the amount of an unsubsidized loan award.

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- *PLUS Loans*—PLUS loans are non-need-based loans made to creditworthy parents of dependent undergraduate students enrolled at least half-time in an eligible program of study. Borrowers are responsible for paying all interest on the loan. Like unsubsidized loans, PLUS loans are generally awarded based on the difference between a student's COA less other awards of student aid including unsubsidized loan awards. As is the case with unsubsidized loans, a change in a student's or family's EFC can affect the amount of a PLUS loan that a parent may borrow.

Dependent students may borrow combined subsidized and unsubsidized Stafford loans up to \$2,625 in their first year of college, \$3,500 in their second year, and \$5,500 in their third year and beyond. Independent students and dependent students without access to PLUS loans can borrow combined subsidized and unsubsidized Stafford loans up to \$6,625 in their first year, \$7,500 in their second year, and \$10,500 in their third year and beyond. There are aggregate limits for an entire undergraduate education of \$23,000 for dependent students and \$46,000 for independent students and dependent students without access to PLUS loans.

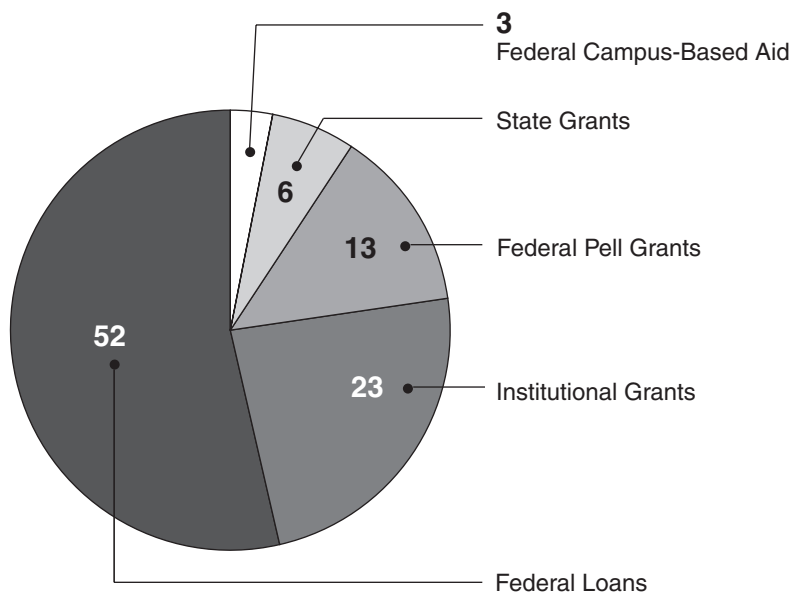
- **Campus-Based Aid**—Participating institutions receive separate allocations for three programs from Education. Funds are distributed to institutions in part on the basis of the institution's previous allocation levels and in part on the basis of the aggregate financial need of eligible students in attendance. The institutions then award the following aid to students:
  - *Supplemental Educational Opportunity Grants (SEOG)*—SEOG grants are grants for undergraduate students with federally defined financial need. Priority for this aid is given to Pell Grant recipients. In general, an annual SEOG award may not be less than \$100 and may not exceed \$4,000.
  - *Perkins Loans*—Perkins loans are low-interest (5 percent) loans to undergraduate and graduate students. Interest does not accrue while the students are enrolled at least half-time in an eligible program. Priority is given to students who have exceptional federally defined financial need. Students can borrow up to \$4,000 for any year of undergraduate education with an aggregate limit of \$20,000.
  - *Work-Study*—Work-Study is employment in on- or off-campus jobs for which students who have federally defined need earn at least the current federal minimum wage. The institution or off-campus employer pays a portion of their wages, while the federal government pays the

remainder. Work-study is awarded based on the difference between a student's need less other aid awarded.

### Students Received about \$98 Billion in Federal, State and Institutional Aid in 2003–2004.

Students received an estimated \$98 billion in financial aid in award year 2003–2004 from the Title IV federal aid programs as well as state and institutional grants, of which the federal government provided more than two-thirds. Federal assistance is composed of both loans and grants, and most federal grant aid is need-based. States distributed about \$6 billion in student aid.<sup>3</sup> Institutions provided about \$23 billion in the forms of need-based grant and merit-based aid. (See fig. 2.)

**Figure 2: Estimated Amount of Student Aid Awarded in 2003–2004, by Source of Aid**



In billions of dollars

Source: Department of Education, Fiscal Year 2005, Justifications of Appropriation Estimates to the Congress, Volume II. College Board, Trends in Student Aid, 2004.

Notes: Federal aid is based on fiscal year figures, and state and institutional aid is based on award year amounts. Because of rounding, the sum of aid awarded under the various programs in the figure above is less than the actual total of \$97.9 billion.

<sup>3</sup>The College Board estimates that about 75 percent of state aid was need-based.

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## The Current Tax Allowance Is Based on 1988 Data Due In Part to Education's Limited Efforts in Updating the Allowance

The current state and other tax allowance is based on 1988 tax data due in part to Education's limited efforts in updating the allowance. While Education has been required to revise the allowance tables annually since 1993, prior to 2004 it had attempted to update the allowance twice—once in 1993 and once in 2003—but the latter update was suspended. As a result, the 1988 tax data used for the 1993 update are still in effect. The lack of updates is primarily because Education did not annually seek data needed to update the allowance and did not establish effective internal control to guide the updating process. In addition, Education did not consider alternatives when data were not readily available.

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## The Current Tax Allowance Is Based on 1988 Tax Data

While Education has published the allowance tables used to award Title IV aid in the Federal Register annually since 1993, prior to 2003 these tables had been based on 1988 tax return information compiled by SOI. Congress incorporated the state and other tax allowance into the HEA in 1986 on the basis of 1983 SOI data but did not establish a mechanism to update the basis of the allowance until 1992. Amending the Higher Education Act in that year, Congress directed Education to “publish in the Federal Register...revised table[s] of State and other tax allowances” annually, and to “develop such revised table[s] after review of the Department of the Treasury’s Statistics of Income file and determination of the percentage of income that each State’s taxes represent” for those residents. Education published the first updated tables of the allowance in 1993 after reviewing SOI’s 1988 tax data, the most recent data available at that time. Tables 1 and 2 present these revised tax allowances, by dependency status and state.



**Table 1: State and Other Tax Allowance Established for Parents of Dependents and for Independents with Children, Published in 1993**

State of residence	Income level (percentage)	
	Less than \$15,000	\$15,000 or more
Alaska, Nevada, Tennessee, Texas, Wyoming	3	2
Florida, Louisiana, South Dakota, Washington	4	3
Alabama, Mississippi	5	4
Arizona, Arkansas, Connecticut, Illinois, Indiana, Missouri, New Mexico, North Dakota, Oklahoma, West Virginia	6	5
Colorado, Georgia, Idaho, Kansas, Kentucky, New Hampshire, Pennsylvania	7	6
California, Delaware, Hawaii, Iowa, Montana, Nebraska, New Jersey, North Carolina, Ohio, South Carolina, Utah, Vermont, Virginia	8	7
Maine, Maryland, Massachusetts, Michigan, Minnesota, Rhode Island	9	8
District of Columbia, Oregon, Wisconsin	10	9
New York	11	10
Other areas	4	3

Source: 1993 Federal Register.

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**Table 2: State and Other Tax Allowance Established for Dependents and Independents without Children, Published in 1993**

<b>State of residence</b>	<b>Percentage</b>
Alaska, Nevada, South Dakota, Tennessee, Texas, Washington, Wyoming	0
Florida, New Hampshire	1
Connecticut, Illinois, Louisiana, North Dakota	2
Alabama, Arizona, Mississippi, Missouri, New Jersey, Pennsylvania	3
Arkansas, Colorado, Georgia, Indiana, Kansas, Michigan, Nebraska, New Mexico, Oklahoma, Rhode Island, Vermont, Virginia, West Virginia	4
California, Delaware, Idaho, Iowa, Kentucky, Maine, Massachusetts, Montana, North Carolina, Ohio, South Carolina, Utah, Wisconsin	5
Hawaii, Maryland, Minnesota, Oregon	6
District of Columbia, New York	7
Other areas	2

Source: 1993 Federal Register.

Although Education has published allowance tables annually since 1993, the published allowances continued to be based on 1988 SOI data until 2003, when new tables based on 2000 SOI tax data were published. Education intended to use the new tables to award student aid in 2004–2005 but did not do so in light of legislation that prohibited it from doing so. As a result, the state and other tax allowance used to award financial aid continued to be based on 1988 tax data.<sup>4</sup>

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<sup>4</sup>On December 23, 2004, about 6 months past the deadline specified by the HEA for updating the allowance, Education published updated state and other tax tables for award year 2005-2006 using 2002 SOI tax data. According to Education, it delayed the publication of these tables in order to complete a thorough review of available SOI information and to consider the findings of a congressionally mandated review by the Advisory Committee on Student Financial Assistance on the efficiency, effectiveness, and fairness of current procedures to update formula offsets and allowances.

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Education Did Not Annually Seek Data to Update the Allowance, Consider Alternatives when Such Data Were Not Readily Available, or Establish Effective Internal Control to Guide the Updating Process

Prior to 2003, Education's efforts to update the allowance were limited: It neither annually sought data to update the allowance nor pursued alternatives when SOI data it had used previously were not readily available. According to Education's records, the department only sought data to update the allowance for 6 of the 11 years since it was first directed to annually update the tax allowance.<sup>5</sup> SOI records also document that Education did not routinely request data. Even when Education did request data, it is difficult to determine exactly what data were requested because such requests were not made in writing. Rather, Education's documentation consists of informal file notes of telephone contacts with SOI officials that are minimal and do not describe the substance of what was discussed. Furthermore, as of the end of our audit work, Education could not provide us with written procedures guiding staff on the routine steps necessary to update the tax allowance or to identify what data would be needed to update the allowance.

After Education published the 1993 update to the allowance, on the basis of 1988 SOI tax data, Education sporadically sought data from SOI to develop subsequent updates. According to both Education and SOI officials, however, SOI would not have provided these data on a cost-free basis. According to SOI officials, the 1988 tax data was produced to illustrate the type of information SOI could develop that clients, such as states, might find useful and be willing to purchase in the future. SOI never intended to produce the data as a regular series, and the fact that it was useful for Education's purposes was coincidental. Education's records do not indicate what actions the agency undertook when it first learned that SOI would not provide data cost-free, including the extent to which it considered paying for such data. Education officials told us, however, that they never sought a cost estimate from SOI because they did not wish to pay for the data.<sup>6</sup> Moreover, Education officials told us that they did not consider using data other than SOI data because they believed Education did not have the discretion to do so under the law. Beginning in 2000, about 1 year after Education last contacted SOI, SOI began to annually publish on its Web site data that Education could have used to update the

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<sup>5</sup>Education did not have records to show that it had requested SOI data in 1997, 1998, 2000, 2001, and 2002.

<sup>6</sup>According to SOI officials, Education had options in obtaining the data. Requesting SOI to tabulate state and other taxes from all tax returns would have been a lower-cost option because SOI already had the procedures in place to make this tabulation.

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allowance.<sup>7</sup> However, Education was unaware of these data because it did not contact SOI again until 2003 for the purpose of making its proposed update that year.

As we have pointed out in numerous reports, weak internal control can be a contributing factor to, or cause of, insufficient execution of agency responsibilities. Collectively, internal controls are an integral component of an organization's management intended to provide reasonable assurance that, among other things, operations are effective and efficient. Education's failure to fully document its attempts to update the allowance over the past several years and its lack of written procedures to guide staff efforts to ensure that they take the steps necessary to update the allowance, such as a checklist, are indicative of an ineffective system of internal control. Our *Standards for Internal Control in the Federal Government* provides guidance to agencies to help them assess, evaluate, and implement effective internal controls that can be helpful in improving their operational processes.<sup>8</sup>

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## Education's Proposed Update Would Have Increased Expected Family Contributions, Thereby Affecting the Allocation of Federal Aid and Potentially State and Institutional Aid as Well

Under the proposed update, the state and other tax allowance would have decreased for most states; the change in the allowance, in turn, would have increased the amount that families are expected to contribute by about \$500 on average for a majority of student aid applicants. Of those aid applicants with an increase in their EFC, some would have received lower Pell Grant awards or would have become ineligible for Pell Grants. Increases in EFCs would not only have affected Pell Grants but possibly other forms of aid, and these effects in turn would have affected Stafford and PLUS loan awards. The extent to which the proposed update would have affected federal Campus-Based, state, and institutional aid would likely have varied according to factors such as aid awarding policies and changes in a state's allowance.

