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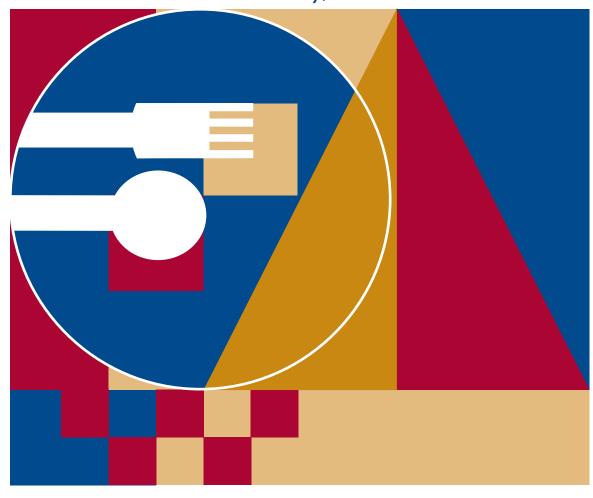
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Food Assistance and Nutrition Research Program

Final Report Fiscal 2006 Activities

Economic Research for a Healthy, Well-Nourished America





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Chapter 1. The Food Assistance and Nutrition Research Program

Since 1998, Congress has provided funds to USDA's Economic Research Service (ERS) to study and evaluate the Nation's domestic food and nutrition assistance programs, including the Food Stamp Program, the child nutrition programs, and the Special Supplemental Nutrition Program for Woman, Infants, and Children (WIC). ERS established the Food Assistance and Nutrition Research Program (FANRP) to carry out these activities. FANRP's mission is to conduct "economic research for a healthy, well-nourished America."

Since its establishment, FANRP has become the premier source of food and nutrition assistance research in the United States. FANRP has supported research on a wide range of policy-relevant food and nutrition assistance topics, resulting in over 600 publications. FANRP has also enhanced national surveys by adding a food assistance dimension and broadened the participation of social science and nutrition science scholars in food assistance and nutrition policy issues.

This report provides a summary of FANRP: Chapter 1 provides a general overview of the program, while chapter 2 focuses on FANRP activities conducted during fiscal 2006 (October 1, 2005-September 30, 2006). Chapter 3 presents a list of all FANRP-sponsored publications released in fiscal 2006; and chapter 4 lists all FANRP-sponsored publications released in previous fiscal years. Appendix A lists all the institutions, universities, and government agencies that have been awarded FANRP projects since FANRP started in 1998, appendix B identifies those who served as peer reviewers for FANRP's Competitive Grants and Cooperative Agreements Program in fiscal 2006, and appendix C lists the grants awarded through the RIDGE program in fiscal 2006.

Research Goal

Food assistance and nutrition programs receive substantial Federal funding and affect the daily lives of millions of Americans. For example, in fiscal 2006, monthly participation in the Food Stamp Program averaged 26.7 million Americans, at an annual cost of

about \$32.8 billion. On a typical school day, some 9.8 million children participated in the School Breakfast Program and 30.0 million children participated in the National School Lunch Program, which together cost \$10.2 billion. On average, WIC served 8.1 million people each month at an annual cost of \$5.1 billion. At some point during the year, one in five Americans are estimated to participate in at least one of USDA's food and nutrition assistance programs. Expenditures for all of the food and nutrition assistance programs totaled \$52.9 billion in fiscal 2006. Given the significance of the food and nutrition assistance programs, it is important that FANRP provides objective, scientifically rigorous studies and evaluations. Our goal is a high-quality, multidisciplinary program that focuses on today's problems while addressing tomorrow's issues.

Program at a Glance

FANRP's research on the food and nutrition assistance programs is designed to meet the critical needs of USDA, Congress, program managers, program participants, the research community, and the public at large. The three perennial program themes of FANRP are as follows:

- *Diet and Nutritional Outcomes*—Studies how the programs enhance access to and choices of palatable, nutritious, and healthy diets.
- Food Program Targeting and Delivery—Gauges the success of programs aimed at needy, at-risk population groups and examines program gaps and overlaps; differences between rural and urban delivery; outreach; waste, fraud, and abuse; commodity procurement and distribution; public and private partnerships; and alternative ways to deliver benefits.
- Program Dynamics and Administration—Focuses
 on how program needs change with local labor market conditions, economic growth, recession, and
 inflation in food prices and the general economy
 and how welfare programs interact with food and
 nutrition programs.

Within these general themes, priority areas of research are selected annually. In developing the research priorities, FANRP works closely with USDA's Food and Nutrition Service (FNS), the agency responsible for administering the Department's food assistance and nutrition programs. FANRP also seeks input from a broad constituency of policy officials, researchers, practitioners, advocates, industry groups, and service providers.

In conjunction with these activities, FANRP sponsors an annual roundtable discussion, open to the public, to identify crucial research and information needs that would support food assistance and nutrition programs and to ensure the policy and program relevance of the annual research agenda.¹

Intramural and Extramural Components

FANRP integrates an intramural and extramural research program. The intramural program, conducted internally by ERS staff, continues ERS's long, distinguished history of conducting rigorous, objective, and policy-relevant research. The intramural program uses ERS's large research capacity, taking advantage of the agency's internal research capital and specialized knowledge base.

At the same time, FANRP funds extramural research, often conducted jointly with ERS staff, that draws upon the multidisciplinary expertise of outside researchers and the resources of such institutions as the National Academy of Sciences, National Science Foundation, National Bureau of Economic Research, Urban Institute, RAND Corporation, and numerous universities across the country.² FANRP funds extramural projects through competitive contracts and through a tightly run peer review process for awarding competitive grants and cooperative agreements. Peer reviewers include experts from academia, government, and the private sector.

FANRP also sponsors the Research Innovation and Development Grants in Economics (formerly Small

Grants) Program to stimulate new and innovative research on food assistance and nutrition issues and to broaden the participation of social science scholars in these issues.³ Findings resulting from both intramural and extramural research are widely disseminated in accordance with FANRP principles.

FANRP Key Accomplishments

Since its beginning in 1998, FANRP has conducted a wide range of research activities. This section describes some of FANRP's recent key accomplishments in the areas of food and nutrition assistance research, data development, enhancing the research base, and research dissemination.

FANRP Principles

The program principles behind FANRP ensure the reliability and usefulness of the research.

- Research that meets the needs of all stakeholders program participants, USDA, Congress, and the public.
- Integrated, comprehensive program that conducts research in the broader context of the current and future economic and social environments.
- Broad array of public and private entities directly involved in the research, evaluation, and review efforts.
- Integration of ERS staff expertise in the development, implementation, and accomplishment of research projects.
- Scientifically rigorous studies and evaluations with verifiable and unbiased results.
- Rigorous internal and external review of research results.
- Public availability of data.
- Wide distribution of research findings.
- Development and maintenance of continuous data sets.

¹The 2006 roundtable discussion "Food Assistance Research Conference: Recent Findings and Emerging Issues," was held February 15, 2006, at ERS in Washington DC. The conference agenda can be found at www.ers. usda.gov/Briefing/FoodNutritionAssistance/ConferenceMaterials/conference2006.htm.

²See appendix A for a list of all institutions, universities, and government agencies that have been awarded FANRP projects since its establishment in 1998.

³FANRP sponsors an annual RIDGE (formerly Small Grants) Program Conference in which grant recipients present the results of their work on food assistance programs, food security, and nutrition. A copy of the agenda for the 2006 conference, held on October 12-13, 2006, at ERS in Washington, DC, can be found at www.ers.usda.gov/ConferenceCenter/FANRP/FANRPOctober06/agenda.htm.

Food Assistance and Nutrition Research

FANRP has developed a multifaceted research plan to address the needs of diverse groups of stakeholders that has resulted in an extensive portfolio of successful research projects. These projects have expanded understanding on a wide range of food and nutrition assistance issues, including diet and nutritional outcomes, food program targeting and delivery, program dynamics and administration, and program interactions.

Diet and Nutritional Outcomes

USDA's food and nutrition assistance programs share the main goal of ensuring the health of vulnerable Americans by providing access to a nutritionally adequate diet. In fiscal 2005, FANRP released a landmark report that provides the most systematic and comprehensive assessment to date of published research on the impact of the food and nutrition assistance programs on participants' nutrition and health (Fox et al., October 2004). The report's research team reviewed and synthesized research from over 300 publications that examined the impact of program participation on a number of outcomes. The outcomes included household nutrient availability, dietary intake, medical biomarkers of nutrition status, food expenditures, food security, birth outcomes, breastfeeding behaviors, immunization rates, use and cost of health care services, and selected nonhealth outcomes, such as academic achievement and school performance of children and social isolation of the elderly.

