

Introduction

The Program Access Index (PAI) is one of the measures FNS uses to reward States for high performance in the administration of the Food Stamp Program. Performance awards were authorized by the Farm Security and Rural Investment Act of 2002 (also known as the Farm Bill). The PAI is designed to indicate the degree to which low-income people have access to food stamp benefits.

The PAI is not, strictly speaking, a measure of participation among people eligible for benefits. For most purposes, the participation rate among people eligible for benefits is a better measure of program performance.¹ FNS uses the poverty-based PAI because it is the best measure available in time to meet the law's requirements. The 2002 Farm Bill that authorizes the State performance awards requires payment by the end of the fiscal year following the period of performance – by September 2006 for performance during fiscal year 2005, for example. The timing of the release of the official poverty statistics each year enables calculation of a PAI in time to meet the law's requirements. There is not enough time to complete the more precise estimates of the number of people eligible for food stamp benefits. Waiting for the more precise estimates is inconsistent with the law and would also delay payments to States.

FNS issued a final rule on February 7, 2005 codifying the procedures for calculating and awarding performance bonuses. The final rule modified the calculation of the PAI for calendar year 2005 and beyond and provided FNS with

¹ See for example *Reaching Those in Need: State Food Stamp Participation Rates in 2003* by Laura Castner and Allen Schirm, available on-line at www.fns.usda.gov/oane/MENU/Published/FSP/FILES/Participation/Reaching2003.pdf

the option of using the American Community Survey (ACS) instead of the Current Population Survey (CPS) for poverty count estimates.² In addition, the final rule changed the name of the measure to the Program Access Index (PAI).

The purpose of this step-by-step guide is to describe the calculation of the PAI in detail. It includes all of the data, adjustments, and calculations used in determining the PAI for every State in 2005.

Calculating the PAI

In general, the PAI is a simple index of the average monthly number of food stamp participants over the course of a calendar year to the number of people with income below 125 percent of the official poverty line in each State. FNS computes average monthly participation over a calendar year – rather than the Federal fiscal year – to better align the participation count with the annual poverty measure.

FNS makes an adjustment to the counts of participants, the numerator of this index, to better reflect State performance in the administration of the Food Stamp Program. FNS subtracts out estimates of the number of people who received food stamp disaster assistance. Disaster assistance is approved in limited circumstances and operates under special rules that differ from those of the regular Food Stamp Program. The adjustment is intended to

² FNS recently completed a comparative analysis of the merits of the ACS and CPS surveys and determined that the ACS provided a better basis for the calculation of the Program Access Index beginning with the 2005 high performance bonuses. See *Estimating the Number of People in Poverty for the Program Access Index: The American Community Survey vs. the Current Population Survey* available on-line at www.fns.usda.gov/fsp/rules/Memo/06/080206a.pdf

account for only those disaster assistance recipients who are new to the program – not existing participants who are issued replacement benefits. The quality of this adjustment depends in part on the accuracy of data reported by States to FNS on the operations of disaster assistance programs.

FNS makes two adjustments to the poverty counts, the denominator of the index. Participants in the Food Distribution Program on Indian Reservations (FDPIR) are subtracted from the number of people with income below 125% percent of poverty in each state. Participants in the Food Distribution Program on Indian Reservations (FDPIR) would qualify for food stamps, but have opted to take the FDPIR commodity package instead. In addition, poor

SSI recipients in California are subtracted from the number of people with income below 125% of poverty. By law, SSI recipients in California are ineligible for food stamps because they receive a State-funded cash supplement for food. The number of participants in FDPIR and California SSI recipients offers no information on the effectiveness of State food stamp agency operations.

FNS awards performance bonuses to the four States with the highest PAI and to the four States with the most improved PAI. If a State qualifies under both the best and most improved criteria, it is awarded the bonus for most improved, and the State with the next highest PAI is awarded a bonus for best performance.

Step-By-Step Guide

The description that follows provides a step-by-step description of the calculation of the PAI, using the calculation of the 2005 PAI for Alabama as an example. The column references in the Alabama example as well as the calculations for all States can be found in the accompanying Excel Workbook.