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<sup>7</sup>SOI currently provides state and other tax data by state for tax years 1997 to 2002 on its Web site.

<sup>8</sup>GAO, *Standards for Internal Control in the Federal Government*, [GAO/AIMD-00-21.3.1](#) (Washington, D.C.: November 1999).

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## Under the Proposed Update, Expected Family Contributions Would Have Increased by about \$500, on Average, for a Majority of Student Aid Applicants

Education's tax allowance update would generally have increased the dollar amount that families would be expected to contribute to a student's education, but the percentage of student aid applicants affected would have varied by state and household income, and the size of the increase would have varied by state. EFCs would increase by about \$500 on average for those with an increase (from an average of about \$9,620 to about \$10,115), but aid applicants from states with larger decreases in their tax allowance rates would have had a larger increase in their EFCs.<sup>9</sup> Table 3 shows the proposed changes to the allowance and the estimated EFC impacts, by state. For example, Delaware would have had a 4 percentage point decrease in its tax allowance for families earning \$15,000 or more<sup>10</sup>—from 7 percent to 3 percent—and a 2 percentage point decrease for individuals,<sup>11</sup> resulting in an EFC increase of \$834 on average, among applicants in Delaware with an increase. In contrast, Nevada would have had a 1 percentage point decrease in the allowance for families (and a 1 percentage point increase for individuals), and its residents would have had an expected contribution increase of \$186 on average. Similarly, the percentage of applicants affected would have varied from state to state. In Wisconsin, for example, the percentage of student aid applicants affected would have been slightly over 80 percent, in contrast to Connecticut, where just under 1 percent of applicants would have been affected. With regard to household income, over 90 percent of families earning more than \$25,000 would have been expected to contribute more under the update, while only about 20 percent of families earning \$25,000 or less would have been expected to contribute more. Across all states, we estimate that the update would have affected more than 60 percent of aid applicants and would have resulted in an EFC increase of \$3.5 billion collectively in award year 2004–2005.

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<sup>9</sup>The percentage of those with a decrease in the amount they are expected to contribute is less than 1 percent.

<sup>10</sup>"Families" includes parents of dependent students and independent students with children.

<sup>11</sup>"Individuals" includes dependent students and independent students without children.

**Table 3: Proposed Allowance Changes and Estimated EFC Impacts by State**

State	Percentage point change in the state and other tax allowance		Estimated percentage of students with an increase in their EFC	Estimated average EFC dollar increase for those with an increase
	Families	Individuals		
Alabama	-2	-1	59	311
Alaska	-1	0	62	261
Arizona	-2	0	47	385
Arkansas	-3	-1	62	410
California	-2	0	45	406
Colorado	-3	-1	75	571
Connecticut	0	+2	1	76
Delaware	-4	-2	80	834
District of Columbia	-3	-1	60	485
Florida	-2	-1	64	298
Georgia	-2	-1	67	384
Hawaii	-4	-2	68	746
Idaho	-2	-1	69	321
Illinois	-2	0	60	459
Indiana	-2	-1	75	406
Iowa	-4	-2	78	781
Kansas	-3	-1	77	531
Kentucky	-2	-1	66	340
Louisiana	-2	-1	61	415
Maine	-3	-1	78	610
Maryland	-2	-1	75	462
Massachusetts	-3	-1	79	717
Michigan	-4	-1	73	746
Minnesota	-3	-2	81	673
Mississippi	-2	-1	53	283
Missouri	-2	0	60	425
Montana	-3	-2	69	515
Nebraska	-4	-1	79	716
Nevada	-1	+1	50	186
New Hampshire	-3	0	73	808
New Jersey	-1	+1	63	263
New Mexico	-3	-1	62	432

State	Percentage point change in the state and other tax allowance		Estimated percentage of students with an increase in their EFC	Estimated average EFC dollar increase for those with an increase
	Families	Individuals		
New York	-3	-2	67	639
North Carolina	-3	-1	68	493
North Dakota	-4	-1	78	736
Ohio	-3	-1	73	589
Oklahoma	-2	-1	65	308
Oregon	-3	-1	69	519
Pennsylvania	-3	0	67	713
Rhode Island	-3	0	60	697
South Carolina	-4	-2	67	718
South Dakota	-3	0	64	589
Tennessee	-2	0	52	371
Texas	-1	0	51	189
Utah	-3	-1	73	345
Vermont	-3	-1	80	614
Virginia	-3	-1	73	623
Washington	-2	0	53	429
West Virginia	-3	-2	68	527
Wisconsin	-4	-1	81	802
Wyoming	-2	0	61	408

Source: GAO analysis.

Notes: Dependent students whose state of residence is different from that of their parents were counted as being from their parents' state. Since the EFC for a family is based upon both the parents' and the student's income, the EFC changes reported above for each state may reflect not only the change in the allowance for that state but also the change for the state of residence for students attending school in another state. For example, Connecticut, which has an increased allowance, may have families with an EFC increase because the children of those families may be attending school and residing in another state with a decreased allowance.

The sampling errors for the average EFC increase for Alaska, Connecticut, Delaware, District of Columbia, Hawaii, Idaho, Maine, Montana, Nevada, New Mexico, North Dakota, Rhode Island, South Dakota, Vermont, and Wyoming vary from slightly over 5 percent (for Maine and New Mexico) to 34 percent (for Connecticut). All others have a sampling error at or below 5 percent.

**If Expected Family Contributions Had Increased, Some Aid Applicants Would Have Received Lower Pell Grant Awards or Become Ineligible for Them**

Had Education’s proposed update been adopted, thus raising the expected family contribution for aid applicants, 38 percent of recipients would have either seen a decrease in their Pell Grant award or would have become ineligible for the grant altogether; taken together, the average reduction among those with a decrease in their amount would have been \$144. In particular, 36 percent of recipients would have seen a decrease of \$133 on average in their Pell Grant award but would have remained eligible for the awards in award year 2004–2005. Another 92,000 recipients, or 2 percent of those receiving Pell Grants, would no longer have been eligible and typically would no longer have received the minimum Pell Grant award of \$400. As a result, the proposed update would have decreased overall federal Pell Grant expenditures by \$290 million. Students residing in states with larger decreases in their allowances would have faced larger decreases in Pell Grant amounts and are more likely to have become ineligible for them. Table 4 shows the average decrease in Pell Grant awards for those who would have seen a decrease in their Pell Grant award or who would have become ineligible for them, by state.

**Table 4: Percentage with a Pell Grant Decrease and Average Decrease by State, Including Those No Longer Eligible for the Award**

State	Percentage with a decrease in Pell <sup>a</sup>	Average dollar decrease in Pell <sup>b</sup>	State	Percentage with a decrease in Pell <sup>a</sup>	Average dollar decrease in Pell <sup>b</sup>
Alabama	38	-111	Montana	48	-174
Alaska	28	-83	Nebraska	54	-216
Arizona	34	-115	Nevada	25	-80
Arkansas	42	-160	New Hampshire	51	-175
California	29	-121	New Jersey	26	-90
Colorado	47	-156	New Mexico	42	-155
Connecticut	0 <sup>c</sup>	-100	New York	45	-175
Delaware	58	-194	North Carolina	46	-162
District of Columbia	39	-174	North Dakota	48	-229
Florida	40	-107	Ohio	46	-163
Georgia	43	-104	Oklahoma	41	-115
Hawaii	47	-216	Oregon	44	-163
Idaho	42	-123	Pennsylvania	46	-179
Illinois	38	-118	Rhode Island	41	-162
Indiana	46	-119	South Carolina	49	-194
Iowa	57	-224	South Dakota	41	-176



State	Percentage with a decrease in Pell <sup>a</sup>	Average dollar decrease in Pell <sup>b</sup>	State	Percentage with a decrease in Pell <sup>a</sup>	Average dollar decrease in Pell <sup>b</sup>
Kansas	53	-168	Tennessee	36	-110
Kentucky	41	-118	Texas	24	-83
Louisiana	35	-113	Utah	47	-148
Maine	54	-174	Vermont	49	-161
Maryland	46	-112	Virginia	47	-170
Massachusetts	48	-172	Washington	34	-115
Michigan	47	-199	West Virginia	47	-168
Minnesota	57	-181	Wisconsin	54	-226
Mississippi	35	-120	Wyoming	40	-134
Missouri	40	-122	<b>Total USA</b>	<b>38</b>	<b>-144</b>

Source: GAO analysis.

<sup>a</sup>The sampling errors for Alaska, Delaware, District of Columbia, Vermont, and Wyoming vary from 5.2 percentage points (for Delaware) to 5.6 percentage points (for Alaska). All others are at or below 5 percentage points.

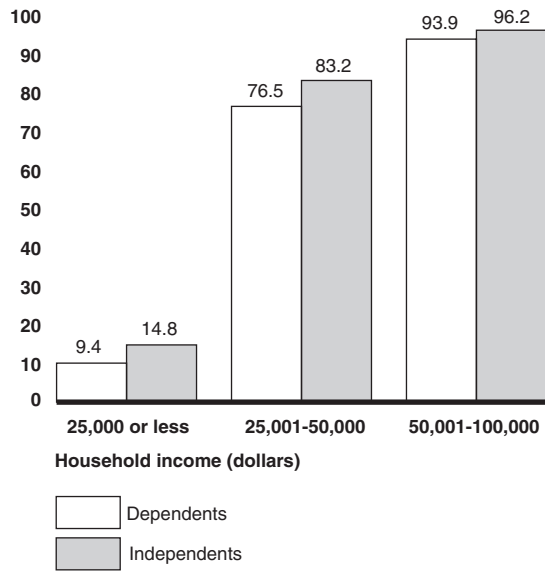
<sup>b</sup>The average reflects the reduction for those with a decrease as well as those who would have lost eligibility. The sampling errors for Alaska, Delaware, District of Columbia, Hawaii, Idaho, Maine, Montana, Nebraska, Nevada, North Dakota, New Hampshire, Rhode Island, South Dakota, Vermont, and Wyoming vary from slightly over 5 percent (for Nebraska) to 15 percent (for Alaska). All others are at or below 5 percent.

<sup>c</sup>The actual figure for Connecticut is 0.1 percent, which rounds to 0 percent for the purposes of this table.

Students with relatively higher household incomes would have been more likely to face a decrease and would have faced substantially greater decreases in their Pell Grant awards than those with lower household incomes.<sup>12</sup> On the other hand, the impact of the proposed update would not seem to have varied much by whether students are financially independent of their families. Figures 3 and 4 show the proportion of those facing a decrease in Pell awards and the median amount of such decreases, by income group.

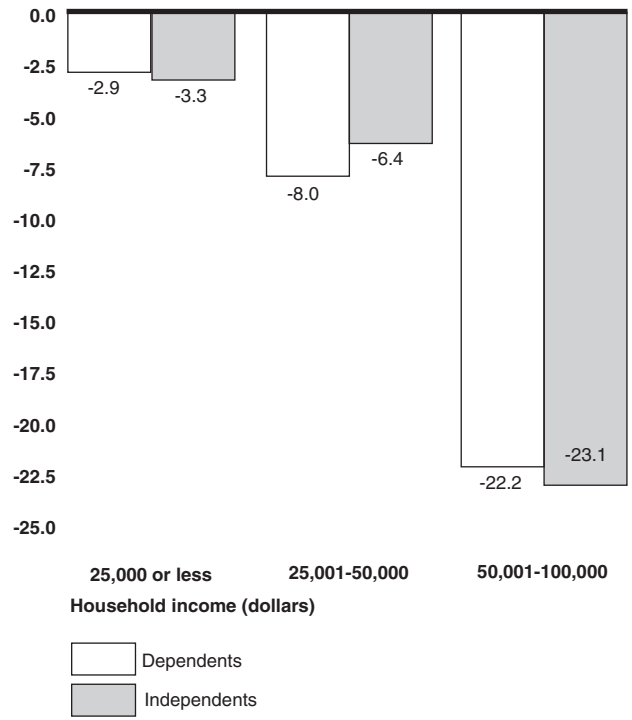
<sup>12</sup>High-income families would very rarely have qualified for Pell Grants and thus would not have been affected.