In recent years, concerns about the nutritional adequacy of the diets of certain population subgroups have been raised. Subgroups of particular interest include adolescent females, older adults, children and adults at risk of overweight, individuals living in food-insufficient households, low-income individuals, and individuals targeted by and participating in food and nutrition assistance programs. One FANRP study provided a comprehensive assessment of the diets of these subgroups using current dietary reference standards, focusing on the risk of inadequate nutrient intake, excessive intake, or dietary imbalances (Devaney et. al., 2005). The study indicated inadequate intakes of some key micronutients for some subgroups. Diet adequacy was also found to deteriorate as individuals got older—children had diets that are more nutritionally adequate than those of adolescents and adults. The study adds to a growing literature that uses current, improved knowledge of nutrient requirements and recommended nutrient assessment methods to assess nutrient intakes.

FANRP has helped advance understanding of the economic factors and behaviors that affect obesity—a national epidemic that disproportionately affects the poor. The Food Stamp Program was designed to serve as a first-line defense against hunger by boosting food consumption and energy intake. However, as the major nutrition problems facing the U.S. population have shifted from too little intake to overconsumption, some have questioned whether food stamps encourage participants to eat too much and make them more prone to obesity. A recent ERS article compared weight status and obesity rates in Food Stamp Program subgroups with those of low and higher income nonparticipants (Ver Ploeg et al., 2006). Results indicate that the association of food stamp participation and weight status is inconsistent and varies across population subgroups and time.

FANRP also helped fund the new international Child Growth Standards for infants and young children by the World Health Organization (WHO).⁴ The previous growth reference, based on data from a limited sample of U.S. children, did not adequately represent early childhood growth. The new standards, using the breastfed child as the norm for growth and development, bring coherence between the tools used to assess growth and national and international infant feeding guidelines, which recommend breastfeeding as the optimal source of nutrition during infancy. The new growth standards will allow accurate assessment, measurement, and evaluation of breastfeeding and complementary feeding.

FANRP plays a major role in Federal research on food security and hunger in the United States. Since 1998, FANRP has published an annual statistical report on the level of household food insecurity in the United States that informs policymakers and the public about the extent to which U.S. households consistently have economic access to enough food (Nord et al., 2005). The estimates of food insecurity are based on responses to a series of questions in a household survey. The annual reports and their underlying data are widely used by government agencies, the media, and advocacy groups to monitor the extent of food insecurity in the U.S., to monitor the progress toward national objectives, and to monitor the performance of USDA's food assistance programs. FANRP recently funded a study by the Committee on National Statistics (CNSTAT) of

⁴The WHO Child Growth Standards can be found at www.who.int/ childgrowth. See World Health Organization (2006) for information on the methods and development of the new growth standards.

the National Research Council to review the concepts and methodology for measuring food insecurity and hunger and the uses of the measures. The committee affirmed the importance of the food security information and recommended that USDA continue to measure and monitor food insecurity regularly in a household survey. While confirming the appropriateness of the general methodology used to measure food insecurity, the committee recommended that a different method be developed to measure hunger (National Research Council, 2006).

Program Targeting and Delivery

Food Stamp Program caseload declined dramatically in the late 1990s, a period characterized by an unusually strong economy and by major changes in the public assistance landscape following the welfare reform legislation of 1996. This decline led policymakers and analysts to focus on the broad question of what factors influence Food Stamp Program participation, including the possible role of local food stamp office policies and practices in encouraging or deterring households' participation decisions. FANRP sponsored a national study of Food Stamp Program accessibility at the local office level. The study collected information on the policies and practices of 109 local food stamp offices, the characteristics of participant and nonparticipant households in surrounding areas, and the reasons that some eligible households do not participate in the Food Stamp Program (Bartlett et al., 2004; Bartlett and Burstein, 2004; and Gabor et al., 2003).

In 2005, FANRP evaluated USDA's Elderly Nutrition Demonstrations—six pilot projects aimed at testing ways to increase Food Stamp Program participation among eligible elderly individuals (Cody and Ohls, 2005). Historically, the low-income elderly participate in the Food Stamp Program at relatively low rates. USDA designed three models, each using different techniques to reduce the barriers that seniors face in participating in the program. The techniques involved reducing the time and effort of applying for benefits, aiding seniors in navigating the application process, and giving seniors the option of receiving commodity packages instead of getting benefits through electronic benefits transfer (EBT) cards. The study found that demonstration models can increase the number of participating seniors by 20-35 percent but that costs can be significant, ranging from \$402 to \$3,800 per participant.

Another recent FANRP study examined the role of time limits on benefit receipt, deadlines for reconfirming

eligibility, and other administrative policies on participation in South Carolina's cash and food assistance programs (Ribar et al., 2006b). The time limit in South Carolina's Temporary Assistance for Needy Families (TANF) program is much shorter than in most other States—families are generally restricted to 2 years of benefit in any 10-year period. Across States, intervals between recertifications for the Food Stamp Program vary from a few years to a year or more. Families in the South Carolina Food Stamp Program were required to recertify their eligibility at regular intervals—quarterly or annually before October 2002 and semi-annually or annually afterwards. The study showed that South Carolina's 2-year time limit hastens exits from and decreases returns to its TANF program and that the State's initial policy of quarterly recertifications hastens exits from the Food Stamp Program. Employment speeds exits from the food stamp and cash assistance programs and delays returns to the programs. There was also evidence that participation in cash assistance leads to longer spells of receiving food stamps.

Program Dynamics and Administration

An essential objective of FANRP is to provide research to policymakers that improves program operations. For example, understanding the implications of income volatility for food assistance is particularly important if the programs are to effectively serve the needy. Households are eligible to receive food assistance program benefits if household income falls below a certain threshold (in some programs, household income also affects the amount of program benefits). Which families are low-income and for how long are important issues for program policy, and income volatility—month-to-month changes in a household's income—directly affects those policy decisions. A recent study examined income volatility among households with children and the implications of volatility for eligibility for free and reduced-price meals in the National School Lunch Program (Newman, August 2006). The study found that the lower a household's income, the more likely it is to face volatile swings in monthly income. Such volatility meant that before new rules were enacted in the National School Lunch Program that redefined eligibility, the children in these households moved back and forth across the income eligibility threshold for the program. Over one-quarter of all households that were income eligible for subsidized lunches at the beginning of the school year were estimated to be no longer eligible at the same level of subsidy by December due to monthly income changes. The major determinants of

changes in eligibility were changes in total household hours worked and in the percentage of working adults in the household. Income volatility helps explain why in past years many school lunch beneficiaries were found to be ineligible during verification.

Another recent report examined the cost to the WIC program of providing infant formula to participants (Oliveira and Davis, 2006). Rebates from infant formula manufacturers are an important component of WIC, totaling over \$1.5 billion annually, an amount that supports one-quarter of all WIC participants. The cost to WIC for each can of formula provided through the program has two components: (1) net wholesale price, which is equal to the wholesale price of formula minus the amount of the rebate; and (2) retail markup, which is that portion of the retail price that goes to the retailer. The study found that both cost components have increased over time, and retail markup now accounts for most of the costs to WIC of infant formula in most States.

Providing food stamp benefits to households without errors in eligibility or benefit amount is a major goal of the Food Stamp Program. From 1993 to 2001, the annual cost of overpayments fell by \$810 million. A FANRP-funded study examined the role of administrative spending in the Food Stamp Program that contributed to this trend (Logan et al., 2006). The findings provide strong evidence that, beginning in 1995, an increase in reported certification-related costs per Food Stamp Program household contributed to reduced error rates. However, in the period after welfare reform, additional effort on certification-related activities was needed to achieve a given level of accuracy. Models predict that, if a State's Food Stamp Program certification budget is fixed and the number of Food Stamp Program households increases, then the administrative effort per household will fall and error rates will rise, all other things equal.

Program Interactions

The economic impacts of food assistance programs often extend beyond program participants. For example, WIC purchases over half of all infant formula sold in the United States. Because of its buying power, WIC gets large discounts in the form of rebates from infant formula manufacturers. Congress expressed concern about the possible effects of WIC on the price paid by non-WIC consumers of infant formula. Based on the most comprehensive national study ever of retail infant formula prices, FANRP research found that WIC and its rebate program modestly raised the supermarket

price of infant formula but that lower priced infant formulas are available to non-WIC consumers in most areas of the country (Oliveira et al., 2004).

