

The Impact of Demographic Changes on Funding for Community Development Programs across the United States

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Background

The decennial census is an important national enumeration process that impacts livelihoods of households as well as community and regional welfare. Conducted every 10 years since 1790, it determines the number of people living in the United States, as mandated by Article 1, section 2 of the U.S. Constitution and Title 13 of the U.S. code (U.S. Census Bureau, 2019a). Along with other census-based data collection programs, it is used by numerous government programs that support education, employment, health, housing, energy, transportation, telecommunication, financial, and environmental activities. Decennial census data are used for accurate

1. political representation in the U.S. Congress: The decennial census determines the apportionment of 435 Congressional seats in the U.S. House of Representatives across 50 states based on each state's population share of the national population.
2. redistricting: To ensure fair and equitable representation, decennial census data are used to redraw 435 Congressional districts (O'Hare, 2019), districts represented by 7,383 state legislators (National Conference of State Legislators, 2019), and 13,598 public school districts (Snyder, de Brey and Dillow, 2019).
3. community development planning: Current and reliable demographic data trends from the census are crucial to developing relevant community development and outreach efforts (Curtis et al., 2012), especially with respect to Cooperative Extension Service (CES) programs that use census data to assess and assist communities (Zimmerman and Kahl, 2018).
4. federal fund distribution: Decennial census data form the basis for distributing more than \$1.5 trillion in federal funding (FY 2017) to state and local government, including programs

administered by land-grant universities, especially through CES.

This study reviews the key datasets and distribution of community development federal funds that rely on census data. We also discuss the impact of demographic changes and accuracy on funding for community development programs across the United States, including a case study presentation of how census-based poverty estimates influence the distribution of funding for the Expanded Food and Nutrition Education Program (EFNEP) program.

Problems and Potential Economic Losses Due to Census Miscounts and Undercounts

Decennial census miscounts and undercounts will result in flawed data estimates and cause a social equity problem (O'Hare, 2019) that has a profound impact on local, state, and national economies. A recent study by Elliott et al. (2019) indicates that the 2020 Census could potentially undercount the U.S. population by 0.27%–1.22%, which translates to between 900,000 and 4 million people. Miscounts may disproportionately affect some groups more than others. While white, non-Hispanic people have only a 0.03% risk of being undercounted, African American and Hispanic populations could be undercounted by 3.68% and 3.57%, respectively. Other hard-to-count populations are rural populations, renters, ethnic and racial minorities, and immigrants (Kane-Willis et al., 2019). Children under the age of 5 have a high risk of being undercounted by up to 6.31% (Elliott et al., 2019; Potyondy, 2017). While these percentages seem relatively small, such miscounts and undercounts can substantially impact a community's future for a decade or longer.

Funds not received by a county due to an undercount are given to other states and regions. For example, in FY 2017, Title I programs, which provide financial assistance to local education agencies with relatively high percentages of children from low-income families,

lost an estimated \$1,700 per missed person (Reamer, 2019b). In FY 2015, the median loss per missed person on funds received from the U.S. Department of Health and Human Service was estimated to be \$1,091. Many of the 37 states forfeited substantial funds, with losses ranging from \$533 to \$2,309 per missed person (Reamer, 2018b).

Accuracy of Census Data

The allocation of federal funds is highly sensitive to the accuracy of the decennial census. Inaccuracies in enumeration can occur due to a number of reasons, the foremost among which include (Chapin, 2018)

1. low participation due to language barriers, low literacy, or educational attainment.
2. Many households are difficult to locate, not in the census sampling frame, or otherwise inaccessible. Many people move due to unexpected events or natural disasters.
3. people that are inaccessible because they are highly mobile, are experiencing homelessness, or live in communities with physical barriers, such as gated communities, that don't provide ready access to enumerators.
4. people who are unwilling to participate in the census due to lack of trust in government programs or low levels of civic engagement.

Solutions

Increased citizen participation to an online census survey, available in the upcoming census, may result in better estimates. Factoring in risk scenarios on miscounts, undercounts, and inaccuracies based on historical data (Elliott et al., 2019) at planning, developing, and implementation phases of community development programs will reduce potential losses to vulnerable communities.

Which Census Datasets Are Relevant for Federal Funds?