**Figure 3: Percentage of Recipients with a Decrease in Pell Award**



Source: GAO analysis of the FAFSA applicant file.

**Figure 4: Median Percentage Change in Amount of Pell Award for Those with a Decrease**



Source: GAO analysis of the FAFSA applicant file.

Note: The sampling error for Independents earning \$50,001 to \$100,000 is 7 percentage points. The error for all other categories is 5 percentage points or less.

## Changes in EFCs Could Have Affected Stafford and PLUS Loan Awards

Stafford and PLUS loans could have been affected due to EFC changes as well. Those applicants for whom a change in EFC would have resulted in a change in other aid received—including Pell, state, and institutional grants—would likely have seen a change in their federal loans. This is because federal loan amounts depend, in part, on the amount of other aid received. However, even if a change in EFC would not have changed other aid received,<sup>13</sup> some students may still have seen a change in their subsidized Stafford loan amount.<sup>14</sup> Among those currently receiving federal

<sup>13</sup>Because some states and institutions do not use the federal EFC to award state and institutional aid, a change in the federal EFC may not affect the amount of such aid.

<sup>14</sup>Subsidized Stafford loan amounts, unlike unsubsidized Stafford and PLUS loan amounts, are directly determined by the EFC, subject to an annual maximum.

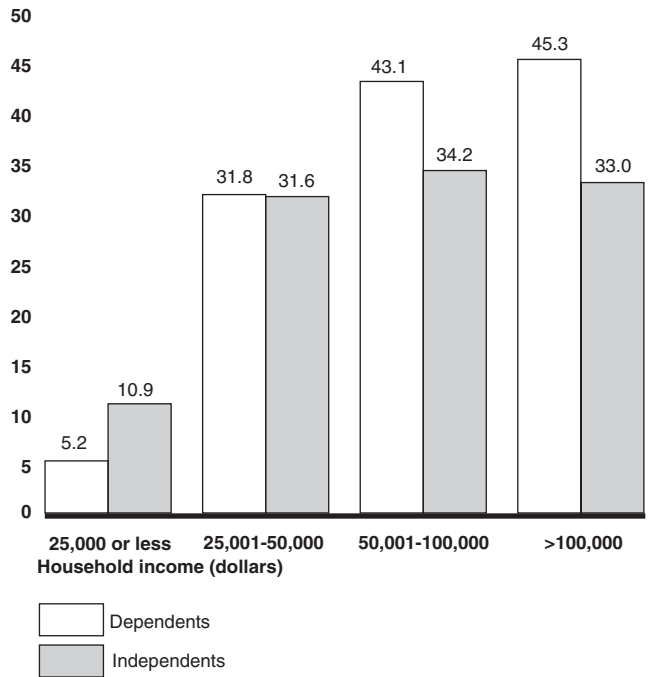
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loans, we estimate that over 20 percent of subsidized and unsubsidized Stafford loan holders and about 85 percent of PLUS loan holders could have seen a change in their loan amount due to their EFC increase. (See app. I for an explanation of our estimation methodology.) Figure 5 shows the proportion of undergraduate Stafford loan recipients who could have had a change in their subsidized loan amounts, by income and dependency status. Our case studies of students at selected schools for whom a change in EFC would have resulted in a change in their federal loans show that as the EFC would have increased, subsidized loans would have decreased, and unsubsidized loans would have increased in response to the decreases in subsidized loans and other forms of financial aid. In addition, PLUS loans could have made up for these decreases as well.<sup>15</sup>

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<sup>15</sup>PLUS loans were not packaged by our case study schools. However, because families can borrow up to their EFC (plus any remaining or “unmet” need) using PLUS loans and because EFCs typically would have increased under the proposed update, we estimate that PLUS loan amounts could have increased as well. Furthermore, in cases where a student is already receiving the maximum unsubsidized loan amount, PLUS loans could have compensated for decreases in other forms of financial aid.

**Figure 5: Percentage of Students Likely to Have Had a Change in Subsidized Stafford Loans**



Source: GAO analysis of CEAD STAB data.

**The Extent to Which the Proposed Update Would Have Affected the Allocation of Federal Campus-Based, State, and Institutional Need-Based Aid Would Likely Have Varied**

**Institutions Have Discretion in Allocating Federal Campus-Based Aid, So the Effects of the Proposed Update Would Likely Have Varied**

While changes in the EFC could have affected Campus-Based awards, institutions have some discretion in allocating federal Campus-Based aid; as a result, the effects of the proposed update would have likely varied across institutions. The effect of the update on state and institutional need-based aid would also have varied based on differences in state and institutional aid awarding policies and on how much the tax allowance would have changed for each state.

Our case studies of students at the four selected schools show that even though the EFC for the majority of students would have changed, Campus-Based awards would tend not to have been affected by the proposed update. However, some students would have been affected, and the effect would have varied across schools, due in part to differences in award policies. Specifically, had the proposed allowance been implemented for 2004–2005, we estimate that less than 15 percent on average of case study students receiving Supplemental Educational Opportunity Grants and

Work-Study aid would have faced a lower award.<sup>16</sup> The effects would have varied significantly by school because of differences in schools' eligibility criteria for Campus-Based awards and the maximum awards provided. For example, eligibility for SEOG at one case study school is capped at an EFC of \$3,850, whereas eligibility at another is at an EFC of \$2,800, so a student whose EFC increased from \$2,700 to \$2,900 would have become ineligible for an SEOG at one school but not the other. As another example, one school offers \$3,000 in Work-Study, and another limits the amount to \$1,000, thereby demonstrating the different amounts involved. With regard to Perkins loans, we estimate that about 20 percent of students at the case study schools on average would have seen a decrease in their loan amount due to the proposed update. For students who see decreases in their Perkins loans, the decrease would have been about \$1,200 on average but would have varied significantly by school due to differences in eligibility criteria. Table 5 shows the case study results of changes in these three school-administered federal programs.

**Table 5: Estimated Impacts in Campus-Based Aid for Case Study Schools**

Form of Campus-Based aid	Percentage with a decrease	Average dollar decrease for those affected
Supplemental Educational Opportunity Grants	11	500
Work-Study	14	1,200
Perkins Loans	21	1,200

Source: GAO analysis of case study results.

Note: Dollar figures were rounded to the nearest \$100. While an increase in EFC may result in decreases in Campus-Based awards for some recipients, the amount of such decreases would become available for redistribution to others.

The Effect of the Proposed Update on State Need-Based Aid Would Have Varied Based on State Policies and Changes in the Tax Allowance

The majority of states use the federal need analysis methodology to allocate state need-based aid; as a result, the proposed update could have affected the amount of and the extent to which students receive state grants. The effect would have varied by state due to, among other factors, differences in changes to the tax allowance by state and differences in state award policies. In Wisconsin, for example, we estimate that over 50 percent of state aid award recipients in our case study would have seen

<sup>16</sup>Three of the four case study schools reported SEOG information, and all four schools reported Work-Study and Perkins information.

a decrease in their state award. In contrast, in Tennessee, just over 10 percent of recipients in our case study would have seen a decrease in their state award. The average reduction for Wisconsin students would have been less than that for Tennessee students due to the differences in how the states compute awards: Wisconsin's computation decreases aid for each dollar increase in EFC by less than Tennessee's computation. (See table 6.)

**Table 6: Estimated Impacts in State Need-Based Aid for Two States**

	Percentage with a lower amount	Average dollar decrease
Wisconsin	53	-115
Tennessee	13	-220

Source: GAO analysis of case study results.

Note: Dollar figures are rounded to the nearest \$5.

**The Effect of the Proposed Update on Institutional Need-Based Aid Would Vary Based on Institutional Policies and Changes in the EFC and Other Factors**

As with state aid, the effect of the proposed update on the need-based aid provided by schools themselves would have varied significantly across schools due to, among other factors, differences in institutional award policies and changes in the EFC of students attending the institutions. However, the impact would be limited to schools that use the federal methodology to award aid. Since institutional aid may change as a result of both changes in the EFC and changes in other aid awarded, the effect of the increased EFC on institutional aid cannot be easily determined. For example, a school that bases its award solely on EFC might decrease its award as a result of an EFC increase, while a school that bases institutional aid on other aid awarded might increase the institutional award for some students. At the two private nonprofit schools included in our case studies,<sup>17</sup> our results show that while more than 20 percent of students at each school would have faced a decrease in institutional need-based aid under the proposed allowance, more than 10 percent of students at these same schools would have received more institutional aid. Overall, case study students attending one private nonprofit school would have seen a decrease in institutional aid of almost \$800 on average, whereas

<sup>17</sup>The two public schools do not offer need-based institutional aid.

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students at the other school would have seen a decrease of over \$425 on average.<sup>18</sup>

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## The Current Allowance May Not Capture the Taxes Paid Due to the Type of Data and Methodology in Use

As a result of certain limitations of the SOI dataset for the purpose of calculating the allowance and problems with how Education uses this dataset, the current state and other tax allowance may not reflect the amount of taxes paid by students and families. The dataset is limited for this purpose because the taxpayers included in it are generally not representative of financial aid applicants, the tax data it provides do not include all state and other taxes paid by students and families, and the tax data are several years older than the income information reported by students and families on the FAFSA. In addition to the limitations of the SOI dataset, Education does not make full use of the dataset to account for the varying tax rates paid by taxpayers in different income groups.

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## The Tax Data Used for the Allowance May Not Represent Those Taxes Paid by Financial Aid Applicants

The tax allowance calculated by Education may not reflect the taxes paid by most financial aid applicants because it is drawn only from those who itemize deductions on federal income tax returns—filers who may be taxed at a different rate than those who do not itemize. Because many FAFSA applicants have lower income—and taxpayers in lower income groups tend not to itemize—many applicants may not itemize. Specifically, we estimate that about 63 percent of FAFSA applicants do not itemize.<sup>19</sup> Further, itemizers and nonitemizers within the same gross income group may have different state and other tax rates. On the one hand, for example, itemizers may be more likely to own a home than nonitemizers and thus would have a higher state and local tax liability due to real estate taxes. Conversely, those who itemize on their federal tax return may be more likely to itemize on their state return—and therefore have larger deductions, a lower state taxable income, and thus a lower state income tax than those who do not itemize on their federal return.

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<sup>18</sup>Case studies show that the majority of aid recipients would have seen a decrease in their need-based aid equal to or less than their EFC increase. However, for about 8 percent of aid recipients, the decrease in need-based aid would have been more than 150 percent of their EFC increase.

<sup>19</sup>This estimate is made using 2001 SOI data on the percentage of tax returns itemized by various income groups and FAFSA Applicant File data on the income distribution in 2001 of FAFSA applicants. To make this estimate, we assumed that FAFSA applicants within the income groups specified by SOI have the same likelihood of itemizing their tax return as overall taxpayers do.



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## Data Used for the Current Allowance No Longer Include State and Local Sales Taxes

Although sales taxes were included in SOI data when Congress formally provided for a tax allowance in the 1986 HEA amendments,<sup>20</sup> tax reform legislation subsequently disallowed the deduction of state and local sales taxes, effectively eliminating them from this dataset. Therefore, the data collected by SOI for tax year 1987 and beyond have not reflected all state and other taxes. Excluding sales taxes may cause the allowance to be lower than it otherwise would be, especially for students and families who reside in states where sales taxes compose a significant portion of state and local revenue. In October 2004, Congress passed and the President signed the American Jobs Creation Act of 2004, which provides taxpayers who itemize deductions the choice of claiming a state and local tax deduction for either sales or income taxes, but only for tax years 2004 and 2005. As a result, the data collected by SOI for tax years 2004 and 2005 will likely include a mix of sales and income tax deductions reflecting the choices made by tax filers. Were these data used to update the allowance, the deductibility of sales taxes could increase the allowance for students and families, especially for those who reside in states where sales taxes compose a significant portion of state and local revenue. Regardless, the SOI data will not reflect both state and local sales and income taxes paid by individual taxpayers, as was the case prior to tax year 1987.