Food assistance programs also have economic effects on agriculture and the general economy because they generate demand for food and farm products. ERS has estimated this relationship and the work has been particularly useful to Congress. In addition, food assistance programs provide an "in-kind" income support for low-income people that automatically expands during recessions and contracts during periods of economic growth. FANRP research has shown that a 1-percentagepoint increase in the unemployment rate results in about 700,000 more food stamp recipients during the first year and about 1.3 million more in the long run.⁵ This automatic response helps to stabilize the overall economy and to direct Federal spending to areas most in need. FANRP's economic perspective has brought attention to this vital relationship and its budgetary implications for USDA.

Data Development

Data development is a high priority in FANRP because data sustain the program's research on food assistance programs and the environment in which they operate. Investments in new and ongoing data collections provide a critical foundation for addressing new and emerging food assistance issues. FANRP funding has enhanced food assistance data collection in a number of nationwide surveys. Since 1998, FANRP has sponsored the annual Food Security Supplement to the Census Bureau's Current Population Survey. The supplement provides the data used to develop national statistics on food insecurity, and hunger.

FANRP also provides funding for the U.S. Department of Education's Early Childhood Longitudinal Study (ECLS), which is made up of two cohorts that provide national data on children's status at birth and at various points thereafter through the fifth grade. Data from the ECLS are being used to test hypotheses about the effects of food assistance programs on a range of issues, including children's development, school performance, and obesity.

FANRP also helps support the collection of information about the nutritional status and diet of food assistance program participants through the National Health and Nutrition Examination Survey (NHANES)

⁵More detailed information can be found at http://www.ers.usda.gov/Briefing/GeneralEconomy/impact.htm.

conducted by the Centers for Disease Control and Prevention, U.S. Department of Health and Human Services.

FANRP has developed several electronic data products for public use. For example, the Food Stamp Program Map Machine is an interactive web-based mapping utility that illustrates program participation and benefit levels down to the county level (www.ers.usda.gov/data/foodstamps/).

Expanding the Research Base

FANRP uses two mechanisms to promote research from a broad arena—the Competitive Grants and Cooperative Agreements Program and the RIDGE program.

The Competitive Grants and Cooperative Agreements Program

This program awards grants and cooperative agreements up to \$400,000. The program is announced publicly via the ERS website, ERS e-mail updates, and postings on various listservs (e-mail-based discussion forums). The proposal evaluation process includes peer review panels consisting of experts from academia, government, and the private sector. In addition to reviewer's comments, FANRP's selection process considers coverage of priority research areas, overlap between proposals and ongoing projects, program needs, potential benefits from research collaborations on particular projects, and availability of funding. FANRP's competitive grants and cooperative agreements program, with

FANRP Successfully Implemented Grants.gov in FY 2006

FANRP implemented Grants.gov application procedures to the Competitive Grants and Cooperative Agreements Program in fiscal 2006. Grants.gov uses electronic technology to enhance the process of tracking Federal grant opportunities. Applicants can both search for and apply for grant funds online through a single access point (i.e., a common website), dramatically streamlining the application, review, and award process. During this transition year, applications to the Competitive Grants and Cooperative Agreements Program were allowed in both electronic and paper forms. Starting in fiscal 2007, FANRP anticipates using Grants.gov exclusively, thereby eliminating paper submissions entirely.

a description of the application process, typically is announced each year in mid-March. The deadline for submission of proposals is generally in late May, and the awards are announced in mid-October.

The Research Innovation and Development Grants in Economics (RIDGE) Program

Formerly known as the Small Grants Program, the program was renamed the Research Innovation and Development Grants in Economics (RIDGE) program in 2006. The new name better reflects the program's purposes: (1) to stimulate new and innovative research on food and nutrition policy issues and (2) to broaden the participation of social science scholars in the research effort.

The program supports both quantitative and qualitative research methods to explore economic, nutrition, and health outcomes of participation in USDA food assistance programs as well as issues surrounding program implementation and delivery. RIDGE grants last for 1 year; most are in the range of \$20,000-\$40,000. Funded by ERS, the RIDGE program is administered through selected universities and their associated research institutes located at five sites. Each of the five institutions takes a different aspect of food assistance, nutrition, or subgroup of recipients as its primary focus. The five institutions and their area of focus are as follows:

The Irving B. Harris Graduate School of Public Policy Studies, University of Chicago—Interactions between food assistance and other welfare programs and linkages between the macroeconomy and food assistance.

Institute for Research on Poverty at the University of Wisconsin—Understanding the relationships among the food assistance safety net, poverty, and well-being.

The American Indian Studies Program at the University of Arizona—The relationship between family poverty and food assistance programs among Native Americans.

The Southern Rural Development Center at Mississippi State University—The relationship between food assistance and rural people, families, and communities in the South.

The Department of Nutrition at the University of California, Davis—The impact of food assistance programs on nutritional risk indicators (clinical, anthropometric, biochemical, and dietary), food purchasing practices, and food insecurity.

⁶Appendix B identifies those who served as peer reviewers for the Competitive Grants and Cooperative Agreements Program in fiscal 2006.

Research Dissemination

In accordance with program principles (see box, p. 2), FANRP strives to make all of its research readily available and in accessible formats for a variety of technical and nontechnical audiences. To do this, FANRP uses publications and hosts and participates in various conferences. ERS-produced reports are the primary vehicle for documenting and showcasing FANRP research. ERS publishes an array of outputs for a variety of purposes and audiences. In 2005, ERS revamped their publication series. Economic Research Reports (ERRs) are a departmental series and are available in both paper and electronic form. These technical or semitechnical reports present original economic analysis, findings, and implications primarily for public decisionmakers and researchers.

Other departmental series include Economic Briefs (EBs) and Economic Information Bulletins (EIBs). These nontechnical publications, intended for a broader audience, provide concise, timely insights from recent ERS research. The Food Assistance Landscape is an EIB that is published biannually. It provides an overview of USDA's domestic food assistance programs, including recent program statistics, information on related economic and social indicators, and highlights of recent FANRP research (Oliveira, September 2006).

Contractor and Cooperator Reports (CCRs), which result from FANRP's extramural research program and are available in electronic form only, are a component of the ERS effort to serve the public with e-government technologies and the ERS website.⁸ The views expressed in CCRs, unlike reports in the departmental series, are those of the authors and not necessarily those of ERS or USDA (FANRP, in accordance with program principles, makes its research publicly available). In addition to the series of reports, articles on food assistance and nutrition-related topics are often featured in the ERS periodical, *Amber Waves*. All ERS publications are available at the ERS website.

FANRP research targeted to narrower, more technical audiences can be found in a wide range of professional journals. Each year, ERS staff also present findings from FANRP research at numerous professional meetings across the country. The meetings are sponsored by such groups as the American Association of Food Stamp Directors, the National WIC Association, the

School Nutrition Association, the American Public Human Services Association, the National Association for Welfare Research and Statistics, the Society for Nutrition Education, the Association for Public Policy Analysis and Management, and the American Agricultural Economics Association.

To encourage interaction among researchers and policymakers, FANRP organizes and sponsors conferences and workshops. Two are held annually—the RIDGE (formerly Small Grants) Program Conference and the Food Assistance Research Conference: Recent Research and Emerging Issues. Other conferences, often co-sponsored with other institutions, are hosted to address timely and policy-relevant topics. For example, in previous years, FANRP hosted conferences on Income Volatility and Implications for Food Assistance Programs, Food Security Measurement and Research, Rural Dimensions of Welfare Reform, and the Economics of Obesity.

FANRP Tomorrow

Through its annual identification of priority research areas, FANRP responds to immediate as well as long-term research needs. FANRP will continue to seek input from key constituencies, such as policy officials, program and research leaders, and the Food and Nutrition Service to identify and prioritize research needs. FANRP will also continue to integrate intramural research with its extramural program, enhancing its capacity to address policy and research needs of USDA's food assistance and nutrition programs in a timely, objective, and cost-effective manner.

The following is a list of some of the important research projects funded by FANRP in previous years that are scheduled to be completed in the near future:

- Income Volatility and Its Effect on Food Stamp Participation of the Working Poor.
- Economic Determinants of School Meal Participation.
- WIC and the Economics of Infant Formula Contracts, Rebates, and Wholesale Prices.
- Future Costs of Childhood Obesity: Estimates and Implications.
- Analyzing the Welfare and Nutritional Effects of Food Taxes Intended To Promote Healthful Eating Habits.

⁷ERRs replace the Food and Nutrition Research Report (FANRR) series.

⁸CCRs replace the Food Assistance and Nutrition Research Program's
E-FAN series.

