

	A Quick Reference Guide to Rural	Data Sources	
Subject	Best Source	Compiled By	See Page
GENERAL POPULATION Population count Population age structure Educational attainment	Current Population Reports, Series P-26 State Reports Census of Population	Census Bureau with States States Census Bureau	27 30 30
LABOR FORCE Labor force participation rate Unemployment rate Occupational make-up of the labor force	Census of Population Unemployment in States and Local Areas Census of Population	Census Bureau Bureau of Labor Statistics with states Census Bureau	34 34 34
INCOME Poverty rate Per capita personal income	Census of Population Local Area Personal Income	Census Bureau Bureau of Economic Analysis	36 38
HOUSING Number and size of housing units Building permits issued	Census of Housing Local and state reports	Census Bureau Local and state agencies	41 42
HEALTH Health status and medical resources	Area Resource File	U.S. Department of Health and Human Services	42
ECONOMY Industrial make-up of the economy Industry-specific information	Local Area Personal Income and other sources Economic Census, state, and national reports	Bureau of Economic Analysis and other agencies Census Bureau,states, and other Federal agencies	46 50
GOVERNMENT Local government finance Geographic distribution of Federal funds	Local and state reports, Census of Governments Consolidated Federal Funds Report	Local and state agencies, Census Bureau Census Bureau	62 57
The County and City Data Book is a statist the Government Printing Office. See page The individual data sources are also availa	tical compendium that contains data on each of the sub 25 for ordering information. able from State Data Centers and in many public librar	pjects listed above. It is available in many public librarie ies. See Appendix D for addresses and phone number	es and from 's.

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The Rural Economic Policy Program (REPP) was created in 1985 as a collaborative program of The Aspen Institute, The Ford Foundation, and the Wye Institute. Working closely with The Ford Foundation's Rural Poverty and Resources Program, the REPP encourages greater attention to rural policy issues through a program of research grants, seminars, and public education. The Program is focused on rural concerns, including agricultural policy, community economic development, resource management, and enhanced livelihoods for the rural poor. REPP is funded by a grant from The Ford Foundation.

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COMMUNITY RESEARCHER'S GUIDE TO RURAL DATA

by Priscilla Salant

RURAL ECONOMIC POLICY PROGRAM OF THE ASPEN INSTITUTE



Washington, D.C. 🗌 Covelo, California

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INTRODUCTION

This manual was prepared at the request of the Rural Economic Policy Program of The Aspen Institute, and supported with funds from The Ford Foundation. Staff from both organizations recognize that reliable and timely data are a prerequisite for sound planning and policy development. Unfortunately, decision makers in rural communities are often hampered in their work because they don't know that such data exist or where to find them.

Hence, the purpose of this manual is to acquaint researchers with data that they can use to describe and better understand rural communities. The manual is intended primarily for researchers in locally based community development organizations, although researchers and other analysts in universities, state governments, and policy institutes will also find it useful.

For those who are interested in why this manual was written, a historical context and justification are provided in the next section. The chapter concludes with an explanation of how the manual is organized.

Background

Rural America has experienced dramatic demographic and economic changes in the last several decades. During the 1960s and 1970s, population and employment in rural communities grew, and the long-standing gap between rural and urban incomes became smaller. Just when many analysts were predicting an economic revival in rural America, the fortunes turned. The income gap began to grow again and migration from rural to urban areas resumed. Since the early 1980s, several factors have combined to worsen economic conditions in rural communities. International forces (such as global competition), structural change in the U.S. economy (with significant job losses in goods production), and deregulation (particularly in the transportation and credit industries) have left few rural communities untouched.

Adjusting to change of this magnitude is an enormous challenge. Public and private decision makers at all levels face the task of building a more resilient, diversified rural economy—and that task requires reliable information and analysis.

Many analysts argue that data collection and research on rural communities have not kept pace with changing conditions. Part of the reason for the gaps in our knowledge is obvious—the cost of collecting reliable statistical data increases in less populated areas. Most national data collection efforts utilize sample designs that yield enough observations to make estimates with relatively small sampling errors for urban populations, but not for rural populations. The result is that researchers often lack accurate and timely data to describe conditions in rural communities.

In their 1981 report, Rural America in Passage, a panel convened by the National Research Council (NRC) broke new ground by comprehensively documenting what analysts cannot say and do not know about rural communities (20).¹ The panel concluded that current reporting practices for rural data are seriously misleading because they impose an artificial division between rural and urban areas, as if every community in America could be classified as one or the other polar extreme. Instead of this division or dichotomy frame-

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work that obscures a tremendously diverse rural America, analysts and policy makers would be better served by information from a continuum between the most remote and the most accessible rural communities. A reporting system that accommodated such a continuum would provide a more precise language to describe rural communities.²

The NRC panel also concluded that researchers and policy makers lack an understanding of nonagricultural economic activities and of disadvantaged populations in rural America—a shortcoming due to inadequate data as well as to research priorities. More recently, participants in a symposium sponsored by the Congressional Research Service and the Joint Economic Committee of Congress argued that researchers need to pay careful attention to three additional subjects—work and income distribution; long-term economic and social trends; and intensive, qualitative analyses that test our perceptions and deepen our understanding of conditions in rural America (11).