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## SOI Tax Data Are Several Years Older than Reported Income Information

SOI data available for any given award year are several years older than the income information reported by aid applicants on the FAFSA. For example, in its proposed update for award year 2004–2005 that was published in May 2003, Education used 2000 SOI data, the most recent available at the time of its data request. Because applicants would report 2003 income information for award year 2004–2005, had the allowance been implemented, there would have been a mismatch of 3 years between the tax data and the income data.<sup>21</sup> Table 7 shows when SOI publishes the state and local tax data after the end of a tax year. Some time lag between the end of a tax year and when SOI publishes data for that year is expected because returns are collected after the end of the tax year and because of the time needed for processing those returns. This time lag could be extended when there are unexpected difficulties in processing the returns. For example, 2002 tax data were published after about 2 years, while 2000 and 2001 were published in 15 months. Further, SOI officials reported that

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<sup>20</sup>1983 SOI tax data was used in establishing the tax allowance when it was first incorporated in the HEA amendments.

<sup>21</sup>The FAFSA requires applicants to report asset information as of the date of the application.

the agency may be unable to publish the 2003 tax tables because it has been experiencing technical problems in processing returns from that year.<sup>22</sup>

**Table 7: Publication Dates of SOI State and Local Tax Data**

Tax year	Publication date	Elapsed time in months
1997	June 2000	29
1998	February 2001	25
1999	July 2001	18
2000	April 2002	15
2001	April 2003	15
2002	October 2004	21

Source: Interviews with SOI officials and GAO analysis.

### Education's Calculation of the Allowance Does Not Fully Consider Varying Tax Levels Paid by Different Income Groups

Education's method of calculating the state and other tax allowance does not accurately capture the amount in taxes paid by students and families. While Education calculates an allowance for each of the two income categories established by Congress—those earning less than \$15,000 and those earning \$15,000 or more<sup>23</sup>—its methodology does not take into account the varying level of taxes paid by these two groups. To determine the allowance for families with income less than \$15,000, Education uses the total of state and local taxes paid by all tax itemizers regardless of income, despite the fact that the SOI data provide separate information for 12 different income groups.<sup>24</sup> Education's methodology likely

<sup>22</sup>According to an SOI official, while SOI has made a commitment to fix technical problems with its 2003 master files containing the state and other tax data, it is uncertain whether it can provide the level of detail needed to update the allowance or when it could release such information.

<sup>23</sup>In contrast, the Institutional Methodology (IM) used by the College Board has 12 income categories for families, which some experts told us allows for more refined estimates of state and other taxes paid by financial aid applicants.

<sup>24</sup>To determine the allowance for this group, the methodology involves taking the sum of the state and other taxes claimed as income tax deductions divided by the adjusted gross income (AGI). AGI is the amount used in the calculation of an individual's income tax liability and one's income after certain adjustments are made, but before standardized and itemized deductions and personal exemptions are made. The sum of the taxes paid includes taxes such as state and local income taxes, personal property taxes, and real estate taxes. For the dependents and independents without children, the methodology involves dividing the state and local income tax by AGI.

overestimates the taxes paid by the lower-income group for two reasons. First, higher-income individuals generally face higher tax rates than lower-income individuals. Our analysis of 2001 SOI tax data shows that those with an income below \$20,000 have a state and other tax liability of about 3 percent on average, while those with an income of \$20,000 or more have an average 5 percent tax liability. (See app. III.) Second, higher-income individuals are also more highly represented in the SOI data than lower-income individuals. For example, our analysis of the 2001 income distribution of financial aid applicants and of itemizers shows that about 35 percent of aid applicants have an income of less than \$20,000, while less than 10 percent of itemizers have incomes in that range. (See table 8.)

**Table 8: Comparison of Income Distribution in 2001 of FAFSA Applicants and Federal Income Tax Itemizers**

	Dollars											
	0 or Less	0.01 to 9,999	10,000 to 19,999	20,000 to 29,999	30,000 to 49,999	50,000 to 74,999	75,000 to 99,999	100,000 to 149,999	150,000 to 199,999	200,000 to 499,999	500,000 to 999,999	1 million or more
Percentage of FAFSA applicants	2.51	15.44	16.76	15.50	18.60	13.95	8.40	6.45	1.51	0.81	0.06	0.01
Percentage of itemizers	0.76	2.07	5.12	7.85	20.70	24.85	16.27	12.87	4.12	4.25	0.73	0.40

Sources: GAO analysis of Education's 2002-2003 sample of FAFSA applicants and data from the Internal Revenue Service's Statistics of Income Division.

Note: The 12 income groups shown in this table are those used by SOI to display state and local tax information.

To calculate the allowance for the higher-income group, Education deducts a percentage point from the rate it calculates for the lower income group, a process that fails to account for the fact that higher-income individuals face higher tax rates than lower-income individuals. Since the estimate for the lower-income group reflects more of the taxes paid by those with higher income, this methodology likely underestimates the taxes paid by this higher-income group.

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## Four Strategies Might Address Some of the Limitations Associated with the Tax Allowance and Would Yield a Variety of Effects on Federal Spending and Aid Recipients

We have identified four strategies for addressing the limitations of the tax allowance that range from modest to more substantial changes to the process: (1) continue to use SOI data but with a revised method for calculating the allowance, (2) substitute SOI data with one of several alternative data sources, (3) use the same allowance for all aid applicants without regard to state of residence, or (4) collect information directly from the aid applicants themselves. Except for the first option, use of these strategies would require legislative changes. Also, these four strategies differ in their impacts on federal costs and on aid applicants.

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### Use SOI Data with a Revised Methodology

The first strategy would be to make better use of SOI data to calculate the tax allowance, such as by modifying how the allowance is calculated and coordinating with SOI to ensure that the most recently available data are used. Education could use the SOI data on separate income bands to calculate the allowance for families rather than using the aggregate totals that SOI publishes.<sup>25</sup> This would ensure that tax rates for different income bands are based on information more representative of those groups. With regard to coordinating with SOI, Education obtained SOI data for tax year 2000 for its update in 2003 about 3 months before SOI published data for tax year 2001. Thus, when Education published its proposed update in 2003, it was not based on the most recently available data. Coordinating with SOI could reduce the mismatch between the year of the income data collected from applicants and the tax data collected from SOI from 3 to 2 years. Education officials acknowledged that in the future, they may have the flexibility to wait for more recently available SOI data and still meet their schedule for publishing notice of a proposed update to the state and other tax allowance. Appendix IV shows what the tax allowance would be under this strategy for each state.

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<sup>25</sup>The income categories established by Congress differ from those published by SOI. Congress established income categories of \$0 to less than \$15,000 and \$15,000 and above, while SOI data income categories are different. Education could have SOI data customized to provide the required categories or could use the data on the income groups that best match the established categories.

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## Replace SOI Data with One of Several Other Datasets

The second strategy would be to discontinue use of SOI tax data and to replace it with publicly available data, such as the following:

- Bureau of Economic Analysis Personal Income and U.S. Census Bureau Tax Tables
  - *Description*—The Bureau of Economic Analysis (BEA) annually publishes “Personal Income” tables, which cover aggregate household income, by state and are based on data from federal and state government programs, such as state unemployment insurance programs.<sup>26</sup> The U.S. Census Bureau annually publishes “State Government Tax Collections” tables, which include overall state figures for individual income taxes, real estate taxes levied by states but not local governments, property taxes, and sales taxes for both individuals and businesses. This information is gathered by the U.S. Census Bureau through a mail canvass of appropriate state government offices that are directly involved with state-administered taxes; locally collected and retained tax amounts are not included in the survey. Both sets of tables and related documentation are available via the Internet.<sup>27</sup>
  - *Use*—Education could calculate the allowance by combining the information from both sets of tables. This approach has three potential advantages over using SOI data: The BEA data includes income from the entire population, including both filers and nonfilers, and the census data covers all tax filers instead of only itemizers, whereas SOI data only include itemizers, sales taxes are included in the tax collections tables—although they include taxes paid by businesses—and information is available 4 months after the end of a year.<sup>28</sup> This allows income data reported by aid applicants and tax information corresponding to the prior year to be used to develop the allowance. A disadvantage of census data as compared with SOI data is that property

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<sup>26</sup>In the BEA tax tables, household income includes wage and salary disbursements, supplements to wages and salaries, proprietors' income with inventory valuation and capital consumption adjustments, rental income of persons with capital consumption adjustment, personal dividend income, personal interest income, and personal current transfer receipts, less contributions for government social insurance.

<sup>27</sup> BEA: Methodology—<http://www.bea.gov/bea/regional/articles/spi2002>  
Reliability assessment—[http://www.bea.gov/bea/papers/Reliability\\_SPI\\_Estimates.PDF](http://www.bea.gov/bea/papers/Reliability_SPI_Estimates.PDF).  
Census: Methodology—<http://www.census.gov/govs/www/statetaxtechdoc2003.html>.  
Reliability assessment – none available.

<sup>28</sup>These tables are also available on a quarterly basis. However, GAO used the annual publication to develop the alternative allowances for this report.

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tax information is more limited. Like the SOI data, the tables published by the BEA and the U.S. Census Bureau reflect aggregate measures of taxes and income and would not necessarily reflect the experiences of the typical family. Also, because the BEA and the U.S. Census Bureau report information in the aggregate—whereas SOI data are separated into different income bands—Education would need to make adjustments to differentiate tax rates by income.

- U.S. Census Bureau—Current Population Survey (CPS)—Annual Social and Economic Supplement (ASEC)
  - *Description*—The Census Bureau annually publishes the Annual Social and Economic Supplement to the Current Population Survey, which includes income, estimated state income taxes, and estimated real estate taxes. The CPS household income information is gathered through a survey of 100,000 households. State income tax information is estimated by the U.S. Census Bureau based on reported income and filing status information and review of state income tax regulations. Real estate tax information is generated in a similar manner. Household characteristics are matched to the Census Bureau’s American Housing Survey to provide simulated real estate and property taxes. The CPS dataset and related documentation are available via the Internet.
  - *Use*—Education could use CPS household-level data to generate tax allowances by income. An advantage of using the CPS is that it allows Education to estimate the taxes paid by the typical family rather than the taxes paid in aggregate, and CPS data also reflect the entire population—itemizers, nonitemizers, and nonfilers. Two disadvantages are that although we have assessed the information collected by the U.S. Census Bureau in generating the CPS to be reliable, the CPS tax information is not based on actual taxes paid but rather on U.S. Census Bureau tax models and is therefore subject to error and that the CPS does not include sales taxes. In addition, CPS data are available only somewhat sooner than SOI data, and because of the size of its sample, a 3-year average must be taken to generate reliable state-level information.
- Institute on Taxation and Economic Policy (ITEP)—Who Pays? A Distributional Analysis of the Tax Systems in All 50 States
  - *Description*—ITEP is a nonprofit research and education organization that has published two reports on state taxes, one in 1996 and one in 2003, both entitled *Who Pays? A Distributional Analysis of the Tax*

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*Systems in All 50 States.* According to an ITEP official, ITEP plans to publish future updates every 3 years. These reports present estimated state information on income, real estate, property, and sales tax rates. The ITEP state tax tables are based on the 1988 public-use SOI sample of 365,000 federal tax returns, stratified so that they are representative at the state level and aged to reflect the most recent statistics on general population and tax filer characteristics published by the IRS and the U.S. Census Bureau. These returns and state tax regulations are analyzed to estimate state, local, real estate, property, and sales taxes paid based on household characteristics. Adjustments are made to reflect potential nonfilers as well. These reports are available via the Internet.

- *Use*—Were Education to determine ITEP data reliable, Education could use the ITEP tax figures to generate tax allowances by income band.<sup>29</sup> Two advantages of ITEP data are that they include sales taxes and that an adjustment is made to estimate what nonfilers pay in sales taxes, whereas SOI data do not reflect sales taxes and do not account for nonfilers. A disadvantage is that ITEP’s income bands are not consistent across states and do not match those established by Congress.

While these publications are publicly available, Education could also contract with any of these organizations to customize a dataset for the purpose of developing the tax allowance.