- Commodity Supplemental Food Program: Participation and Administration.
- Basic Needs, Tough Choices: The Impact of Housing Costs on Food Consumption.
- Employment, Home Meal Production, Food Spending, and Food Security in Food Stamp Households.
- Effective Tax Rates and Guarantees and Food Stamp Program Participation.
- Food Sufficiency, Food Stamp Program Participation, and the Health of the Elderly.
- Ecological Predictors and Development Outcomes of Persistent Childhood Obesity.
- Evaluating Changes in WIC Participant Food Purchasing Patterns as a Result of Nutrition Education.

Chapter 2. Fiscal 2006 FANRP Activities

This chapter describes FANRP activities in fiscal 2006, first providing an overview of the extramural program, then describing the specific FANRP projects funded, and presenting a list of reports and journal articles based on FANRP projects published during the year.

Extramural Research Program, Fiscal 2006

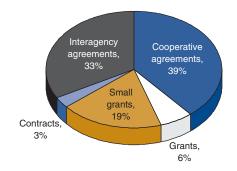
To meet the program needs of the Department and promote research from a broad arena, FANRP uses a variety of funding mechanisms in its extramural programs.

Contracts are used when a very specific product is required, such as data collection. One contract, for \$139,281, was awarded in fiscal 2006. It funded a review and examination of recent findings of inadequate or excessive intake of nutrients among certain subgroups based on new Dietary Reference Intakes (DRIs) standards and new assessment methodologies.

Grants and cooperative agreements are used when the intent is to stimulate new and innovative research or to undertake projects jointly with ERS researchers. Grants are awarded when the research project supports the general public good and does not require substantial involvement between ERS staff and the extramural researchers during the performance of the award. Cooperative agreements, awarded when the research project requires more substantial involvement between ERS and the extramural researchers, enable ERS staff to supplement their own expertise with the knowledge and resources of academic and private institutions.⁹

The Competitive Grants and Cooperative Agreements Program is publicly announced and competitively awarded based on peer review, research priorities, and availability of funding. Funding for 10 cooperative

Share of Extramural Awards by Type, Fiscal 2006



agreements totaled \$1,483,925 in fiscal 2006. In addition, two competitive grants were awarded for \$271,000. The acceptance rate for proposals of cooperative agreements and grants was about one in three, or in dollar terms, roughly \$1 in \$5.

In addition, eight cooperative agreements (including amendments to existing agreements) were awarded outside the competitive program just discussed. These agreements, totaling \$291,719, were awarded to fill special research needs of the ongoing internal research program. For example, the largest award, in the amount of \$75,000, sponsors a workshop to discuss the analysis of food choices, dietary behavior, and diet-related health outcomes using a behavioral economics approach.

The RIDGE (formerly Small Grants) program funds grant competitions through five diverse institutions. Each institution focuses on a particular facet of food assistance, such as diet and health outcomes, relationships to poverty and well-being, rural issues, and special at-risk population groups. Funding for the program totaled \$899,465 in fiscal 2006. Grants awarded in fiscal 2006 are listed in appendix C.

Interagency agreements are used to enhance food assistance data development through cost-sharing partnerships and to fund cooperative interagency research on program interactions and policy issues. Funding for interagency projects totaled \$1,532,507, including funding for data collection in the National Health and Nutrition Examination Survey, Early Childhood Longitudinal Studies, and the Food Security Supplement to the Current Population Survey.

⁹There are two types of cooperative agreements: cooperative research agreements and assistance-type cooperative agreements. In a cooperative research agreement, ERS staff and the extramural researcher(s) are close collaborators and contributors to support the research; in an assistance-type cooperative agreement, the extramural researcher(s) are responsible for conducting the greater part of the work on the project. Cooperative research agreements require both parties to contribute to the funding of the project; assistance-type cooperative agreements do not have this joint funding requirement.

2006
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Table 1

	53, 136al 2000	
Research Projects/Awards	Objective	Estimated Cost
Economic Incentives in Food Assistance Programs		
Association Between Prenatal WIC Exposure and Maternal Behavior, Health, and Birth Outcomes National Bureau of Economic Research	To examine the effect of prenatal participation in the Special Supplemental Nutrition Program for Woman, Infants, and Children (WIC) on a wide range of outcomes, including fetal growth, smoking and drinking during pregnancy, smoking cessation, greater prenatal care, maternal weight gain, anemia, multivitamin consumption, and breastfeeding. The study will use data from nine States participating in the Pregnancy Nutrition Surveillance System (PNSS).	\$180,000
The Food Distribution Program on Indian Reservations: Still "An Acceptable Alternative" to Food Stamps? The Urban Institute	To compare the Food Distribution Program on Indian Reservations and the Food Stamp Program with regard to eligibility, participation, administration, and possible effects on health and nutrition. The project will combine qualitative data obtained from in-depth site visits to four tribal reservations with quantitative analyses of both program administrative data and survey data obtained from the Current Population Survey (CPS), the Navajo Health and Nutrition Survey, and the California Health Interview Survey.	\$267,000
Food Stamp Program Certification Costs and Errors, 1989-2005 Abt Associates Inc.	To examine the causes of recent declines in Food Stamp Program error rates, including the possible role of recent options for program simplification and new emphasis on access. The project will also examine the role of State program policies, caseload characteristics, economic conditions, and expenditures on certification-related activities. The project will extend previous analyses of the period 1989-2001 to include data through 2005.	\$130,000
Food Stamp Program Eligibility and Participation: A Comparison of Census Surveys and Administrative Data University of Chicago	To better understand factors associated with the underreporting of Food Stamp Program participation in household surveys. The project links administrative data from Maryland and Illinois with survey data from the Current Population Survey (CPS) and American Community Survey (ACS) to determine the level of agreement between the survey and administrative data. The linked data will also be used to examine factors related to Food Stamp Program participation among eligible individuals.	\$150,000
Effects of Changes to State and Federal Asset Eligibility Policies for the Food Stamp Program Mathematica Policy Research, Inc.	To assess the effects of recent and proposed changes to the asset and categorical eligibility policies in the Food Stamp Program. Estimated effects will include changes in benefit costs, administrative costs, participant characteristics, and State-to-State equitability of the program. Results will provide policymakers with information on how different types of households would fare under various policy scenarios.	\$130,000
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Research Projects/Awards	Objective	Estimated Cost
The Costs of Delivering Benefits Through the Food Stamp Program as Compared With Other Major Benefit Programs Brookings Institution	To compare the costs of delivering benefits to families through the Food Stamp Program with costs in other major benefits programs, including the Earned Income Tax Credit (EITC), and Temporary Assistance for Needy Families (TANF). Costs of benefit delivery to be examined include administrative costs, error rates, recipient burden, and nonparticipation by eligible families. The study will also examine the expected impacts on costs and efficiency of benefit delivery of various reforms to the Food Stamp Program.	840,000
Creating a WIC Infant Formula Rebate Data Set and Researching Infant Formula Manufacturers' Rebate Bidding Strategies South Dakota State University	To examine patterns and trends in the infant formula rebate auctions of the Special Supplemental Nutrition Program for Woman, Infants, and Children (WIC). Typically, WIC State agencies obtain substantial discounts in the form of rebates from infant formula manufacturers for each can of formula purchased through the program. In exchange for the rebates, a manufacturer is given the exclusive right to provide its product to WIC participants in the State. Previous research suggests that rebate levels may be decreasing. This project will conduct a more in-depth analysis by extending the available data set and using econometric methods to examine the bidding strategies of the infant formula manufacturers.	\$34,946
Food Choices, Obesity, and Human Capital		
Understanding Determinants of Food Assistance Program Participation Decisions on Indian Reservations: A Framework for Program Assessment University of Nevada	To develop a study plan, methodology, and instrumentation that addresses the research question: What are the determinants of USDA food assistance program participation decisions of Native Americans on reservations? Issues of interest will include consumer valuation of USDA commodity donations; how choices are made between participation in the Food Stamp Program and the Food Distribution Program on Indian Reservations; and the role of food prices, store access, and nutrition/health information in food consumption decisions of Native Americans.	835,000
School Meal Program Participation, Food Consumption Away from School and Home, and Obesity Among Students Mathematica Policy Research, Inc.	To examine the effects of participation in the National School Lunch Program and School Breakfast Program on key factors involved in childhood obesity, such as students' dietary behaviors (consumption of beverages, low-nutrient energy-dense foods, and fruits and vegetables; caloric intake at school, at home, and away from school/home), weight, and body mass index (BMI). This research will shed light on the overall effect of school meal participation on obesity as well as distinguish the roles of the food environment both within and outside of school.	\$240,000
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Research Projects/Awards	Objective	Estimated Cost
Exploring the Link Between Food Assistance Programs and Child Obesity The Urban Institute	To examine the effect of participation in the Food Stamp Program, the National School Lunch Program, and the School Breakfast Program on child weight using data from the Early Childhood Longitudinal Study-Kindergarten Class of 1998-99 (ECLS-K) and a range of econometric approaches. In particular, the study will examine participation in food assistance programs and its effects on food intake and food security and their subsequent effects on child weight.	\$235,000
The School Breakfast Program: Participation and Impacts University of Wisconsin-Madison	To identify household and contextual factors that are predictive of participation in the School Breakfast Program, to determine the impact of program availability on the likelihood that students eat breakfast, and to assess the impact of participation on household food security. The study will use data from the Early Childhood Longitudinal Study-Kindergarten Class of 1998-99 (ECLS-K).	\$120,000
Re-examination of the Dietary Reference Intakes for Food Energy, Zinc, Vitamin A, Vitamin E, Fiber, and Potassium Mathematica Policy Research, Inc.	To review the Dietary Reference Intakes (DRIs) for food energy, zinc, vitamin A, vitamin E, fiber, and potassium to determine whether recent findings of dramatic dietary deficiencies or excesses among certain subgroups represent true dietary problems or stem from methodological weaknesses in the derivation of the new dietary reference standards.	\$139,281
Diet, Weight, and USDA School Meal Participation University of Illinois	To examine factors that influence the decision to participate in the USDA free or reduced-price school meal programs and determine the association of school meal participation with weight status and dietary behaviors. The study will use the Child Development Supplement of the Panel Study of Income Dynamics (PSID) to examine neighborhood, school, household, and individual factors associated with participation in the School Breakfast Program and the National School Lunch Program at the free or reduced-price levels.	\$31,803
Food Assistance as a Safety Net		
Where Is the Threshold? Estimation of the Money-Time Threshold for Food Stamp Participants $Texas\ A\&M\ University$	To assess the tradeoffs between time and money in poverty thresholds for households participating in the Food Stamp Program. For many households, especially households headed by a single person, the time needed for food preparation is an important factor to consider in order to better understand the efficacy of the Food Stamp Program and benefit levels. This project will integrate the Current Population Survey Food Security Supplement with the American Time Use Survey (ATUS) Food and Eating Module.	\$100,000
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Research Projects/Awards	Objective	Estimated Cost
Low-Income Families' Survival Strategies for Managing Shocks to Economic Well-Being University of Michigan	To examine the economic survival strategies of low-income families based on detailed interviews. The study will analyze how, when, and under what circumstances families use the Food Stamp Program; the decisionmaking process around Food Stamp Program application, enrollment, and recertification; and the role that food assistance programs play in families' overall economic coping strategies. Households will be selected from the Michigan Women's Employment Survey.	891,000
The Multiple Contexts of Food Insecurity: Evaluating the Impact on Child Energy Balance University of Utah	To examine the relationships among local food environment, household food insecurity, and elementary school children's energy balance, using data from the Early Childhood Longitudinal Study-Kindergarten Class of 1998-99 (ECLS-K). Additionally, the study will investigate how changes in community characteristics and food insecurity affect changes in child body mass index (BMI).	841,000
Study of the Impact of a Rental Subsidy on Food Security of Welfare-Eligible Families U.S. Department of Housing and Urban Development	To support a research project on the impact of rental assistance on the well-being of welfare-eligible families. The Welfare to Work Voucher Program, established in 1999, provided housing vouchers to help improve the housing location of families eligible for participation in the Temporary Assistance for Needy Families (TANF) program. To evaluate the program, housing vouchers were randomly assigned to an experimental group of TANF-eligible families in six sites across the United States. This study assesses how variation in receipt of a housing voucher (and the resulting change in housing expenditures and housing mobility) affects household food security and food expenditures.	860,000