These national panels have focused attention on where our research and statistical programs should be heading. But just as important as documenting what we *cannot* say about rural communities is documenting what we *can* say. Although policy changes and budget cuts have, in the view of many social scientists, seriously weakened the Federal statistical system,³ a wealth of secondary data still exists. This manual identifies these data sources for both experienced researchers and local decision makers who are unfamiliar with statistical data.

In the context of identifying data sources, "rural" is a geographic concept based on two standards defined by Federal agencies that collect statistics. The first is the urban/rural designation used by the Bureau of the Census in its decennial count of population and housing units. An *urban* area is any incorporated or unincorporated place with a population of at least 2,500, and *rural* is any place not classified as urban. A few other Federal agencies that collect data report statistics for rural and urban areas. Unfortunately, not many are mandated to draw samples that are large enough to describe the rural population in detail. The second standard is the metropolitan designation assigned to every county by the U.S. Office of Management and Budget. *Metropolitan* counties include cities and their satellite communities. *Nonmetropolitan* counties, which numbered 2,383 according to the last "complete count" Census figures (1980), are all others, that is, a *residual*. Because the county unit is the building block of the vast majority of Federal data sources, nonmetro counties become the building blocks of rural data systems, if only by default.⁴

At present, we can make two refinements to the nonmetro county designation. Both are based on classification systems developed by the USDA's Economic Research Service (ERS). The first, often referred to as the Beale coding system, classifies six groups of nonmetro counties based on how urban (or rural) their population is and on how close they are to metro areas. At one end of the spectrum are "urbanized adjacent" counties that have an urbanized population of at least 20,000 and are adjacent to a metro area. At the other end are "totally rural nonadjacent" counties that have no urban population (that is, no place with a population of at least 2,500) and are not adjacent to a metro area.⁵

The second refinement we can make to nonmetro county designations is to use the Policy Impact (or ERS "county-type") coding system which classifies nonmetro counties according to their economic base, the presence of federally owned land, and population characteristics (including retirement and persistently poor). ERS developed these codes to help policy makers and researchers understand the diversity of social and economic conditions in nonmetro areas.⁶

With these refinements to commonly used statistical reporting practices, we can at least begin to describe rural America. The centerpiece of our information base is the Decennial Census of Population and Housing that is conducted by the Department of Commerce every ten years. Using this rich data file, we can describe *in detail* the demographic and economic characteristics of small area populations. For example, the decennial census allows us to answer questions about work and

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income distribution, educational attainment, and the economic well-being of particular types of households.

In between the decennial censuses, we supplement our knowledge about rural America with a variety of less comprehensive sources. A few examples make the point. Estimates from a joint Federal/state program give us a rough idea of population change in small areas from year to year. (County estimates are produced annually and subcounty estimates are produced biannually.) The economic censuses that are conducted every 5 years permit us to describe the structure and activity of the most important industries in each county in the U.S. (albeit with few details). The Bureau of Economic Analysis estimates annual county-level per capita and total personal income and its components. And, data from the Department of Health and Human Services describes the health resources and status of county populations.

Who needs this kind of data? People who make decisions about where rural communities are heading. Public and private community development practitioners, university researchers, elected officials, and policy makers from the local to the federal level all use data and information about rural communities. The purpose of this manual is to help them find what they need.

Organization of the Manual

Chapter 1 of this guide describes a few basic concepts for readers who are not experienced data users. The topics discussed are: primary vs. secondary data; census vs. administrative data; sample vs. population surveys; the media in which data are available; and census geography.

Chapter 2 provides an overview of major data sources that can be used to describe rural communities, including the Census Bureau's decennial and current population programs; the Census Bureau's agricultural, economic, and government censuses; personal income data from the Bureau of Economic Analysis; and labor market data from the Bureau of Labor Statistics. Chapter 3 concludes by explaining where researchers can find data that are generated by these agencies.

Chapters 3, 4, and 5 show how researchers can use Federal, state, and local data to understand social and economic change in the very diverse communities that make up rural America. Sample counties from six of ERS's Policy Impact groups (see page 2) are used to put our data sources in context.⁷ This classification scheme enables us to show how various data sources can be used to explore major rural issues, including the performance of critical economic sectors, the aging of the population, local government, and poverty.

The sample counties are:

- Attala County, Mississippi, a "persistent poverty" county;
- Burnet County, Texas, a "retirement" county;
- Coos County, New Hampshire, a "manufacturing-dependent" county;
- Kossuth County, Iowa, a "farming-dependent" county;
- Nicholas County, West Virginia, a "miningdependent" county; and
- Whitman County, Washington, a "specialized government" county.

The appendices provide readers with addresses and phone numbers for state and Federal offices that house or collect data; details about Census Bureau publications and economic census programs; and information on how to use the Bureau of the Census' *County and City Data Book* in diskette form.