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### Apply a Standard Allowance to All Aid Applicants, Regardless of State of Residence

The third strategy would be to apply the same allowance to all aid applicants, regardless of their state of residence. This would involve creating a standard allowance based on the CPS that reflects the median taxes paid by all households.<sup>30</sup> This strategy would have the advantage of simplifying the need analysis methodology, but a disadvantage is that it would not account for the variation in taxes paid across states or income bands. For example, using a standard allowance may on average underestimate the taxes paid by those from high-tax states but may overestimate the taxes paid by those from low-tax states.

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<sup>29</sup>As explained in appendix I, we were unable to determine the reliability of the ITEP data.

<sup>30</sup>Education could use any data source, including those discussed above that provides household-level information to generate the income and taxes paid by the median household.

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## Collect Tax Information Directly from Aid Applicants

The fourth strategy would be to collect tax information directly from aid applicants by adding questions to the financial aid application form. Under this strategy, applicants would report state and other taxes along with their federal taxes paid, information that could be used to reduce available household financial resources directly, making an allowance unnecessary. While documentation would likely be available for aid applicants to use in reporting their state income and property taxes, documentation concerning sales taxes may not be as readily available. Independent of this report, the Advisory Committee on Student Financial Assistance is currently assessing this strategy in the context of simplifying the financial aid application process and is expected to release its report in early 2005. One of the options considered by the Advisory Committee on Student Financial Assistance is to have the FAFSA questions tailored to the applicant, where applicants from different states (and with different financial circumstances) would answer different questions, and questions not relevant to an applicant would not be asked. Education officials expressed concern with this strategy because it might add to the administrative burden of students, schools, and Education. For example, Education's current guidance directs applicants to specific line items from their federal tax returns for their federal taxes paid, and it would be difficult to do the same with state taxes, given the variations among state tax forms. Because institutions are required, on a limited basis, to verify information reported by students and families on the FAFSA, Education officials noted that having students and families report additional information on the FAFSA could increase the burden on institutions of verifying such information.



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## Strategies Would Differ in Terms of Their Effects on Federal Student Aid Expenditures and Financial Aid Applicants

These various strategies would have differed in their impacts on federal expenditures and on financial aid applicants if they were applied to the 2004–2005 award year.<sup>31</sup> First, each strategy would have changed federal expenditures for grant and loan programs, for acquiring data, and for other administrative activities. For example, we estimate that Pell Grant program expenditures could have increased by as much as \$400 million or decreased by as much as \$200 million were the different options adopted and used to allocate aid for 2004–2005. Second, each strategy would have affected the amount of federal, state, and institutional aid that financial aid applicants receive and the number of applicants receiving such aid. For Pell Grants, using a standard allowance of 4 percent would have caused about 83,000 recipients to become ineligible for the program, but the other options would have affected fewer recipients. Table 9 shows the potential merits of each option in terms of federal expenditures for the Pell Grant program and the impact on expected family contribution, and table 10<sup>32</sup> shows the extent to which the tax allowances calculated under each strategy would accurately reflect state and local taxes paid by students and families.

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<sup>31</sup>Our estimates on the impacts are limited to changes in the EFC and Pell Grant program. We were not able to assess the impact for federal Stafford loans and Campus-Based, state, or institutional aid programs. As previously mentioned, estimating the impact on federal Stafford loans would require data on the extent to which the amount of other forms of aid changed as a result of a change in EFC, and such data are not available at a national level. Because schools vary in the way they award Campus-Based aid, we were similarly unable to assess the potential effects on these programs nationally. With respect to state and institutional aid, there is no central repository of information on state and institutional awarding policies, which prevented us from estimating changes in state and institutional aid.

<sup>32</sup>As previously discussed, recent legislation providing taxpayers who itemize deductions the choice of claiming a state and local tax deduction for either sales or income taxes would affect the data collected by SOI. Because these effects would be limited to 2 tax years—2004 and 2005—and the effects could not be estimated, we did not consider them in our comparisons.

**Table 9: Framework for Evaluating Options Identified to Change the State and Other Tax Allowance Relative to the Current Allowance in Use**

	Proposed	Strategy I	Strategy II			Strategy III	Strategy IV		
			Proposed 2004–2005 tables	SOI with revised methodology <sup>a</sup>	Alternative data sources				
					BEA / Census <sup>b</sup>			CPS (ASEC) <sup>c</sup>	ITEP <sup>d</sup>
Change in federal Pell Grant expenditure <sup>g</sup>	– 0.3 billion	+ 0.1 billion	+ 0.2 billion	– 0.2 billion	+ 0.4 billion	– 0.2 billion	–		
Percentage of students facing a reduction in Pell Grant award	38	19	11	32	2	29	–		
Percentage retaining eligibility	36	19	11	31	2	27	–		
Percentage not retaining eligibility (number of students affected) <sup>h</sup>	2 (92,000)	<1 (26,000)	<1 (22,000)	1 (62,000)	<1 (1,000)	2 (83,000)	–		
Average dollar change in Pell Grant award for those with a decrease <sup>i</sup>	– 144	– 103	– 135	– 118	– 90	– 177	–		
Change in expected family contribution <sup>j</sup>	+ 3.5 billion	+ 0.4 billion	– 0.9 billion	+ 2.3 billion	– 3.9 billion	+ 2.8 billion	–		
Percentage of students facing an increase in EFC	62	38	22	59	4	48	–		
Average dollar change in EFC for those with an increase <sup>k</sup>	493	295	471	338	242	616	–		

Source: GAO analysis.

Notes: All alternatives are based on what information would have been available to Education as of January of 2003 for publication in the May 2003 Federal Register.

<sup>a</sup>The “SOI with Revised Methodology” figures are based on 2000 SOI data and were calculated (by income band) by dividing the aggregate *total taxes paid deduction* by the aggregate *adjusted gross income* for families and by dividing the aggregate *state and local income taxes* by the aggregate *adjusted gross income* for individuals.

<sup>b</sup>The “BEA/Census” figures are based on 2001 BEA and U.S. Census data and were calculated by dividing the sum of *property taxes, general sales and gross receipts, and individual income taxes* from the U.S. Census by *personal income* from the BEA for families and by dividing the sum of *general sales and gross receipts and individual income taxes* from the U.S. Census by *personal income* from the BEA for individuals. Note that BEA and U.S. Census data are not provided separately by income band.

<sup>c</sup>The “CPS” figures were generated based on a 3-year average of the median effective tax rate, by state, across 1999, 2000, and 2001 CPS data, as prescribed by CPS documentation for the study of state-based information in the CPS. The median effective tax rate reflects the median across households of the sum of *state income taxes paid and household property taxes* divided by *total personal income* for families and of *state income taxes paid* divided by *total personal income* for individuals.

<sup>d</sup>The “ITEP” figures are based on ITEP’s analysis of tax data and were calculated for each income band by summing *general sales tax rates, other sales and excise tax rates, property tax rates, and personal income tax rates* for families and by summing *general sales tax rates, other sales and excise tax rates, and personal income tax rates* for individuals. As explained in appendix I, we were unable to determine the reliability of the ITEP data.

<sup>e</sup>The standard allowance of 4 percent is based on an estimate of the median household across states using CPS data.

<sup>f</sup>The impacts of adding a question to the FAFSA could not be estimated.

<sup>g</sup>The estimated expenditure of the Pell Program in award year 2004–2005 is about \$13 billion under the current allowance.

<sup>h</sup>The sampling errors for those not retaining eligibility for SOI (Revised), Census/BEA, and ITEP range from 6 percent (SOI) to 27 percent (ITEP). All others have a sampling error of 5 percent or less. Figures for the number of students not retaining eligibility are rounded to the nearest 1,000.

<sup>i</sup>The estimated average Pell award for award year 2004–2005 is about \$2,440 under the current allowance.

<sup>j</sup>The estimated sum of EFCs across all FAFSA applicants in award year 2004–2005 is about \$75 billion under the current allowance.

<sup>k</sup>The estimated average EFC in award year 2004–2005 is about \$6,450 under the current allowance.

**Figure 6: Framework for Evaluating the Alternative Datasets Identified Relative to SOI Data**

Data quality	BEA/Census	CPS (ASEC)	ITEP	FAFSA
Timeliness <sup>a</sup>	●	◐	— <sup>b</sup>	●
Data accuracy <sup>c</sup>	●	— <sup>d</sup>	— <sup>e</sup>	●
Relevance <sup>f</sup>	— <sup>g</sup>	◐	●	◐
Completeness <sup>h</sup>	○	●	◐	●

- Would improve on SOI data
- ◐ Would not improve on SOI data
- Would be worse than SOI data
- Undetermined

Source: GAO analysis

Notes: The data quality categories are based upon those described in the Office of Management and Budget (OMB) guidelines for assessing data quality. Please see OMB document “Statistical Policy Working Paper 31 – Measuring and Reporting Sources of Error in Surveys.”

<sup>a</sup>The assessment of “timeliness” is based on whether Education would be able to base its published allowance tables on more recent data than under SOI or not.

<sup>b</sup>For years in which ITEP publishes updated tax rates, Education would be able to use more recent data in calculating the allowance than SOI data would allow, but in other years ITEP data would not yield an advantage over SOI data and may in fact be based on data older than what SOI would provide.

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<sup>e</sup>The assessment of “data accuracy” is based on whether the allowance for state, local, property, real estate, and other taxes is based on a population more representative of financial aid applicants and whether a current reliability assessment is available for review.

<sup>f</sup>The CPS property tax data are based on a Census model. Since this model has not been assessed for accuracy since 1992, the accuracy of the CPS tax data is undetermined. If the data proved to be accurate, then this data source would be an improvement compared with SOI data.

<sup>g</sup>As explained in appendix I, we were unable to determine the reliability of the ITEP data.

<sup>h</sup>The assessment of “relevance” is based on whether state, local, and sales taxes are included in the calculation.

<sup>i</sup>Because property taxes reported by the U.S. Census Bureau are limited and because sales taxes include both those paid by individuals and corporations, we were unable to determine the relevance of U.S. Census Bureau tax data.

<sup>j</sup>The assessment of “completeness” is based on whether data are provided on an individual basis and whether the appropriate income bands are represented.

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## Conclusions

Millions of students rely on federal, state, and institutional aid every year to help pay for their postsecondary education. These awards are distributed to students and their families based in part on estimates about what they can afford to pay out of their own pockets. Yet if these estimates are considerably incorrect, the awards may not be distributed as equitably as they could be. Because state and local tax rates may have changed over the past decade, and Education has updated the allowance only once and given the limited way in which Education uses SOI data, it is very likely that the federal government may have been making an allowance for more taxes than were actually paid, or in other cases, undercompensating for taxes that were paid. Although Education has taken some recent steps to update the allowance, these efforts have not been successful. An inaccurate allowance could yield adverse effects for the federal government and students and their families. On the one hand, students and families could erroneously gain eligibility, which would cause federal funds to be misdirected. On the other, students and families could inappropriately lose eligibility for aid. Because state and institutional aid programs also make use of the federal need analysis methodology, such losses may be compounded for students and families.

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## Recommendations for Executive Action

To ensure that relevant tax data from the Statistics of Income are requested systematically and that the most recent data are obtained, we recommend, in the short run, that the Secretary of Education develop formalized updating procedures and document such procedures in writing. Such procedures could include (1) making annual written requests to the Internal Revenue Service for state and local tax information and documenting those requests and (2) coordinating with the IRS to make

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sure Education knows when SOI data will be publicly released and to ensure that the most currently available data are used.

To better capture the amount of taxes paid by students and families, we also recommend, in the short run, that Education revise its methodology for calculating the state and other tax allowance. Revisions could include using tax figures reflective of the different income groups to calculate the allowance rather than figures based on all itemized tax returns.

To determine whether alternative methodologies and data would better enable Education to annually update the allowance, we recommend, in the longer run, that Education assess the cost and reliability of available data, including the alternative data sources identified in this report. If Education determines that statutory changes are needed to implement more effective alternatives, it should seek such changes from Congress.