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To conduct additional statistical analysis for a study that examines the locality, agency,

and individual-level facilitators and barriers to Food Stamp Program participation in Virginia localities.

Followup Analysis on the Study of Locality, Agency, and Individual Characteristics Affecting

Food Stamp Program Participation in Virginia
Virginia Polytechnic Institute and State University

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Research Outreach

RIDGE (formerly Small Grants) Program

To stimulate new and innovative research on food assistance programs and to broaden the participation of social science scholars in food assistance research. Five academic institutions and affiliated research institutes partnered with ERS in 1998 to administer the Small Grants Program. Each institution focuses on a particular facet of food assistance, such as diet and health outcomes, relationships to poverty and well-being, rural issues, and special at-risk population groups. The five institutions and areas of focus are as follows:

\$899,465

- The Irving B. Harris Graduate School of Public Policy Studies, University of Chicago funds proposals on interactions between food assistance and other welfare programs and links between the macroeconomy and food assistance. (\$179,999)
- The Southern Rural Development Center, Mississippi State University supports food assistance research on rural people, families, and communities in the South. The Center also initiated a dialogue among scholars by establishing a Rural South Food Assistance Research Task Force to further articulate research priorities on food-assistance-related issues. (\$180,000)
- The American Indian Studies Program, University of Arizona is working with Native American scholars at tribal colleges and elsewhere to support research that addresses the unique issues and problems of Native Americans with respect to food assistance. (\$179,466)
- The Department of Nutrition, University of California, Davis has awarded small grants for research on the impact of food assistance programs on nutritional risk indicators (anthropometric, biochemical, clinical, and dietary), food purchasing practices, and food insecurity. This program seeks to encourage the study of multiple indicators of nutrition impact and interdisciplinary approaches to integrate epidemiology, economics, or anthropology with nutrition. (\$180,000)
- The Institute for Research on Poverty, University of Wisconsin awards research grants that examine the relationship among the food assistance safety net, poverty, and well-being. (\$180,000)

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Research Projects/Awards	Objective	Estimated Cost
Understanding Food Choices and Dietary Decisions: A Behavioral Approach Carnegie Mellon University	To sponsor a workshop that brings together behavioral economists, psychologists, and decision science experts in a cross-cutting effort to enhance the economic analysis of food choices, dietary behavior, and diet-related health outcomes, with a special focus on decisionmaking among low-income people. Presentations and discussions at the workshop will be summarized in a report so as to provide guidance for further policy-relevant research.	875,000
Enhanced Food Assistance Research Data		
Early Childhood Longitudinal Study-Birth Cohort (ECLS-B) National Center for Education Statistics, U.S. Department of Education	To include the following in the ECLS-B: items on the participation of children and their families in Federal food assistance programs and other public assistance programs, items on child feeding practices, USDA's food security questionnaire module, and measures of children's length/height and weight.	\$170,754
Early Childhood Longitudinal Study-Kindergarten Cohort (ECLS-K) National Center for Education Statistics, U.S. Department of Education	To include the following in the ECLS-K: items on children's participation in the School Breakfast and National School Lunch Programs, items on their families' participation in Federal food assistance programs and other public assistance programs, USDA's food security questionnaire module, and measures of children's length/height and weight.	\$686,753
Current Population Survey (CPS) Food Security Supplement U.S. Census Bureau	To develop annual estimates of the prevalence of food security in the United States and to provide data for analysis of the determinants of and changes in the level of food security.	\$450,000
National Health and Nutrition Examination Survey 1999-2004, Food Security Questions U.S. Department of Health and Human Services	To support inclusion of a battery of food security questions in individual interviews of the National Health and Nutrition Examination Survey.	\$135,000
Committee on National Statistics Funded through the National Science Foundation	To provide core funding for the Committee on National Statistics for such activities as a review of the 2000 Census, poverty estimates for small areas, measuring the effects of social welfare reform, cost-of-living indexes, performance measures for public health programs, the use of statistical formulas in legislation for fund allocation, confidentiality and data access, and other issues.	830,000
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Research Projects/Awards	Objective Es	Estimated Cost
Food Stamp, NSLP, and WIC Underreporting in Household Surveys: Comparing Aggregates and Assessing the Implications University of Chicago	To calculate reporting rates for the three main food assistance programs—Food Stamp Program, National School Lunch Program, and Special Supplemental Nutrition Program for Woman, Infants, and Children (WIC—in commonly used national household surveys to be examined are the Current Population Survey (CPS) Annual Demographic File/Annual Social and Economic Supplement (ADF/ASEC), the Panel Study of Income Dynamics (PSID), the Survey of Income and Program Participation (SIPP), and the Consumer Expenditure (CE) Survey. Both dollar reporting rates and reporting rates for number of participants will be calculated and compared with administrative data.	\$30,000
Amendments to Ongoing Projects		
Food Security, Obesity, and Mental Health in Mothers and Preschool Children Mathematica Policy Research, Inc.	To examine the relationships among household food security, the obesity status of mothers and their preschool children, and the mental health of mothers and the prevalence of children's behavioral issues, using data from the Fragile Families and Child Wellbeing Study. Household food insecurity may cause mothers and young children to experience worse health due to poor nutrition and stress associated with uncertainty about obtaining an adequate supply of food. Additional funding was provided to extend analysis of the relationship between food insecurity and maternal obesity.	\$49,970
Supermarket Characteristics and Operating Costs in Low-Income Areas University of Minnesota	To examine the characteristics and operating costs of supermarkets in low-income areas compared with those in higher income areas, including estimating the empirical relationship between store characteristics and operating costs. Additional funding was provided to extend the analysis on food access for low-income households in the Chicago, IL, area.	\$20,000