Since the decennial census is only conducted once every decade, the U.S. Congress approved development of up-to-date and detailed datasets derived from the decennial census called census-derived datasets. There are 52 census-derived datasets that assist with geographic allocation of federal funds. Figure 1 reports the 8 foundational and 11 general datasets that comprise the decennial census. (An additional 33 program-specific datasets are further extensions of these 19 datasets, as explained by Reamer, 2018a.)

Based on decennial population density, the Census Bureau provides an urban–rural classification of all census tracts (Figure 1). Using the *Urban-Rural Classification*, *American Community Survey* and *Population Estimates*, the nation's *Core-Based Statistical Areas* are delineated as metropolitan and micropolitan areas (Reamer, 2018a).

Five of the six geographical classification datasets (*Rural–Urban Commuting Areas*, *Rural–Urban Continuum Codes*, *Urban-Influence Codes*, *Frontier and Remote Areas*, *Urban–Rural Classification*) are associated with differentiating rural areas on the level of rurality or the adjacency to a city (Figure 1). Small Labor Market Areas make up the balance of the United States that is grouped in to one or more counties that are not major labor market areas (metropolitan and micropolitan areas) (Reamer, 2018a).

Population Estimates and Housing Estimates are updated annually with population and housing numbers based on vital statistics and tax records (Figure 1). The demographic information that is not collected in the decennial census is collected through the four survey datasets related to households: *American Community Survey*, *Consumer Expenditure Survey*, *Current Population Survey*, and *American Housing Survey* (Reamer, 2018a).

The *Consumer Price Index*, *Personal Income*, *Local Area Unemployment Statistics*, *Per Capita Income*, and *Poverty Thresholds* serve as the five standard economic indicators related to prices, income, employment, and poverty (Figure 1).

Census Datasets Relevant for Federal Fund Distribution

Several census datasets are relevant for determining eligibility for and equitable distribution of federal funds (Reamer, 2018a):

1. Decennial population statistics (population count, age, sex, race, and ethnicity) aid in determining the distribution of funds based on population share and funding per capita and provide control totals for household surveys.
2. Economic variables—such as income, poverty and labor force status—collected through household surveys (*American Consumer Survey*, *Consumer Expenditure Survey*, *Current Population Survey*, and *American Housing Survey*) are used by a number of federal programs to adjust for inflation on distributions and eligibility levels.
3. The *Urban–Rural Classification* and the nation's *Core-Based Statistical Areas* that are delineated as metropolitan and micropolitan areas serve as the basis for regional economic analysis and planning. These geographical classifications are highly sensitive to census accuracy.

The primary uses of the decennial census are to allocate political power through seat apportionment (Burnett, 2011); distribute federal funds; assist in civil rights enforcement, business, and community planning efforts; provide population estimates and projections; provide

Figure 1. Key U.S. Census Bureau Datasets Associated with Federal Funding

Decennial Census											
-----Foundation-----											
<i>Geographic Classification (2)</i>	<i>Multivariate Datasets (6)</i>										
Urban-Rural Classification (Census)	<table border="0" style="width: 100%;"> <tr> <th style="text-align: center;">Multivariate Datasets</th> <th style="text-align: center;">Household Surveys</th> </tr> <tr> <td style="text-align: center;">Population Estimates (Census)</td> <td style="text-align: center;">American Community Survey (Census)</td> </tr> <tr> <td style="text-align: center;">Housing Estimates (Census)</td> <td style="text-align: center;">Current Population Survey (Census & BLS)</td> </tr> <tr> <td></td> <td style="text-align: center;">Consumer Expenditure Survey (Census & BLS)</td> </tr> <tr> <td></td> <td style="text-align: center;">American Housing Survey (Census for HUD)</td> </tr> </table>	Multivariate Datasets	Household Surveys	Population Estimates (Census)	American Community Survey (Census)	Housing Estimates (Census)	Current Population Survey (Census & BLS)		Consumer Expenditure Survey (Census & BLS)		American Housing Survey (Census for HUD)
Multivariate Datasets		Household Surveys									
Population Estimates (Census)	American Community Survey (Census)										
Housing Estimates (Census)	Current Population Survey (Census & BLS)										
	Consumer Expenditure Survey (Census & BLS)										
	American Housing Survey (Census for HUD)										
Core-based Statistical Areas (OMB)											
-----General Extensions-----											
<i>Geographic Classifications (6)</i>	<i>Standard Economic Indicators (5)</i>										
Rural-Urban Commuting Areas (ERS)	Consumer Price Index (BLS)										
Frontier and Remote Areas (ERS)	Personal Income (BEA)										
Rural-Urban Continuum Codes (ERS)	Per Capita Income (BEA)										
Urban Influence Codes (ERS)	Local Area Unemployment Statistics (BLS)										
NCHS Urban-Rural Classification (NCHS)	Poverty Thresholds (Census)										
Small Labor Market Areas (BLS)											