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## Agency Comments

In written comments on our draft report Education generally agreed with our reported findings and recommendations. In its letter, Education offered a number of suggestions and observations. Education requested that we refer to the state tax rates as “proposed state tax rates under the HEA’ in the final report rather than using the label ‘proposed state tax rates of the Department,” because it believes it does not have the authority to “ignore the clear statutory requirement to perform the update.” Because we explain in our report that the Congress incorporated the state and other tax allowance in the HEA and required Education to annually revise the allowance, we do not believe our characterization of the state tax rates leads to any confusion. Accordingly, we did not change how we refer to the state tax rates.

Education also commented on the strategies we identified that address some of the limitations associated with the tax allowance and noted that it would review each of the alternative data sources discussed in our report that could be used to substitute for the SOI file data, as we recommended. Education noted that it believed all four strategies we identified in our report would likely require congressional action. We agree that those strategies that involve using alternative data sources to substitute for the SOI file data would require legislative changes, as we noted in our report. We also agree with Education’s comment that using income bands other than those specified by Congress would likely require legislative change. We disagree that congressional action is required for Education to continue to use SOI data but with a revised method for calculating the allowance—one of the strategies identified in our report. While the HEA directs Education to use the SOI file to revise the allowance, and

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establishes the income categories for which the allowance should be calculated for parents of dependent students and independent students with dependents other than a spouse (which we define as “families” in this report), the HEA does not specify a particular method to calculate the allowance. Therefore, we believe that Education could revise its methodology, as we recommended, without congressional action. Education also echoed some of the disadvantages we discussed in our report associated with applying the same allowance to all applicants and collecting tax information directly from aid applicants by adding questions to the application form.

Education also stated that it generally agreed with our assessment of the impact of the revised allowance tables on Pell Grant recipients but noted that we could have provided additional information concerning applicants who would no longer have been eligible for Pell Grants. As we stated in the report, these applicants typically would no longer have received the minimum Pell Grant award, reflecting that such applicants typically have higher incomes than those who would have continued to receive Pell Grants. Additionally, we show that Pell Grant recipients with household income over \$25,000 would have been significantly more likely to have either received less in Pell Grants or become ineligible for them. Education also suggested in its letter that it would be helpful to clarify that a change in EFC would not necessarily cause an identical change to a student’s award amount with respect to federal student loans, Campus-Based aid, and state and institutional financial aid programs: “in other words,” the department noted, “include a brief explanation of potential interactive effects.” As noted in our report, our case studies of students at selected schools showed that as the EFC would have increased, subsidized loans would have decreased, and unsubsidized loans would have increased in response to the decreases in other forms of financial aid. In response to Education’s comment, however, we added information concerning how EFC changes would have affected need-based aid overall with respect to our case study schools. Education also noted that it understood why we chose to analyze the effects of the proposed 2003 update had it been implemented in 2004–2005. (Soon after we had submitted our draft report to Education for comment, the department published, on December 23, 2004, an updated allowance for the 2005–2006 award year.) In its letter, Education includes the results from its preliminary analysis of the effects of the 2004 update for 2005–2006. Education’s results are generally consistent with the results from our analysis. We did not, however, verify the accuracy of Education’s estimates.

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Education also expressed concern that we misinterpreted the department's intentions with respect to updating the allowance for the 2005–2006 award year. While we understood the department's intentions, we made technical clarifications to the report to address Education's concern.

With respect to our recommendation that the department establish formal procedures to ensure that it annually requests and obtains the most current tax data from the IRS, Education stated that it had such procedures in place as "evidenced by the update published in the spring of 2003." However, as noted in our report, Education could not provide us with written procedures guiding staff on the routine steps necessary to update the tax allowance or to identify what data would be needed to update the allowance. In response to the department's comment, we clarified that our recommendation included documenting formalized procedures in writing. Lastly, Education provided technical comments, which we incorporated as appropriate. Education's written comments appear in appendix V.

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As agreed with your offices, unless you publicly announce its contents earlier, we plan no further distribution of this report until 7 days from its date. At that time we will send copies of this report to the Secretary of Education, appropriate congressional committees, and other interested parties. In addition, the report will be available at no charge on GAO's Web site at <http://www.gao.gov>.

If you or your staff have any questions about this report, please call me on (202) 512–8403 or Jeff Appel, Assistant Director, on (202) 512–9915. You may also reach us by e-mail at [AshbyC@gao.gov](mailto:AshbyC@gao.gov) or [AppelC@gao.gov](mailto:AppelC@gao.gov). Other contacts and staff acknowledgments are listed in appendix VI.



Cornelia M. Ashby  
Director, Education, Workforce,  
and Income Security Issues

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*Congressional Requesters*

The Honorable Edward M. Kennedy  
Ranking Minority Member  
Committee on Health, Education,  
Labor, and Pensions  
United States Senate

The Honorable Christopher J. Dodd  
United States Senate

The Honorable Tom Harkin  
United States Senate

The Honorable Barbara A. Mikulski  
United States Senate

The Honorable James M. Jeffords  
United States Senate

The Honorable Jeff Bingaman  
United States Senate

The Honorable Patty Murray  
United States Senate

The Honorable Jack Reed  
United States Senate

The Honorable Hillary Rodham Clinton  
United States Senate

The Honorable Jon S. Corzine  
United States Senate



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# Appendix I: Scope and Methodology

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## Overview

The objectives of this study were to determine (1) what tax data form the basis of the current tax allowance and what factors have affected regular updates, (2) the effect the Department of Education's (Education) proposed update would have had in award year 2004–2005 on financial assistance for students and families, (3) the extent to which current methods for determining the allowance accurately measure how much students and families have paid in state and other taxes, and (4) the strategies available to address any problems in deriving the allowance.

To carry out the objectives, we analyzed Education's 2002–2003 aid applicant sample file and Education's Cost Estimation and Analysis Division's Statistical Abstract (CEAD STAB), the most current versions available at the time of our review. We worked closely with financial aid officials from two states—Tennessee and Wisconsin—and four colleges—one public and one private nonprofit school in each of the two states. We interviewed officials from the U.S. Department of Education, Advisory Committee on Student Financial Assistance (ACSFA), and U.S. Department of the Treasury's Internal Revenue Service–Statistics of Income (SOI) Division—as well as officials from the states and schools we contacted. We also interviewed officials from associations representing institutions, including the American Association of State Colleges and Universities (AASCU), National Association of Independent Colleges and Universities (NAICU) and the College Board, as well as other experts. In addition, we reviewed and analyzed the statutory requirements and legislative history of the state and other tax allowance. Furthermore, we reviewed and analyzed state and other tax data from SOI, Bureau of the Census, Bureau of Economic Analysis, and the Institute on Taxation and Economic Policy. We performed our work in accordance with generally accepted government auditing standards between October 2003 and November 2004.

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## Datasets

In estimating how Education's proposed update would affect students' and their families' eligibility for financial assistance, we analyzed two datasets. We used Education's aid applicant sample file from the 2002–2003 award year to estimate changes in (a) expected family contribution and Pell awards nationally, (b) state need-based aid for Wisconsin and Tennessee, (c) Supplemental Educational Opportunity Grants (SEOG), Perkins loans and Work-Study, and (d) institutional need-based aid for the four institutions. This dataset is a randomly drawn, nationally representative sample of over 450,000 aid applicants. To estimate the percentage of Stafford subsidized and unsubsidized and Parent Loans for Undergraduate Students (PLUS) recipients that are likely to have their loan award

changed, we used Education's CEAD STAB. CEAD STAB is a randomly drawn, representative sample of 1.8 million borrowers (about 7 million loans) from the National Student Loan Data System (NSLDS), which is a comprehensive national database of Title IV loan and grant recipients. Our analysis of the CEAD STAB focused on Stafford subsidized and unsubsidized and PLUS borrowers who originated loans from July 2002 to June 2004. We assessed the reliability of both datasets by conducting electronic testing of key variables for obvious problems in accuracy and completeness, interviewing appropriate Education officials, and reviewing related documentation. Based on these tests and reviews, we determined that the samples were sufficiently reliable for our purposes.

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## Estimation Methodology

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### EFC and Pell Grants

To estimate changes in expected family contribution (EFC) and Pell Grant awards nationally, our analysis followed Education's approach to estimating EFC and Pell awards in the 2004–2005 award year. To do this, the 2002–2003 aid applicant sample file was converted to better reflect aid applicants in the 2004–2005 award year by adjusting all income and asset amounts for inflation and changing the weights assigned to each sample applicant so that the sample takes into account projected changes in the number and type of applicants. We reviewed Education's approach to converting the sample file to the 2004–2005 award year and calculating EFC and Pell awards for accuracy and interviewed Education officials about the approach's reliability. We determined that Education's approach was sufficiently reliable for our purposes.

EFC and Pell awards in the 2004–2005 award year were estimated for each sample aid applicant using both the current 2004–2005 state and other tax allowance, which is based on 1988 SOI data, and the proposed 2004–2005 state and other tax allowance, which is based on 2000 SOI data. To assess the impact of the update on EFC and Pell Grant awards, these amounts were compared. We also examined how these impacts vary by family income, dependency status, and state of residence. We designated student state of residence as the state of residence of the parent(s) when they differed.

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### Stafford and PLUS Loans

Our methodology for obtaining national-level estimates on the percentage of loan recipients who could have had their loan award affected involved the steps listed below.

1. Using the aid applicant sample file, we estimated the percentage of applicants in award year 2004–2005 who would have had their EFC changed because of the proposed update for each combination of dependency status, state of residence, and specified income group.
2. We used the resulting percentages to estimate the likelihood that each CEAD-STAB sample borrower’s EFC would have been changed due to the update.
3. We estimated the likelihood that each individual borrower would have had his or her Stafford subsidized and unsubsidized loan award affected as equal to this percentage if the recipient borrowed less than the maximum allowed by law. We estimated as zero the likelihood that each individual borrower would have had his or her Stafford subsidized and unsubsidized loan award affected if the recipient borrowed the maximum allowed by law.
4. For PLUS recipients, the likelihood that each recipient would have had his or her aid award affected was estimated as equal to the percentage who would have had their EFC changed because of the proposed update that we estimated from our analysis of the aid applicant sample file.

Estimating whether students would have seen a change in their loan amounts because of the proposed update is complex largely because these loan amounts depend on the extent to which all other financial aid awards—including Campus-Based, state, and institutional aid—would have been affected, and no complete information is available on the specific awarding policies of all states and institutions for these types of aid. To compensate for this lack of information, we made several assumptions regarding how Stafford and PLUS loans would have been affected, which may either over- or underestimate what the actual changes would have been. However, these assumptions may somewhat offset each other, and we believe our estimates are informative of the percentage of borrowers whose loan awards could have been affected.

Stafford and PLUS loan estimates may be biased upward for the following reasons. Stafford loan estimates may be biased upward because we assumed that all borrowers who currently receive less than the maximum allowed and whose EFC would have changed under the proposed update would have had their loan award amount changed as well, yet this is not always the case. For example, because the subsidized loan award equals the cost of attendance less EFC and other financial aid awards, subject to the loan limits, subsidized Stafford loan amounts would not have been

affected if the decrease in other financial aid awards exactly offset the EFC increase resulting from the proposed update. Because the unsubsidized Stafford loan award equals the cost of attendance less other financial aid awards (including subsidized loan awards), subject to the loan limits, unsubsidized loan amounts would not have been affected if other aid awards did not change because of the update.<sup>1</sup> Furthermore, we assumed that all PLUS borrowers whose EFC would have changed because of the update would have had their loan award affected, but, similar to unsubsidized Stafford loans, this would not have occurred had other aid awards not changed because of the update. It is difficult to know the size of this upward bias because the dataset does not include information on the extent to which other financial aid awards would have been affected.

Our estimates for Stafford loans may be biased downward because we assumed that all borrowers who receive the maximum allowed would not have had their loan award affected, which also is not always the case. For unsubsidized Stafford loans, this bias appears to be very small because unsubsidized loans would only decrease if students have a cumulative net increase in their other financial aid awards, which case studies and expert interviews show to be unlikely. For subsidized Stafford loans, this bias may be larger, yet we believe that it is still relatively small. Subsidized Stafford loan awards that are currently at the maximum would only decrease when the EFC plus other aid increase enough to cause the student to lose eligibility for the maximum loan amount, and analysis of the National Postsecondary Student Aid Survey (NPSAS) shows that most students are not likely to face this circumstance.<sup>2</sup>

We also assumed that the borrowers in award year 2004–2005, the year of the proposed update, are from the same states, have the same incomes, and have the same costs of attendance as the most recent CEAD-STAB borrowers, and the extent to which they differ would cause our estimates to be less accurate. For example, if we underestimate the number of students in likely high-impact states, our estimates would likely

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<sup>1</sup>This could occur for students whose other financial aid awards do not depend on the federal methodology.