Note: Information on extranural FANRP research projects awarded in fiscal 2005 can be found in the report Food Assistance and Nutrition Research Program: Final Report, Fiscal 2005 Activities at www.ers.usda.gov/Briefing/FoodNutritionAssistance/2005FinalReport.pdf.

the report Food Assistance and Nutrition Research Program: Final Report, Fiscal 2004 Activities at www.ers.usda.gov/Briefing/FoodNutritionAssistance/2004FinalReport.pdf. Information on all extramural FANRP research projects awarded before fiscal 2005 can be found in

Chapter 3. FANRP Publications, Fiscal 2006

The following is a list of publications sponsored by the Food Assistance and Nutrition Research Program (either directly or through the Small Grants Program) during fiscal 2006. Two categories of publications are listed: (1) Monographs and Journal Articles, and (2) Working/Discussion Papers. Electronic copies of all ERS publications are available at www.ers.usda. gov/Publications/.

Monographs and Journal Articles

Bartfeld, J., and R. Dunifon. *State-Level Predictors of Food Insecurity and Hunger Among Households With Children*, Contractor and Cooperator Report No. 13, USDA, ERS, October 2005.

Bartfeld, J., and R. Dunifon. "State-Level Predictors of Food Insecurity Among Households with Children," *Journal of Policy Analysis and Management*, Vol. 25, No. 4, Fall 2006.

Baxter, S., A. Smith, M. Nichols, C. Guinn, and J. Hardin. "Children's Dietary Reporting Accuracy Over Multiple 24-Hour Recalls Varies by Body Mass Index Category," *Nutrition Research*, Vol. 26, Issue 6, June 2006.

Bernell, S., B. Weber, and M. Edwards. "Restricted Opportunities, Personal Choices, Ineffective Policies: What Explains Food Insecurity in Oregon," *Journal of Agricultural and Resource Economics*, Vol. 31, No. 2, August 2006.

Blanchard, T., and T. Lyson. Food Assistance Needs of the South's Vulnerable Populations—Food Availability & Food Deserts in the Nonmetropolitan South, No.12, Southern Rural Development Center, April 2006.

Blissard, N., and H. Stewart. *How Low-Income Households Allocate Their Food Budget Relative to the Cost of the Thrifty Food Plan*, Economic Research Report No. 20, USDA, ERS, August 2006.

Bonuck, K., M. Trombley, K. Freeman, and D. McKee. "Randomized, Controlled Trial of a Prenatal and Postnatal Lactation Consultant Intervention on Duration and Intensity of Breastfeeding up to 12 Months," *Pediatrics*, Vol. 116, No. 6, December 2005.

Chen, Z., and S. Yen. "On Bias Correction in the Multivariate Sample-Selection Model," *Applied Economics*, Vol. 37, No. 21, December 2005.

Cullen, K., and D. Thompson. "Texas School Food Policy Changes Related to Middle School a la Carte/ Snack Bar Foods: Potential Savings in Kilocalories," *Journal of the American Dietetic Association*, Vol. 105, No. 12, December 2005.

Cullen, K., K. Weber, K. Watson, I. Zakeri, and K. Ralston. "Exploring Changes on Middle School Lunch Consumption After Local School Food Service Policy Modifications," *Public Health Nutrition*, Vol. 9, No. 6, September 2006.

Datar, A., and R. Sturm. "Childhood Overweight and Elementary School Outcomes," *International Journal of Obesity*, Vol. 30, Issue 9, September 2006.

Devaney, B., M. Kim, A. Carriquiry, and G. Camaño-Garcia. *Assessing the Nutrient Intakes of Vulnerable Subgroups*, Contractor and Cooperator Report No. 11, USDA, ERS, October 2005.

Dennison, B., L. Edmunds, H. Stratton, and R. Pruzek. "Rapid Infant Weight Gain Predicts Childhood Overweight," *Obesity*, Vol. 14, No. 3, March 2006.

Edmunds, L., M. Woelfel, B. Dennison, H. Stratton, R. Pruzek, and R. Abusasha. "Overweight Trends Among Children Enrolled in the New York State Special Supplemental Nutrition Program for Women, Infants, and Children," *Journal of the American Dietetic Association*, Vol. 106, No. 1, January 2006.

Food Assistance and Nutrition Research Program, Fiscal 2006, Competitive Grants and Cooperative Agreements Program: Description and Application Process, USDA, ERS, March 2006.

Food Assistance and Nutrition Research Program, Final Report: Fiscal 2005 Activities, USDA, ERS, January 2006.

Frongillo, E., D. Jyoti, and S. Jones. "Food Stamp Program Participation Is Associated with Better Academic Learning Among School Children," *Journal of Nutrition*, Vol. 136, Issue 4, April 2006.

- Gibson-Davis, C., and E. Foster. "A Cautionary Tale: Using Propensity Scores to Estimate the Impact of Food Stamps on Food Insecurity," *Social Service Review*, Vol. 80, No. 1, March 2006.
- Guthrie, J., E. Stommes, and J. Voichick. "Evaluating Food Stamp Nutrition Education: Issues and Opportunities," *Journal of Nutrition Education and Behavior*, Vol. 38, No. 1, January/February 2006.
- Hanratty, M. "Has the Food Stamp Program Become More Accessible? Impacts of Recent Changes in Reporting Requirements and Asset Eligibility Limits," *Journal of Policy Analysis and Management*, Vol. 25, Issue 3, Summer 2006.
- Heflin, C. "Dynamics of Material Hardship in the Women's Employment Survey," *Social Service Review*, Vol. 80, No. 3, September 2006.
- Heneman, K., A. Block-Joy, S. Zidenberg-Cherr, S. Donohue, L. Garcia, A. Martin, D. Metz, D. Smith, E. West, and F. Steinberg. "A "Contract for Change" Increases Produce Consumption in Low-Income Women: A Pilot Study," *Journal of the American Dietetic Association*, Vol. 105, No. 11, November 2005.
- Herman, D., G. Harrison, and E. Jenks. "Choices Made by Low-Income Women Provided with an Economic Supplement for Fresh Fruit and Vegetable Purchase," *Journal of the American Dietetic Association*, Vol. 106, No. 5, May 2006.
- Hofferth, S., and S. Curtin. "Poverty, Food Programs, and Childhood Obesity," *Journal of Policy Analysis and Management*, Vol. 24, Issue 4, Fall 2005.
- Jolliffe, D. *The Cost of Living and the Geographic Distribution of Poverty*, Economic Research Report No. 26, USDA, ERS, September 2006.
- Jolliffe, D. "Poverty, Prices and Place: How Sensitive is the Spatial Distribution of Poverty to Cost of Living Adjustments?" *Economic Inquiry*, Vol. 44, No. 2, April 2006.
- Jones, S., and E. Frongillo. "The Modifying Effects of Food Stamp Program Participation on the Relation between Food Insecurity and Weight Change in Women," *Journal of Nutrition*, Vol. 136, Issue 4, April 2006.

- Joyce, T., D. Gibson, and S. Colman. "The Changing Association between Prenatal Participation in WIC and Birth Outcomes in New York City," *Journal of Policy Analysis and Management*, Vol. 24, Issue 4, Fall 2005.
- Jyoti, D., E. Frongillo, and S. Jones. "Food Insecurity Affects School Children's Academic Performance, Weight Gain, and Social Skills," *Journal of Nutrition*, Vol. 135, Issue 12, December 2005.
- Kabbani, N., and M. Kmeid, "The Role of Food Assistance in Helping Food Insecure Households Escape Hunger," *Review of Agricultural Economics*, Vol. 27, No. 3, Fall 2005.
- Knoll, L., B. Haughton, and E. Fitzhugh. "Dietary Patterns of Young, Low-Income US Children," *Journal of the American Dietetic Association*, Vol. 105, No. 11, November 2005.
- Knoll, L., B. Haughton, and E. Fitzhugh. "Food Group Adherence Scores Assess Food Patterns Compared to US Department of Agriculture Food Guide," *Journal of the American Dietetic Association*, Vol. 106, No. 8, August 2006.
- Laraia, B., A. Siega-Riz, C. Gundersen, and N. Dole. "Psychosocial Factors and Socioeconomic Indicators are Associated with Household Food Insecurity Among Pregnant Women," *Journal of Nutrition*, Vol. 136, Issue 1, January 2006.
- LeBlanc, M., B. Lin, and D. Smallwood. "Food Assistance: How Strong is the Safety Net?" *Amber Waves*, Vol. 4, Issue 4, September 2006.
- Leibtag, E. "Where You Shop Matters: Store Formats Drive Variation in Retail Food Prices," *Amber Waves*, Volume 3, Number 5, November 2005.
- Lin, B., C. Logan, M. Fox, and D. Smallwood. "Data for Assessing Outcomes of Food Assistance and Nutrition Programs," *Nutrition Today*, Vol. 41, No. 1, January/February 2006.
- Logan, C., W. Rhodes, and J. Sabia. *Food Stamp Program Costs and Error Rates, 1989-2001*, Contractor and Cooperator Report No. 15, USDA, ERS, January 2006.