Agencies responsible for Census-Derived Datasets:

OMB - Office of Management and Budget, White House

BLS - Bureau of Labor Statistics, Department of Labor

HUD - Department of Housing and Urban Development

ERS - Economic Research Service, Department of Agriculture

NCHS - National Center for Health Statistics, Department of Health and Human Services

BEA - Bureau of Economic Analysis, Department of Commerce

Census - Census Bureau, Department of Commerce

Source: (Reamer, 2018)

weights for sample surveys; and, in general, support economic and social research activities (O’Hare, 2019).

What Types of Federal Financial Assistance Are Available for Communities?

Federal financial assistance based on census-derived datasets supports domestic programs listed in the Catalog of Federal Domestic Assistance (CFDA):

1. Direct loans are loans that are to be repaid in a specified amount of time, extended by the federal government to an individual recipient or a business (Reamer, 2018a). For example, the U.S. Department of Agriculture (USDA) provides direct loans through the Very Low to Moderate Income Housing Loans Program (CFDA 10.410).

2. Direct payments are federal dollars provided directly to individuals or private institutions with the aim of encouraging or subsidizing certain programs and activities (Reamer, 2018a). For example, the USDA’s Rural Rental Assistance Payments (CFDA 10.427) are made to owners on behalf of low-income tenants who are unable to pay full rent.
3. Grants are federal funds committed to use for specific public interest purposes (Reamer, 2018a). The federal government provides grants as
 - a. formula grants: Funds allocated to states or local governments based on specific formulas that are defined by laws or specifically by the granting agency, for any ongoing programs and activities. For example, USDA

Cooperative Extension Service funds (CFDA 10.500) are allocated to states based on the proportion of the rural and farm population.

- b. project grants: Funds distributed (by a competitive process or formula) for a specific project or an intended purpose. For example, the USDA's Water and Waste Disposal System for Rural Communities (CFDA 10.760) provides funds to drinking water and wastewater facilities serving rural and economically distressed communities.
 - c. cooperative agreements: Legal agreements between federal government and a non-federal entity to carry out a program or activity with a public purpose. Cooperative agreements are similar to project grants except that the federal government directly performs, provides guidance, and implements the program. For example, the USDA's Rural Business Opportunity Grant Program (CFDA 10.773) provides technical assistance, training, and activities supporting business development and expansion in rural areas.
4. Loan guarantee is an agreement based on a contract between the federal government and a borrower that serves as a security to a debt

obligation in case of a loan default (Reamer, 2018a). For example, the USDA's Rural Electrification Loans and Loan Guarantees (CFDA 10.850) for distribution, generation, and transmission facilities to non-profit, cooperatives, public bodies, and utilities in rural areas.

Federal financial assistance programs are dependent on the U.S. Census Bureau data for (Hotchkiss and Phelan, 2017)

1. eligibility determination: Data from the census are used to select program recipients based on population served and characteristics that fit with the federal program, recipient community, or organization.
2. fund allocation: Data from the census are used to determine the amount of funds that can be awarded to eligible program recipients.
3. program monitoring and assessment: Data from the census are used to assess program planning, development, and implementation. This evaluation will help in improving future programs and leveraging funds that benefit communities.

Table 1 presents the USDA's community development programs, types of federal assistance, and the role of census-derived datasets.