Description	Example (Alabama)
<p>Step 1: Determine number of food stamp participants (CY 2005)</p> <p>The number of annual food stamp participants is the sum of the monthly counts from January to December 2005. The monthly counts are extracted from the Food and Nutrition Service National Data Bank and displayed in the <i>FSP Participants</i> worksheet. The annual total is calculated in the last column of <i>FSP Participants</i>, and carried into Column B of <i>PAI Calculation</i>.</p>	<p>Column B:</p> <p>6,764,433</p>
<p>Step 2: Determine number of FDPIR participants (CY 2005)</p> <p>The number of annual FDPIR participants is the sum of the monthly counts from January to December 2005. The monthly counts are extracted from the Food and Nutrition Service National Data Bank and displayed in the <i>FDPIR Participants</i> worksheet. The annual total is calculated in the last column of <i>FDPIR Participants</i>, and carried into Column C of <i>PAI Calculation</i>.</p>	<p>Column C:</p> <p>0</p>
<p>Step 3: Determine number of disaster assistance participants (CY 2005)</p> <p>The number of disaster assistance participants is calculated in the <i>Disaster Assistance</i> worksheet. State and disaster specific adjustments are made to reflect the disaster policy in effect. For disasters that lasted more than a month, the reduction in</p>	<p>Column D:</p> <p>165,816</p>

<p>participation was adjusted to reflect that. The annual total for all States is displayed in Column I of <i>Disaster Assistance</i>, and carried into Column D of <i>PAI Calculation</i>.</p>	
<p>Step 4: Calculate adjusted number of annual participants (CY 2005)</p> <p>The adjusted annual number of participants is the annual number of FSP participants (Column B) minus the number of disaster assistance recipients (Column D).</p>	<p>Column E:</p> <p>6,764,433 - 165,816 =6,598,617</p>
<p>Step 5: Calculate adjusted average monthly participants (CY 2005)</p> <p>The adjusted monthly average number of participants is equal to the annual number (Column E) divided by 12.</p>	<p>Column F:</p> <p>6,598,617 ÷ 12 = 549,885</p>
<p>Step 6: Determine the number of individuals with income below 125 percent of poverty</p> <p>Estimates of the number of people with income below 125 percent of poverty are published annually by the Bureau of the Census and are available on-line via the American FactFinder. The 2005 ACS estimates are displayed in Column G.</p>	<p>Column G:</p> <p>1,004,423</p>
<p>Step 7: Calculate adjustment for SSI recipients in California</p> <p>This adjustment is based on the number of SSI recipients among the population with income below 125 percent of the official poverty threshold in California. In 2005 287,382 poor individuals in California received SSI. Column H provides the estimate based on the 2005 ACS and is available on-line via the DataFerrett.</p>	<p>Column H:</p> <p>N/A</p>
<p>Step 8: Calculate monthly FDPIR participants (CY 2005)</p> <p>The monthly average number of FDPIR participants is equal to the annual number of FDPIR participants (Column C) divided by 12.</p>	<p>Column I:</p> <p>0 ÷ 12 = 0</p>
<p>Step 9: Calculate adjusted number of people with income below 125 percent of poverty</p> <p>The adjusted number of people with income below 125% of poverty is equal to the official counts of persons below 125% of poverty (Column G) minus the Monthly FDPIR Participants (Column I). For California, the adjusted number of people in poverty (Column J) is equal to the official counts of persons below 125% of poverty (Column G) minus the Monthly FDPIR Participants (Column I) minus the SSI adjustment (Column H). The SSI adjustment is not applied in any other State.</p>	<p>Column J:</p> <p>1,004,423 -0 -0 =1,004,423</p>

<p>Step 10: Calculate the Program Access Index for 2005</p> <p>The final PAI is an index of the adjusted count of participants to the adjusted estimate of persons living at 125% below the official poverty line, Column F divided by Column J.</p>	<p>Column K:</p> $\begin{array}{r} 549,885 \\ \div 1,004,423 \\ = 0.547 \end{array}$
<p>Step 11: Rank Order States by Program Access Index</p> <p>State rankings are determined in descending order, from highest to lowest. The four (4) States with the highest ranks qualify for a performance award for best performance.</p>	<p>Column L:</p> <p>21</p>
<p>Step 12: Determine the Program Access Index for 2004</p> <p>The 2004 PAI was calculated in the same fashion, using prior year data.</p>	<p>Column M:</p> <p>0.533</p>
<p>Step 13: Calculate the difference between 2005 and 2004 PAIs</p> <p>The difference is equal to the 2005 PAI (Column K) minus the 2004 PAI (Column M). This provides the percentage point difference between 2004 and 2003. A positive difference indicates improvement; a negative difference indicates a reduction.</p>	<p>Column N:</p> $\begin{array}{r} 0.547 \\ - 0.533 \\ = 0.014 \end{array}$
<p>Step 14: Rank Order States by the difference in 2005 and 2004 PAIs</p> <p>State rankings are determined in descending order, from highest to lowest. The four (4) States with the highest ranks qualify for a performance award for most improved.</p>	<p>Column O:</p> <p>26</p>

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, political beliefs, sexual orientation, or marital or family status. (Not all prohibited bases apply to all programs.)

Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at (202) 720-2600 (voice and TDD).

To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, S.W., Washington, DC 20250-9410 or call (202) 720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.