- McIntosh, A., G. Davis, R. Nayga, Jr., J. Anding, C. Torres, K. Kubena, E. Perusquia, G. Yeley, and W. You. *Parental Time, Role Strain, and Children's Fat Intake and Obesity-Related Outcomes*, Contractor and Cooperator Report No.19, USDA, ERS, June 2006.
- Mills, B., B. Whitacre, and C. Hilmer. *Food Assistance Needs of the South's Vulnerable Populations—Working More but Staying Poor*, No. 11, Southern Rural Development Center, October 2005.
- Murphy, S., J. Foote, L. Wilkens, P. Basiotis, A. Carlson, K. White, and K. Yonemori. "Simple Measures of Dietary Variety Are Associated with Improved Dietary Quality," *Journal of the American Dietetic Association*, Vol. 106, No. 3, March 2006.
- Murimi, M., J. Colvin, K. Liner, and J. Guin. *Methodology To Evaluate the Outcomes of the Team Nutrition Initiative in Schools*, Contractor and Cooperator Report No. 20, June 2006.
- National Research Council. Food Insecurity and Hunger in the United States: An Assessment of the Measure, Committee on National Statistics, Panel to Review the U.S. Department of Agriculture's Measurement of Food Insecurity and Hunger, G. Wunderlich and J. Norwood, eds., Washington, DC: The National Academies Press, 2006.
- Newman, C. "Income Volatility Complicates Food Assistance," *Amber Waves*, Vol. 4, Issue 4, USDA, ERS, September 2006.
- Newman, C. *The Income Volatility See-Saw: Implications for School Lunch*, Economic Research Report No. 23, USDA, ERS, August 2006.
- Newman, C., and K. Ralston. *Profiles of Participants in the National School Lunch Program: Data from Two National Surveys*, Economic Information Bulletin No. 17, USDA, ERS, August 2006.
- Nord. M., M. Andrews, and S. Carlson. *Household Food Security in the United States*, 2004, Economic Research Report No. 11, USDA, ERS, October 2005.
- Nord, M., and E. Leibtag. "Is the 'Cost of Enough Food' Lower in Rural Areas?" *The Review of Regional Studies*, Vol. 35, Issue 3, Winter 2005.
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- Oliveira, V. Food Assistance Landscape: FY 2006 Midyear Report, Economic Information Bulletin 6-3, USDA, ERS, September 2006.
- Oliveira, V. *Food Assistance Landscape, March 2006*, Economic Information Bulletin 6-2, USDA, ERS, February 2006.
- Oliveira, V., and D. Davis. *Recent Trends and Economic Issues in the WIC Infant Formula Rebate Program*, Economic Research Report No. 22, USDA, ERS, August 2006.
- Pettigrew, I., J. Kuchak, and L. Ghelfi. *Administrative Costs in the Child and Adult Care Food Program:*Results of an Exploratory Study of the Reimbursement System for Sponsors of Family Child Care Homes,
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- Ralston, K. Nutrient Adequacy of Children Participating in WIC, Economic Brief No. 8, USDA, ERS, April 2006.
- Ribar, D., M. Edelhoch, and Q. Lui. South Carolina Food Stamp and Well-Being Study: Transitions in Food Stamp Participation and Employment Among Adult-Only Households, Contractor and Cooperator Report No. 18, USDA, ERS, April 2006a.
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- Ribar, D., M. Edelhoch, and Q. Liu. *South Carolina Food Stamp and Well-Being Study: Well-Being Outcomes Among Food Stamp Leavers*, Contractor and Cooperator Report No. 22, USDA, ERS, September 2006.
- Richburg-Hayes, R., and I. Kwakye. *Food Stamp Caseload Dynamics: A Study in Four Big Cities, A Technical Report*, Manpower Demonstration Research Corporation (MDRC), December 2005.
- Rose D., and J. Bordor. "Household Food Insecurity and Overweight Status in Young School Children: Results from the Early Childhood Longitudinal Study," *Pediatrics*, Vol. 117, Issue 2, February 2006.
- Rose, D., J. Bodor, and M. Chilton. "Has the WIC Incentive to Formula-Feed Led to an Increase in Overweight Children?" *Journal of Nutrition*, Vol. 136, Issue 4, April 2006.

Schneider J., M. Fujii, C. Lamp, B. Lonnerdal, K. Dewey, and S. Zidenberg-Cherr. "Anemia, Iron Deficiency, and Iron Deficiency Anemia in 12-36-moold Children from Low-Income Families," *American Journal of Clinical Nutrition*, Vol. 82, No. 6, December 2005.

Skalicky, A., A. Meyers, W. Adams, Z. Yang, J. Cook, and D. Frank. "Child Food Insecurity and Iron Deficiency Anemia in Low-Income Infants and Toddlers in the United States," *Maternal Child Health Journal*, Vol. 10, No. 2, March 2006.

Stommes, E., ed. Food Assistance and Nutrition Research Small Grants Program: Executive Summaries of 2004 Research Grants, Contractor and Cooperator Report No. 12, USDA, ERS, October 2005.

Sturm, R., and A. Datar. "Body Mass Index in Elementary School Children, Metropolitan Area Food Prices and Food Outlet Density," *Public Health*, Vol. 119, Issue 12, December 2005.

Sturm, R., and A. Datar. *Metropolitan Area Food Prices and Children's Weight Gain*, Contractor and Cooperator Report No. 14, USDA, ERS, December 2005.

Ver Ploeg, M., L. Mancino, and B. Lin. "Food Stamps and Obesity: Ironic Twist or Complex Puzzle?" *Amber Waves*, Vol. 4, Issue 1, USDA, ERS, February 2006.

Wang M., and L. Dixon. "Socioeconomic Influences on Bone Health in Postmenopausal Women: Findings from NHANES III, 1988-1994," *Osteoporosis International*, Vol. 17, No. 1, January 2006.

Whitaker, R., and S. Orzol. "Obesity Among US Urban Preschool Children: Relationships to Race, Ethnicity, and Socioeconomic Status," *The Archives of Pediatrics & Adolescent Medicine*, Vol. 160, No. 6, June 2006.

Whitaker, R., S. Phillips, and S. Orzol. "Food Insecurity and the Risks of Depression and Anxiety in Mothers and Behavior Problems in their Preschool-Aged Children," *Pediatrics*, Vol. 118, No. 3, September 2006.

Wilde, P., and M. Nord. "The Effect of Food Stamps on Food Security: A Panel Data Approach," *Review of Agricultural Economics*, Vol. 27, No. 3, Fall 2005.

World Health Organization, Department of Nutrition for Health and Development. *WHO Child Growth Standards: Methods and Development*, WHO Press, Geneva, Switzerland, 2006

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Bartfeld, J., and L. Wang. *Local-level Predictors of Household Food Insecurity*, Institute for Research on Poverty Discussion Paper No. 1317-06, August 2006.

Danielson, C., and J. Klerman. Why Did the Food Stamp Caseload Decline (and Rise)? Effects of Policies and the Economy, Institute for Research on Poverty Discussion Paper 1316-06, March 2006.

Hausman, J., and E. Leibtag. Consumer Benefits from Increased Competition in Shopping Outlets: Measuring the Effect of Wal-Mart, NBER Working Paper 11809, National Bureau of Economic Research, December 2005.

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Chapter 4. FANRP Publications, Fiscal 1998-2005

The following is a list of publications sponsored by the Food Assistance and Nutrition Research Program (either directly or through the Small Grants Program) from fiscal 1998, its first year of mandated responsibility, through fiscal 2005. Two categories of publications are listed: (1) Monographs and Journal Articles, and (2) Working/Discussion Papers. Electronic copies of all ERS publications are available at www.ers.usda. gov/Publications/.