Table 1. Community Development Program by Type of Assistance and Role of Census-Derived Datasets in Funding

CFDA	USDA Program	Type of Federal Assistance	Role of Census-Derived Datasets
10.551	Supplemental Nutrition Assistance Program	Direct payment	Eligibility
10.410	Very low to moderate income housing loans	Direct loans and loan guarantees	Eligibility and allocation formulas
10.555	National School Lunch Program	Grants	Eligibility
10.557	Women, Infants, and Children Program	Grants	Eligibility and allocation formulas
10.553	School Breakfast Program	Grants	Eligibility and selection preference
10.850	Rural Electrification Loans and Loan Guarantees	Direct loans and loan guarantees	Eligibility and selection preference
10.558	Child and Adult Care Food Program	Grants	Eligibility
10.766	Community Facilities Loans/Grants	Direct loans and loan guarantees	Eligibility and selection preference
10.760	Water and Waste Disposal Systems for Rural Communities	Grants, direct loans, and loan guarantees	Eligibility, allocation formula and interest rates
10.427	Rural Rental Assistance Payments	Direct payments	Eligibility and selection preference
10.768	Business and Industry Loans	Loan guarantees	Eligibility and selection preference
10.500	Cooperative Extension Service	Grants	Allocation formula

Trends in Federal Funding for Community Development Programs

In 1999, the General Accounting Office reported that 22 federal programs used decennial census data to allocate \$167 billion (U.S. GAO, 1999). Blumerman and Vidal (2009) indicated that 140 federal programs used census data to distribute approximately \$446.4 billion in FY 2007. By 2008, 215 federal programs reportedly used census data to allocate \$446.7 billion in federal funds (Carpenter and Reamer, 2010). In 2016, 325 federal programs distributed \$883 billion based on Census Bureau data (Reamer, 2019a). In 2017, census-derived data was used to distribute \$1.5 trillion in federal funds, which represents 7.8% of the national gross domestic product (Reamer, 2019c). With the upcoming 2020 Census, newer and updated census data are essential for federal fund distribution.

Over the years, as the U.S. population grew to 309 million (2010), the federal funds allocated to states, communities, and households have steadily grown in nominal terms from \$200 billion (FY 2003) to \$1.5 trillion (FY 2017).

How Do Population Changes Affect Funding for Community Development?

The ability to anticipate and recognize change within a community is vital for the future of community

development programs. Population estimates indicate areas of growth or decline, while demographic data provide information in the areas of basic demographic (age, gender, race); social (education, marital status, household numbers); economic (income, poverty, employment); and housing (tenure, type, value) issues. For example, the *Current Population Survey*, a collaborative effort between the U.S. Bureau of Labor Statistics and the U.S. Census Bureau, provides information on labor force statistics. Such detailed data are vital to understanding and, hence, tailoring education programs for a community, for CES, and for other community-based programs. Without demographic information, creating culturally inclusive programming based on community participation and feedback would be impossible.

For specific information relating to families, the Census Bureau's *American Community Survey (ACS)* can be valuable. This information provides specifics on family types and characteristics, which are especially beneficial when working with family and consumer sciences or community youth. The ACS also provides information on educational attainment (levels of education). When working with agriculture clientele, which is a major portion of CES efforts, the USDA *Census of Agriculture* is conducted every five years and provides data pertaining to farming families (race, age, gender) as well as hired migrant labor.