<sup>2</sup>Our analysis of NPSAS suggests that over 70 percent of subsidized Stafford loan borrowers would be eligible to borrow an additional \$500 or more were it not for the maximum loan cap. Since the average EFC change is less than \$500, the vast majority of these students would not lose eligibility for the maximum under the proposed update.

underestimate the overall proportion of students who could face a change in their loan award.

To complement this national-level loan analysis, we determined the percentage of students at our case study schools who would have experienced a change in their subsidized and unsubsidized loans, along with the size and direction of the changes. We could not determine this information for PLUS loans for our case study schools since the schools did not package PLUS loans for the purpose of estimating potential impacts of the proposed update.

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### State and Institutional Need-Based Aid and Campus-Based Aid

To provide illustrative examples of how the proposed update can affect state and institutional need-based aid and Campus-Based aid, we worked closely with two states—Wisconsin and Tennessee—and four colleges, including one public and one private nonprofit institution in each of the two states. We chose these states because they use the Higher Education Act (HEA) federal methodology to disburse state aid, are geographically dispersed, and represent high- and low-impact states, based on an index we calculated for the following components: (1) the average EFC change resulting from Education’s update, (2) the percentage of full-time undergraduates receiving grant aid, and (3) the average state need-based grant per undergraduate. We averaged the three components to generate an index of the overall average impact. The 44 states and the District of Columbia that use the federal methodology were then sorted in descending index order and separated into three groups of 15, with the highest index group being designated “high-impact states,” the next group being designated “medium-impact states,” and the last group being designated “low-impact states.” For the components and index value we estimated for each state, see appendix II. The institutions we chose include the University of Wisconsin at Madison, Wisconsin’s Marian College, Middle Tennessee State University, and Tennessee’s Carson-Newman College. We chose schools within the two selected states based on the following criteria: (1) use of the HEA federal methodology to disburse aid, (2) participation in the federal Campus-Based aid program, (3) provision of institutional need-based aid,<sup>3</sup> (4) number of students with household income between \$25,000 and \$75,000, and (5) willingness and capacity to calculate estimated impacts on need-based aid.

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<sup>3</sup>We were unable to gain the collaboration of a public institution that offers institutional need-based aid in either of these two states.

For each of these two states and four institutions, we generated a subsample from Education's aid applicant sample file that reflects the students who attended school in these two states and the students who attended school at the four institutions in the 2002–2003 award year. For each student, the dataset contained information on the student's estimated EFC under the current and proposed allowance and the student's dependency status. Using these subsamples, examples of the effect of the proposed update on state, institutional, and Campus-Based aid were calculated. While the aid applicant sample file is a nationally representative sample, it may not be representative of the aid applicants who attend school in these specific states or at these specific institutions. The subsamples had the following number of observations:

- Wisconsin: 7,469,
- Tennessee: 8,385,
- University of Wisconsin at Madison: 580,
- Wisconsin's Marian College: 54,
- Middle Tennessee State University: 533, and
- Tennessee's Carson-Newman College: 62.

We estimated the impacts on Wisconsin's state need-based aid using the Wisconsin subsample, along with the state aid award methodologies provided to us by the Wisconsin Higher Educational Aids Board. The state need-based aid programs that we analyzed were the Wisconsin Higher Education Grant and the Wisconsin Tuition Grant programs.

The Tennessee Student Assistance Corporation, the agency responsible for determining state aid in Tennessee, performed its own analysis of the impact on state need-based aid using the Tennessee subsample and then shared the results with us. The aid program analyzed was the Tennessee Student Assistance Award. To verify the validity of the Tennessee aid determination, we verified that the aid awarded fell within the maximum award limit and that those within an EFC range received similar award amounts; that is, that those with a lower EFC received a higher award amount.

To estimate the impacts on institutional need-based and Campus-Based aid, financial aid directors or financial aid specialists at each of the four selected schools calculated the impacts using their relevant subsample. While the focus was on need-based institutional aid and Campus-Based aid, three institutions also calculated the effect on Stafford loans. To check the validity of these simulations, we checked (1) the order in which

different forms of aid were awarded to see if they were consistent with common aid packaging protocols, (2) the formulas used to calculate remaining need at each stage of the award packaging process to make sure they were accurate, (3) the range of aid levels awarded to make sure they fell within bounds defined by regulation, (4) the total aid awarded to make sure it did not exceed financial need, and (5) the relationship between aid awarded and EFC levels to make sure that those with lower EFCs were provided more aid than those with higher EFCs.

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## Calculation of Estimated Tax Rates from Alternative Data Sources

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### Methodology

For the purposes of this report, we define “families” to include parents of dependent children (students) and independent students with dependents other than a spouse, and we define “individuals” to include dependent students and independent students without dependents other than a spouse. The specific methodologies used for each source are described in the footnotes to table 9.

### Reliability Assessment

In assessing the reliability of state personal income estimates from the U.S. Bureau of Economic Analysis (BEA), we reviewed information available online from the BEA Web site on its data quality assurance processes and interviewed relevant officials. On the basis of the results of our document review and discussions with relevant officials, we concluded that the BEA data we used were reliable for our purposes for this analysis.

In assessing the reliability of state government tax collections estimates from the U.S. Census Bureau, we interviewed relevant officials, who stated that there was no published data reliability documentation. Thus, we were unable to determine if the Census data we used were reliable for our purposes for this analysis.

In assessing the reliability of data from the U.S. Census Bureau’s Annual Social and Economic Supplement, we reviewed information available online from the U.S. Census Bureau Web site on its data quality assurance processes and interviewed relevant officials. On the basis of the results of

our document review and discussions with relevant officials, we have determined that the information collected by the U.S. Census Bureau in generating the Current Population Survey (CPS) is reliable, but we were unable to determine whether the CPS tax data we used, which is not collected directly but rather generated from U.S. Census Bureau tax models, were reliable for our purposes for this analysis.

In assessing the reliability of data from the Institute on Taxation and Economic Policy's *Who Pays* publication, we interviewed a relevant official and reviewed available documentation. However, we were unable to reach a determination as to the reliability of the data, primarily because of a lack of sufficient documentation.

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## Sampling Error

Because our analysis relied on samples of aid applicants and borrowers, our estimates are subject to sampling errors. Sampling errors are often represented as a 95 percent confidence interval: an interval that 95 times out of 100 will contain the true population value. For the percentages and numbers presented in this report on the EFC, Pell award, Stafford loan, and PLUS loan impacts, we are 95 percent confident that the results we would have obtained had the entire population been studied are within plus or minus 5 percent of the results, unless otherwise noted. The results for state and institutional need-based aid and Campus-Based aid are not necessarily based on representative samples and therefore should be considered as case study findings, or illustrative examples. Thus, we did not calculate sampling errors for these three categories of aid.



# Appendix II: State Selection Matrix—Ranking of Potential Impact of Proposed Allowance, Listed by Category

State	Overall average EFC dollar change <sup>a</sup>	Percentage of students receiving need-based aid	Estimated average need-based aid amount per undergraduate	Impact level <sup>p</sup>
Minnesota	542	15.01	4,420	High
Vermont	489	34.99	1,749	High
Massachusetts	570	36.22	1,176	High
Illinois	273	28.93	2,998	High
Iowa	611	13.97	2,712	High
Wisconsin	647	27.24	1,098	High
New Jersey	150	30.73	2,701	High
Maine	477	32.72	960	High
Michigan	547	15.26	2,012	High
Indiana	303	19.84	2,612	High
South Carolina	484	21.70	1,228	High
Virginia	456	16.00	1,791	High
Washington	226	23.14	2,007	High
Colorado	430	14.32	1,981	High
California	181	12.55	3,109	High
West Virginia	357	17.24	1,850	Medium
Kentucky	224	27.90	1,246	Medium
Maryland	345	15.56	1,788	Medium
Arkansas	253	19.54	1,736	Medium
North Carolina	335	12.71	2,065	Medium
Delaware	668	2.97	1,370	Medium
New Mexico	268	9.63	2,436	Medium
Nebraska	565	13.09	747	Medium
New Hampshire	591	8.34	884	Medium
Rhode Island	418	15.92	706	Medium
Kansas	411	7.62	1,466	Medium
Connecticut	-58	19.21	2,328	Medium
Texas	96	13.45	2,190	Medium
North Dakota	574	7.54	564	Medium
Montana	354	16.08	526	Medium
Tennessee	194	14.10	1,419	Low
Hawaii	509	1.00	1,329	Low
Missouri	255	9.09	1,530	Low

**Appendix II: State Selection Matrix—Ranking of Potential Impact of Proposed Allowance, Listed by Category**

<b>State</b>	<b>Overall average EFC dollar change<sup>a</sup></b>	<b>Percentage of students receiving need-based aid</b>	<b>Estimated average need-based aid amount per undergraduate</b>	<b>Impact level<sup>b</sup></b>
Oklahoma	199	15.06	1,168	Low
Florida	192	15.36	1,074	Low
Nevada	67	6.50	2,138	Low
District of Columbia	291	3.18	1,149	Low
Utah	251	4.70	749	Low
Wyoming	247	1.06	773	Low
Arizona	181	1.49	966	Low
Georgia	258	0.98	667	Low
Idaho	221	3.70	457	Low
Louisiana	254	1.74	501	Low
Mississippi	151	1.52	940	Low
Alabama	184	1.11	577	Low
Alaska	163	0.00	0	N/A
New York	430	49.10	1,968	N/A
Ohio	431	24.96	1,201	N/A
Oregon	359	15.98	1,070	N/A
Pennsylvania	476	32.89	2,331	N/A
South Dakota	376	0.00	0	N/A

Sources: EFC Change and Impact Category—GAO analysis of Education’s 2002–2003 aid applicant sample file and the proposed tax allowance. Need-Based Aid Information—“National Association of State Student Grant and Aid Programs’ 33rd Annual Survey Report on State-Sponsored Student Financial Aid, 2001-02 Academic Year.

<sup>a</sup>The sampling errors for Alaska, Connecticut, Delaware, District of Columbia, Hawaii, Idaho, Maine, Montana, Nevada, New Hampshire, New Mexico, North Dakota, Rhode Island, South Dakota, Utah, Vermont, West Virginia, and Wyoming vary from slightly over 5 percentage points (for New Hampshire, Utah, and West Virginia) to just under 15 percentage points (for District of Columbia). All others have sampling errors at or below 5 percentage points.

<sup>b</sup>Only states that use the HEA federal methodology were given a ranking. Thus, the ranking does not apply to the six states listed last.

# Appendix III: Average Tax Rates on Adjusted Gross Income, by State and Income Level

State	Tax rate by income level (percentage)		State	Tax rate by income level (percentage)	
	< \$20,000	≥ \$20,000		< \$20,000	≥ \$20,000
Alabama	1	3	Montana	2	5
Alaska	2	2	Nebraska	1	5
Arizona	1	4	Nevada	1	2
Arkansas	0	4	New Hampshire	2	4
California	2	7	New Jersey	3	7
Colorado	1	4	New Mexico	1	4
Connecticut	2	6	New York	2	8
Delaware	1	4	North Carolina	1	6
District of Columbia	1	7	North Dakota	0	2
Florida	1	2	Ohio	1	6
Georgia	1	5	Oklahoma	1	4
Hawaii	1	5	Oregon	3	7
Idaho	1	5	Other areas <sup>a</sup>	5	2
Illinois	1	4	Pennsylvania	1	5
Indiana	1	4	Rhode Island	2	7
Iowa	1	5	South Carolina	1	5
Kansas	1	5	South Dakota	0	1
Kentucky	1	5	Tennessee	0	1
Louisiana	0	2	Texas	1	2
Maine	1	6	Utah	1	5
Maryland	2	7	Vermont	1	5
Massachusetts	2	6	Virginia	1	5
Michigan	1	5	Washington	1	2
Minnesota	1	6	West Virginia	0	3
Mississippi	0	3	Wisconsin	2	7
Missouri	1	4	Wyoming	0	1

Source: GAO analysis of SOI data for tax year 2000.