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Appendix A: Institutions, Universities, and Government Agencies Awarded FANRP Projects, Fiscal 1998-2006

Institutions

Abt Associates Inc.

ACNielsen

ATMS

Boston Medical Center Brookings Institution

Cancer Research Center of Hawaii

Channing Laboratory, Brigham and Woman's Hospital

Child Trends

Children's Hospital Medical Center (Cincinnati)

Committee on National Statistics

Health Systems Research Information Resources, Inc.

IQ Solutions

Life Sciences Research Organization

Lewin Group Macro International

Manpower Demonstration Research Corporation

Mary Imogene Bassett Hospital Mathematica Policy Research, Inc. National Academy of Sciences

National Bureau of Economic Research

National Science Foundation

ORC Macro, Inc. RAND Corporation

Research Triangle Institute, Inc. Resource Network International Rockefeller Institute of Government Society for Nutrition Education

Sphere Institute

United Nations University Centre

Urban Institute

World Health Organization

Universities

Albert Einstein College of Medicine

Auburn University Baylor University Boston University

Carnegie Mellon University

Cornell University

George Washington University

Harvard University Iowa State University Johns Hopkins University Northwestern University Louisiana Tech University

Medical College of Georgia Research Institute, Inc.

Middle Tennessee State University

North Carolina State University

Nova Scotia Agricultural College

Oregon State University Mississippi State University

South Dakota State University

Syracuse University
Texas A&M University

Tufts University
Tulane University
University of Arizona
University of Baltimore

University of California-Berkeley University of California, Davis

University of Chicago University of Georgia University of Houston University of Illinois

University of Kansas Medical Center

University of Kentucky
University of Massachusetts
University of Michigan
University of Minnesota
University of Missouri
University of Notre Dame
University of North Carolina

University of Nevada
University of New Mexico
University of Oregon

University of Southern Mississippi

University of Tennessee University of Utah

University of West Virginia University of Wisconsin

Virginia Polytechnic Institute and State University

Government Agencies

Agricultural Research Service, USDA

Center for Nutrition Policy and Promotion, USDA

Food and Drug Administration Food and Nutrition Service, USDA National Agricultural Library, USDA National Center for Education Statistics,

U.S. Department of Education South Carolina Social Services

U.S. Census Bureau

U.S. Department of Health and Human Services

U.S. Department of Housing and Urban Development

USDA Graduate School

Virginia Department of Social Services

Appendix B: Peer Reviewers for the Competitive Grant and Cooperative Research Program, Fiscal 2006

Reviewer Institution

Dawn Aldridge USDA, Food and Nutrition Service

Mary Arends-Kuenning University of Illinois-Urbana, Department of Agricultural

and Consumer Economics

Neil Bania University of Oregon, Department of Planning, Public Policy and Management

Erik Beecroft Virginia Department of Social Services

Jamie Benedict University of Nevada, Department of Nutrition

Duncan Chembezi Alabama A&M University, Department of Agribusiness Wen Chern Ohio State University, Department of Agricultural,

Environmental, and Developmental Economics

Scott Cody Mathematica Policy Research, Inc.

Nancy Cole Abt Associates Inc. Ashlesha Datar RAND Corporation

Jenny Genser USDA, Food and Nutrition Service

Diane Gibson

Baruch College/CUNY, School of Public Affairs

University of Wisconsin, Department of Agricultural

and Applied Economics

Craig Gundersen Iowa State University, Department of Human Development

and Family Studies

Daniel Hamermesh University of Texas-Austin, Department of Economics

Chris Hamilton Independent Consultant

Shida Henneberry Oklahoma State University, Department of Agricultural Economics
Pat Hipple USDA, Cooperative State Research, Education, and Extension Service

Chung Huang University of Georgia, Department of Agricultural

and Applied Economics

Alison Jacknowitz American University, School of Public Affairs Helen Jensen Iowa State University, Department of Economics

Jean Kimmel Western Michigan University, Department of Economics

Jacob Klerman Rand Corporation

Richard Larson Maryland Department of Human Resources Enrico Marcelli Harvard University, School of Public Health

Kelly Mikelson Northwestern University

Zoë Neuberger Center on Budget and Policy Priorities

James Ohls Mathematica Policy Research, Inc.

Lynn Parker Food Research and Action Center

Colleen Pawling Center on Budget and Policy Priorities

Elizabeth Racine University of North Carolina at Charlotte,

Department of Health Behavior and Administration

Caroline Ratcliffe The Urban Institute

Kristina Shelley U.S. Department of Labor, Bureau of Labor Statistics
Dawn Thilmany Colorado State University, Department of Agricultural

and Resource Economics

Richard Troiano U.S. Department of Health and Human Services,

National Institutes of Health

Stephen Vosti University of California, Davis; Department of Agricultural

and Resource Economics

Diane Whitmore Schanzenbach University of Chicago, Harris School of Policy Studies

Parke Wilde Tufts University, Friedman School of Nutrition Science and Policy Cathleen Zick University of Utah, Department of Family and Consumer Studies

Appendix C: Fiscal 2006 RIDGE Awards

The Irving B. Harris School of Public Policy Studies, University of Chicago

Estimating the Impact of Food Insecurity on Health Outcomes in the Presence of Food Insecurity Reporting Errors

Craig Gundersen, Iowa State University

Food Stamps Receipt and Food Insecurity After Welfare Reform: Links to Health and Behavior Among Low-Income Immigrant and Native Children

Ariel Kalil, University of Chicago

Improving Our Information on Who Receives Food Stamps and the Program's Effects on Income and Consumption

James Sullivan, Notre Dame University

Food Stamp Program and Women, Infants, and Children: Effect on Children's Health and Nutrition

Kathleen Ziol-Guest, Harvard University

Institute for Research on Poverty, University of Wisconsin

The Effects of the Food Stamp Program on Weight Gained by Expectant Mothers Charles L. Baum, Middle Tennessee State University

Food Stamps, Quality of Food Consumption, and Obesity Neeraj Kaushal, Columbia University

Measuring the Impacts of Stigma and Time Cost in the Food Stamp Enrollment Decision Diane Whitmore Schanzenbach, University of Chicago

The Effects of School Feeding Programs and Maternal Employment on Children's Meal and Activity Patterns

Geetha M. Waehrer, Pacific Institute for Research and Evaluation

The American Indian Studies Program, The University of Arizona

The Cost and Availability of Healthier Foods for the Pascua Yaqui Pueblo and the Old Nogales Highway Colonia: Community Baselines and Benefits of Mobile Markets Dr. George Frisvold, The University of Arizona

Expansion of a Small-Scale Integrated Aquamethaponics Food Production System and Training Program for Native Hawaiian Working Families in Hawaii

Aecio Silva, The University of Arizona, and Robert Howerton, University of Hawaii

Understanding Traditional Foods Security of Hopi Single-Parent Headed Households: Outreach to the Hopi Community and its Organizations"

Matt Livingston, Hopi Cooperative Extension Office, and Cornelia Butler Flora, Iowa State University

Measuring Food Purchases, Community Needs, and Tribal Policy for Healthy Foods in Local Grocery Stores on and Near a Northern Plains Indian Reservation Blakely Brown, University of Montana

Southern Rural Development Center, Mississippi State University

Exploring Health Literacy as a Factor Contributing to Adoption of the 2005 Dietary Guidelines Among Adults in the Mississippi Delta
Jamie Zoellner and Wendy Bounds, University of Southern Mississippi

Examining Relations Among Obesity, Food Insecurity, Stress, and Emotional Eating Among Low-Income African-American Women

Carol Connell and Kristi Lofton, University of Southern Mississippi

Food Security and Feeding Strategies
Barbara Laraia, University of North Carolina at Chapel Hill

Impact of Local Food Prices on the Relationship Between Food Stamp Program Participation and Bodyweight Status of Adults in the South
Qi (Harry) Zhang, Old Dominion University,
and Zhu (Adam) Chen, University of Chicago

The Department of Nutrition at the University of California, Davis

A Longitudinal Study of Food Insecurity/Insufficiency on Overweight in Preschool Children Elizabeth Metallinos-Katsaras, Simmons College

The Direct Economic Effects of a Policy to Provide Government-Subsidized Price Discounts for the Purchase of Fruits and Vegetables by Food Stamp Recipients Karen M. Jetter, University of California, Davis

Dietary Behaviors That Promote Overconsumption: Are Food Insecurity and Food Assistance Program Participation Associated With Energy Imbalance?

Claire Zizza, Auburn University