Figure 2. FY 2016 Fund Allocation to USDA Community

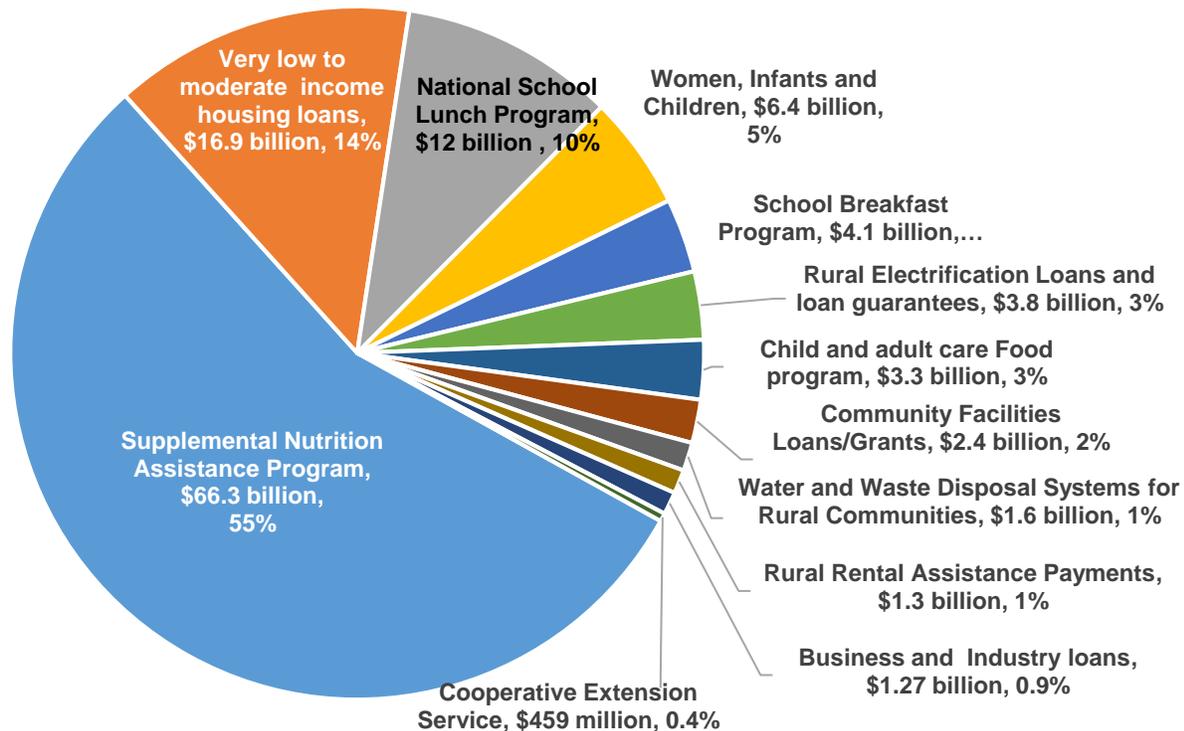


Figure 3. FY 2016 USDA CES Fund Allocation by States (in \$millions)