Notes: Taxes include state and local income taxes, real estate taxes, personal property taxes, and taxes paid to a foreign country or U.S. possession.

<sup>a</sup>“Other Areas” includes American Samoa, Federal States of Micronesia, Guam, Marshall Islands, Northern Marianas, Palau, Puerto Rico, Virgin Islands, and other U.S. states and territories.

# Appendix IV: Simulation of Tax Allowance Percentages under Various Options, by State—Families with Adjusted Gross Income of \$15,000 or More

State	Current	Proposed	Strategy I	Strategy II			Strategy III
	Tables published in 1993	Proposed 2004–2005 tables	SOI with revised methodology	BEA / Census	CPS	ITEP	Standard allowance (4%)
Alabama	4	2	3	5	3	7	4
Alaska	2	1	2	1	1	2	4
Arizona	5	3	4	5	4	7	4
Arkansas	5	2	4	7	5	8	4
California	7	5	7	7	5	8	4
Colorado	6	3	4	4	4	7	4
Connecticut	5	5	6	6	4	8	4
Delaware	7	3	4	4	6	5	4
District of Columbia	9	6	7	9	8	8	4
Florida	3	1	2	4	1	5	4
Georgia	6	4	5	5	5	8	4
Hawaii	7	3	5	9	13	8	4
Idaho	6	4	5	6	5	8	4
Illinois	5	3	4	5	4	8	4
Indiana	5	3	4	5	4	8	4
Iowa	7	3	5	6	7	8	4
Kansas	6	3	5	6	4	9	4
Kentucky	6	4	5	7	5	8	4
Louisiana	3	1	2	5	2	7	4
Maine	8	5	6	7	6	9	4
Maryland	8	6	7	5	7	8	4
Massachusetts	8	5	6	6	7	8	4
Michigan	8	4	5	6	6	8	4
Minnesota	8	5	6	7	6	9	4
Mississippi	4	2	3	7	3	7	4
Missouri	5	3	4	5	4	8	4
Montana	7	4	5	5	5	6	4
Nebraska	7	3	5	5	5	8	4
Nevada	2	1	2	5	1	4	4
New Hampshire	6	3	4	3	2	4	4
New Jersey	7	6	7	5	7	9	4
New Mexico	5	2	4	7	3	8	4
New York	10	7	8	6	7	9	4

**Appendix IV: Simulation of Tax Allowance  
Percentages under Various Options, by  
State—Families with Adjusted Gross Income  
of \$15,000 or More**

State	Current	Proposed	Strategy I	Strategy II			Strategy III
	Tables published in 1993	Proposed 2004–2005 tables	SOI with revised methodology	BEA / Census	CPS	ITEP	Standard allowance (4%)
North Carolina	7	4	6	6	6	8	4
North Dakota	5	1	2	5	3	6	4
Ohio	7	4	6	5	5	9	4
Oklahoma	5	3	4	5	5	9	4
Oregon	9	6	7	5	8	9	4
Other Areas	3	2	2	5	4	6	4
Pennsylvania	6	3	5	5	4	7	4
Rhode Island	8	5	7	6	5	9	4
South Carolina	7	3	5	6	5	8	4
South Dakota	3	0	1	4	2	5	4
Tennessee	2	0	1	4	1	5	4
Texas	2	1	2	4	1	5	4
Utah	7	4	5	7	6	8	4
Vermont	7	4	5	8	5	8	4
Virginia	7	4	5	5	6	7	4
Washington	3	1	2	6	1	6	4
West Virginia	5	2	3	7	4	8	4
Wisconsin	9	5	7	7	8	10	4
Wyoming	2	0	1	4	0	4	4

Source: GAO analysis.

Notes: (1) The CPS tax rates were generated based on a 3-year average of 1999, 2000, and 2001 CPS data. The standard allowance of 4 percent was calculated as the median across states of this three-year average; and (2) “Families” are defined to include parents of dependent students and independent students with dependents other than a spouse.

# Appendix V: Comments from the Department of Education



UNITED STATES DEPARTMENT OF EDUCATION

OFFICE OF POSTSECONDARY EDUCATION

THE ASSISTANT SECRETARY

JAN 11 2005

Ms. Cornelia M. Ashby  
Director, Education, Workforce,  
and Income Security Issues  
United States Government Accountability Office  
Washington, DC 20548

Dear Ms. Ashby:

Secretary Paige has asked me to respond to your request for comments on the Government Accountability Office (GAO) draft report, "Need Determination Could Be Enhanced through Improvements in Education's Estimate of Applicant's State Tax Payments," which was transmitted to the Department of Education by your letter of December 21, 2004.

Thank you for the opportunity to review this draft report. My staff had previously shared our technical comments with your office.

We appreciate GAO's acknowledging the Department's obligation under the Higher Education Act of 1965, as amended (HEA), to update annually the tables of allowances for state and local taxes using Internal Revenue Service Statistics of Income (SOI) file data. Absent legislation to the contrary, as was provided in P.L. 108-199, the Consolidated Appropriations Act, 2004, we believe we do not have the authority to ignore the clear statutory requirement to perform the update. Therefore, we request that you reference "proposed state tax rates under the HEA" in the final report rather than using the label "proposed state tax rates of the Department."

At its core, the Federal need analysis divides a family's financial resources into discretionary and non-discretionary (living expenses and taxes) uses, and the portion of discretionary resources that is considered available to pay for postsecondary education expenses is called the expected family contribution (EFC). The HEA provides standard allowances for living expenses and Federal aid applicants report the amount of Federal income taxes they paid on the Free Application for Federal Student Aid (FAFSA). An allowance for Social Security taxes (FICA) is calculated using the earnings from employment also reported on the FAFSA. The allowance for state and local taxes is a state-specific percentage of income that varies by type of student (financially dependent or self-supporting) and income (in the case of parents of dependents students and certain self-supporting students).

Many people seem to believe that a better way to determine the non-Federal tax burden

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of students and their families in the Federal need analysis formula is needed, and we are interested in discussing alternatives in an effort to address that concern. We also recognize the need to work with the Congress because legislation would be needed to alter the statutorily required update. In our view, all four strategies GAO has offered to address shortcomings of the current state and local tax allowance calculation would likely require Congressional action.

Currently, the HEA directs the Secretary to update the tables for parents of dependent students and independent students with dependents other than a spouse. Both tables provide for two allowances, divided by a \$15,000 income threshold. Incorporating additional or different income bands as you suggest would likely require a statutory change. Current law also provides for a single income grouping for dependent students and independent students without dependents other than a spouse, so incorporating income bands for these students would likely require a statutory change as well.

Each of the remaining three strategies GAO identified, replacing the SOI file data with an alternative source, applying a uniform allowance to the incomes of all applicants, and collecting information on state and local taxes directly from Federal aid applicants, clearly would require legislation because SOI file data would not be used. We appreciate your identifying these strategies and will briefly share our views.

The alternative data sources you identified, including Department of Commerce and private, third-party publications, that could be used to substitute for the SOI file data provide a good starting point. As you note, each of these sources has its own limitations and may not result in improved data as compared to the SOI file, but we will review each of them.

In the report, we note GAO's criticism that the update methodology currently used by the Department tends to overstate the non-Federal tax burden for lower income families and understates it for higher income families. However, the third strategy presented in your report requiring a uniform allowance for state and local taxes for all aid applicants would accomplish the same result. This strategy, then, would not seem to be an improvement with respect to the current practice.

We believe that GAO's fourth strategy to have the Department collect state and local tax information directly on the FAFSA would result in an unacceptable increase in burden for both families and institutions. Families, especially those who itemize their Federal income tax deductions, would likely have little difficulty reporting state and local income and property taxes, but reporting consumption taxes would be problematic. Yet, as you note in the draft report, consumption taxes likely represent most non-Federal tax expenditures for lower-income families and therefore, need to be included in order to determine the true tax burden. The burden on institutions would also increase as a result of the need to collect source documents to support amounts reported as state and local tax expenditures for verification purposes. Even though institutions are not required to verify more than 30 percent of their Federal aid applicants under current regulations, it is conceivable that one institution might need to collect supporting documentation, such as

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state income tax returns or property tax bills, from several states and numerous local jurisdictions.

Generally, we agree with GAO's assessment of the impact of the revised tables on Pell Grant program participants, including your estimate that nearly two-thirds of Pell Grant recipients would not be negatively affected by the revised tables of allowances. However, GAO could have provided additional information in the draft report regarding the Pell-ineligible portion of the Federal aid applicant population.

Though we understand your congressional requesters asked you to examine 2004-05 data, the Department has conducted a preliminary analysis for the 2005-06 award year. For the 2005-06 award year, we estimate that slightly fewer than 81,000 Pell recipients would lose their eligibility for Pell Grants. Furthermore, we estimate that about three-fourths of these students would have benefited from the statutory provision that provides a \$400 Pell Grant to any student who otherwise qualifies for a grant of at least \$200 but less than \$400. Similarly, we agree with your assessment of the impact on FAFSA filers whose EFCs would increase as a result of the revised tax tables, namely, that the increase would average about \$500. We estimate that the average family income for this group of Pell-ineligible Federal aid applicants would be almost \$85,000.

We also appreciate GAO acknowledging the difficulty in fully assessing the impact of the updated state tax tables, especially on a state-by-state basis for Pell Grants, but also with respect to the Federal student loan and campus-based programs, as well as state and institutional financial aid programs. The sample of 2002-03 Federal student aid applicants and Pell recipients was drawn to reflect the income characteristics and dependency status of students and prospective students. The sample was not drawn to provide for state-level comparisons. GAO acknowledges this by noting several times that it has less confidence in certain of its estimates for Federal aid applicants in low-enrollment states such as Connecticut, New Mexico and Rhode Island.

In the final report, it would be helpful if you clarified that a change in EFC would not necessarily cause an identical change to a student's award amount in any of the following: Federal student loans, campus-based aid, and state and institutional financial aid programs. For example, you estimate that the average Pell Grant reduction would be \$144. You also estimate that the average Perkins loan reduction would be \$1,200. Clearly, the average student who receives both a Pell Grant and a Perkins loan would not have his or her total financial aid reduced by \$1,344. In other words, include a brief explanation of potential interactive effects.

We are also concerned that you have misinterpreted the Department's intentions with respect to updating these tables of allowances for the 2005-06 award year. When we failed to meet the June 1 deadline specified in section 482 of the HEA for updating all formula parameters for 2005-06, we sent a letter to the relevant Congressional committees, as required by section 482, informing the Congress that we missed the deadline. In that letter, we told Congress that we would publish all formula updates except for the tables of allowances for state and local taxes by June 18. We also said that



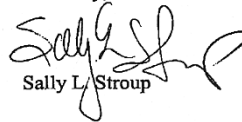
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we were delaying the update of state tax tables pending a thorough review of the available SOI data, and to be able to consider the preliminary findings of the Advisory Committee on Student Financial Assistance's congressionally-directed examination of the procedures used to update formula offsets and allowances. The Secretary did not indicate that he planned to suspend publication of the revised state tax tables this year.

Finally, your recommendation that the Department formalize procedures to ensure that we annually request and obtain the most current tax data from the IRS is already in place and has been in place since 2002, as evidenced by the update published in the spring of 2003. By delaying publication this year until December, we were able to narrow the gap in time between financial data and tax data used for calculating the EFC to a period of two years. This is a substantial improvement over last year when the Department was required to use tax data that resulted in a gap of fifteen years. We intend to continue our efforts to keep the gap in time as narrow as possible for the future.

If you or your staff have any questions, please do not hesitate to contact my office.

Sincerely,



Sally L. Stroup

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# Appendix VI: GAO Contacts and Staff Acknowledgments

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## GAO Contacts

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## Staff Acknowledgments

In addition to those named above, the following people made significant contributions to this report: Jeff Weinstein, Cynthia Decker, Bob Parker, Sue Bernstein, Amy Buck, James Wozny, and Melba Edwards.

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