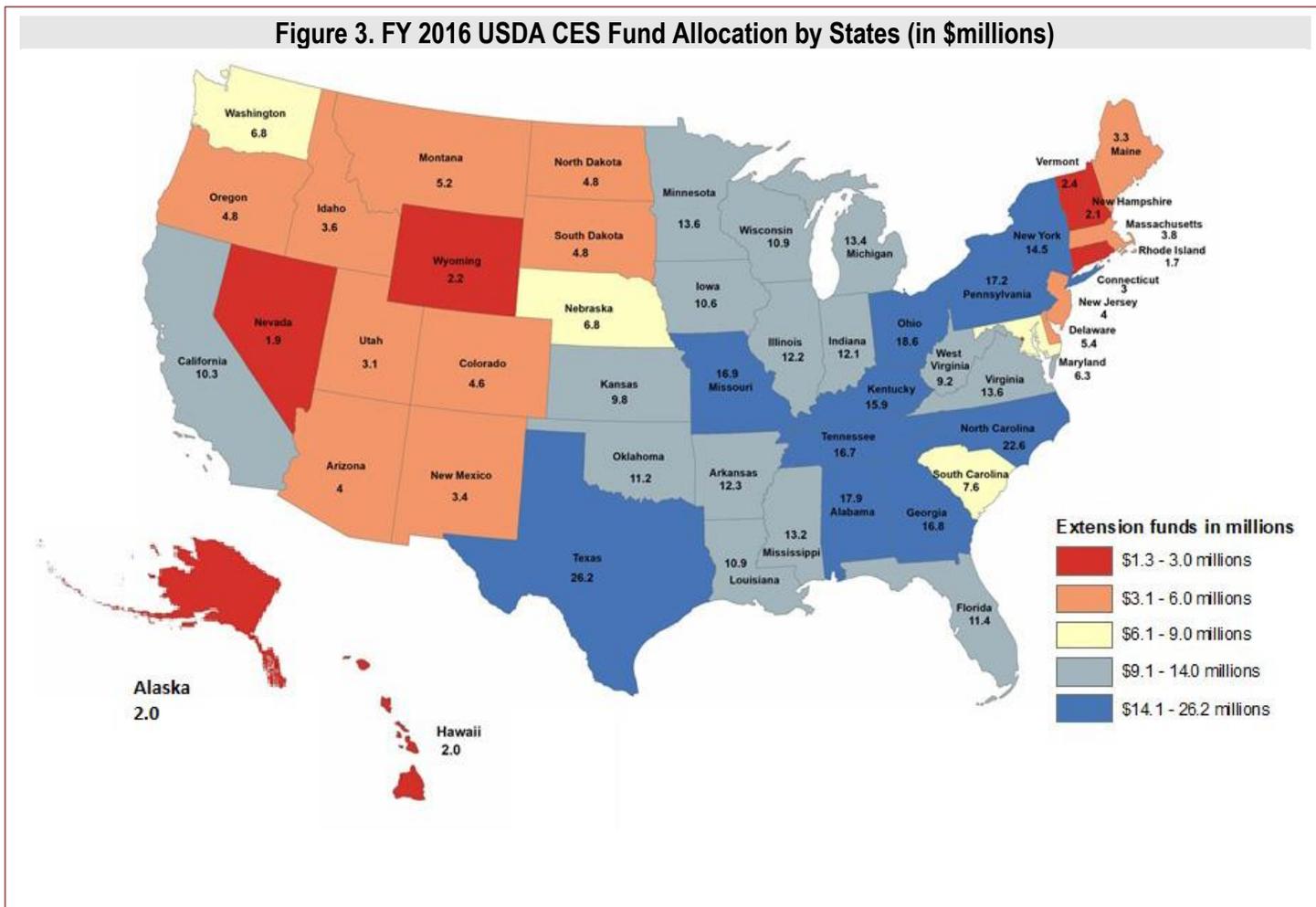


Figure 2 presents the distribution of \$120 billion in federal funds to community development programs based on U.S. Census data in FY 2016. While a majority of these funds (77%) were allocated to food and nutrition programs, 15.2% of the funds supported housing programs, 7.4% helped build infrastructure and support businesses, and 0.4% were provided to CES programs.

Between food and nutrition programs, \$66.3 billion (55% of funds) was allocated to the Supplemental Nutrition Assistance Program, followed by \$12 billion (10%) to the National School Lunch Program. About \$6.4 billion (5%) of the funds were allocated to the Women, Infants, and Children Program, followed by \$4.1 billion (4.4%) to the School Breakfast Program and \$3.3 billion (3%) to the Child and Adult Care Food Program (Reamer, 2019a).

Among programs related to housing, \$16.9 billion (14% of funds) were allocated to very low to moderate income housing loans and \$1.3 billion (1%) to rural rental assistance programs (Reamer, 2019a).

Amid programs supporting infrastructure and businesses, \$3.8 billion (3% of funds) were allocated to rural electrification programs, \$2.4 billion (2%) to community facilities programs, \$1.6 billion (1%) to water and wastewater disposal systems for rural communities,

and \$1.27 billion (0.9%) to provide loans to business and industry (Reamer, 2019a).

CES programs were provided \$459 million (0.4% of funds) to support educational programs in communities across the United States. (Reamer, 2019a). Inaccurate census data leads to poor community-level planning decisions and poor recommendations for community development strategies.

Cooperative Extension Funding (CES)

The CES, with the help of the National Institute of Food and Agriculture (NIFA), is tasked with conveying the knowledge gained at the research level to the public and putting it into practice. Operated through the land-grant university system, the CES works as a federal partner to state and local governments to address national priorities through the allocation of grants and program oversight. Research is conducted at the university level by expert faculty members; county-based educators relay that information to the public to solve a variety of local problems, concerns, and hardships. In return, the agents collect input about current issues and transfer that information to the university, enabling research faculty to create priorities for future studies. As agricultural and environmental challenges are increasing

and public needs are growing (Hoag, 2005), CES is a key part of the solution.

capita), New Jersey (\$0.46 per capita) and Florida (\$0.55 per capita) received the least.

Table 2. Regression Results of Poverty Estimates on EFNEP Funding Levels

Multiple R	0.918			
R Square	0.842			
Adjusted R Square	0.836			
Standard Error	391,748.50			
<i>Variable</i>	<i>Beta</i>	<i>Standard Error</i>	<i>T-Value</i>	<i>Probability</i>
Intercept	294,593.50	77,500.40	3.80	0.00040
Poverty Rate	0.5578	0.03959	14.09	0.00000
1890 Dummy	559,896.80	116,780.30	4.79	0.00002

CES funding was established by the Smith-Lever Act (1914) to provide educational programs that use scientific knowledge to address the challenges of agriculture and rural communities (Coppess et al., 2018). About two-thirds of the federal funding is formula-based for CES activities. The first 20% of the Smith-Lever funds are divided equally among all the states. An additional 40% is allocated to states based on the proportion of rural population, as determined by the decennial census, and the remaining 40% is allocated to states based on the proportion of the farm population, as determined by the decennial census. Historically, federal funds constituted one-third of the funding for CES, with another third supported by state funding and the final third from local funding (Franz and Townson, 2008). Federal statute requires every federal dollar to be matched by nonfederal sources. In the recent years, the cost-share has ranged from 10%–70% from federal, state, and local sources depending on funding availability (Franz and Townson, 2008).

The CES was allocated \$458.8 million in FY 2016 (Reamer, 2019a). Figure 3 illustrates the geographical distribution of these funds. Texas (\$26.2 million), North Carolina (\$22.6 million), and Ohio (\$18.6 million) received the most funding. Many states in the northeast and southern United States received funds greater than \$14 million.

The District of Columbia (\$1.3 million), Rhode Island (\$1.7 million), and Hawaii (\$1.8 million) received less than \$2 million in support of CES programs (Reamer, 2019a). Many states in the western United States received more than \$3 million for such programs, with the exception of Nevada, Wyoming, Alaska, and Hawaii.

In the FY 2016, each state received an average of \$1.44 in CES funds per capita. North Dakota (\$6.40 per capita), Delaware (\$5.69 per capita), and South Dakota (\$5.54) received the most, while California (\$0.26 per

Case Study: EFNEP Program

First initiated in 1968, the Expanded Food and Nutrition Education Program (EFNEP) is a formula-funded program administered by NIFA. Land-grant universities administer the program in all 50 U.S. states, the District of Columbia, and six U.S. territories. EFNEP personnel focus on diet quality and physical activity, food resource management, food safety, and food security, encouraging lower-income individuals to make better choices.

EFNEP serves as an example of how census data can influence the fund distribution in land-grant-based CES programs and, by extension, other types of federal funding that go to states and counties. EFNEP state allocations are driven by a complicated formula based on poverty-level-adjusted FY 1981 allocation for 1862 land-grant universities, poverty-level-adjusted FY 2007 allocations for 1890 land-grant universities, \$100,000 for each 1862 and 1890 land grant, and an allocation of remaining funds based on the relative size of the population living at or below the 125% poverty level based on the most recent decennial census (in part on adjustment to funding levels received in 2007) (U.S. Department of Agriculture, 2018).

We used FY 2019 EFNEP funding by state and 2017 estimates of the number of individuals below the 125% poverty level at the state level (U.S. Census, 2019b) in a regression analysis to examine the influence of census-based poverty estimates on EFNEP funding levels. The analysis shows the impact of undercounting the poor (as defined here) in funding levels for this program and, hence, serves as an example of how census counts can influence fund distribution. Because of the increased funding for states with an 1890 land grant, we also included an 1890 school dummy variable in the analysis. Total EFNEP funding for FY 2019 is \$67.4 million, with averaging funding per state (including the District of Columbia and Puerto Rico) at \$1.3 million; our analysis accounted for 61.9 million poor individuals, with a per state average of 1,189,616 individuals. Based on our

analysis, one additional poor person leads to an increase in EFNEP funding of \$0.56 (Table 2). On average, a 10% increase in the estimated number of poor at the state level would result in an increase of \$66,349 in EFNEP funding. Hence, census estimates regarding the number of poor people definitely matter in determining the distribution of funding for this program.

Summary and Conclusions

This study presented the federal census datasets that are key to funding community development programs across United States and the mechanism through which funds are allocated. Spatial and temporal trends of federal funding were presented as a result of demographic changes.

The decennial census is a single opportunity to impact federal programs every 10 years. The U.S. Census

Bureau has the responsibility to accurately estimate the U.S. population, an estimate that will in turn impact households, communities, states, and the nation. Undercounts or miscounts can significantly impact vulnerable population across communities, as demonstrated in the case study. Factoring in undercounts or miscounts in community planning may alleviate economic losses.

CES programs across the nation can play a crucial role through education and outreach programs about the importance of participation in the decennial census and aid in the accurate count of people and households. An accurate census and increased citizen participation will ensure fair and equitable distribution of funds to support food and nutrition programs, rural housing, rural infrastructure, and CES programs across the United States.

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