A glossary at the end of the manual gives precise definitions of research and statistical terms and finally, a reference table on the inside back cover explains acronyms used in the text.

Three comments before we begin—first, most of this manual concerns data reported by Federal agencies. However, researchers who are interested primarily in local conditions may find more up-to-date and detailed data from state and private sources (such as local employers). These researchers are encouraged to pursue contacts in their own communities, as well as state resources. (See Appendix D.) Second, knowing where to find reliable data is one important part of research. Another is interpreting and analyzing data to provide information for decision making (6). To find out what kind of analysis has been done on rural communities in your state or region, contact either your state land grant university or regional rural development center. (There are four regional centers around the country—see Appendix C.)

Another useful contact is the Rural Information Center (RIC) at the National Agricultural Library. The RIC provides information and referral services to local officials, community development professionals, and private citizens. RIC staff responds to inquiries on topics such as current USDA research, Cooperative Extension Service programs, and economic development funding sources. They also conduct database searches and help people use the National Agricultural Library collection. You can contact the RIC through your county or state Extension office, by telephone (301/344-2547), or by mail (RIC,

National Agricultural Library, Room 304, Beltsville, Maryland 20705).

Finally, two caveats about using the data described here: first, the value of most data lies not with a single statistic for one particular area, but in comparable statistics for different areas or different time periods. For example, an indivudual county's unemployment rate is more telling when compared to the rate in surrounding counties because it is put in a *relative context*. Our statistical indicators are too imprecise to contain "absolute truth" by themselves.

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Second, statistics are only as valuable as the questions people ask. The most carefully collected data are useless if researchers have not asked questions whose answers inform us about issues that matter. To emphasize that good research begins with good questions, data in this manual are described in the context of how they can be used. It is hoped that the illustrative questions we pose will encourage more substantive and informative research on rural communities.

The Sample Counties⁸

Attala County, Mississippi: a persistent poverty county . . . where per capita personal incomewas in the lowest quintile in each of the years 1950, 1959, 1969, and 1979. In 1985, ten percent of all nonmetro counties were classified as persistent poverty counties—

they contained about 6 percent of the nonmetro population. Nine out of 10 of these counties are in Appalachia, the Ozark-Ouachita Plateau, and the Mississippi Delta.

Compared to others who live in nonmetro counties, people in persistent poverty counties areless likely to have completed high school, and more likely to have a work-limiting disability, to be black, and to be underemployed.

Encouraging development is especially difficult in persistent poverty counties. One reason is that their public services (such as education) are not well-developed. Research clearly indicates that poverty is much more common among people with less education. Hence, a key issue facing counties like Attala is how to remedy deficiencies in education and basic skills and how to overcome problems that prevent people from participating in the labor force.

Burnet County, Texas: a retirement county... where net in-migration rates of people aged 60 and over were 15 percent or more of the expected 1980 population aged 60 and over in the period 1970–1980.

Alter Sud?

In 1985, just over one-fifth of all nonmetro counties were classified as retirement counties—they contained about one-fourth of the nonmetro population. Retirement counties tend to be located in remote (and often scenic) rural areas they are scattered around the country with the largest concentrations in eastern Texas and the Ozarks, in Florida, parts of the Upper Great Lakes states, and in several western states. In recent years, the population in retirement counties has grown more rapidly than in most other nonmetro counties. Their growth is due not only to elderly in-migrants, but also to working age people who are attracted by job opportunities. Transfer payments (like Social Security) are an important source of income to people in these counties. Earnings from trade and services are also important, although wage rates in these industries tend to be relatively low.

Important issues in counties like Burnet concern the availability and cost of providing services (including health care) to the growing elderly population, and in some areas, problems associated with rapid growth. Coos County, New Hampshire: a manufacturing-dependent county ... where manufacturing contributed at least 30 percent of total labor and proprietor income in 1979.

In 1985, 28 percent of all nonmetro counties were classified as manufacturing-dependent—they contained 39 percent of the nonmetro population. Manufacturing counties tend to be more urbanized than other nonmetro counties and are more likely to be adjacent to a metropolitan area. Over half are in the Southeast; others are concentrated in the North Central region and, to a lesser extent, in the Northwest and Northeast.

The rural manufacturing sector is diverse-some regions specialize in natural resource-based manufacturing (like lumber and wood products in Coos. County); others specialize in routine manufacturing that relies mainly on assembly-line skills (like textiles); and still others concentrate on complex manufacturing that relies on technically skilled labor. Each type of manufacturing is vulnerable to different competitive pressures. Routine manufacturers, for example, are especially vulnerable to competition from countries where labor is relatively cheap. An important issue facing such counties is how to upgrade the local labor force through education and job training.

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Kossuth County, Iowa: a farming-dependent county... where farming contributed a weighted annual average of at least 20 percent of total labor and proprietor income over the five years from 1975 to 1979.

In 1985, 29 percent of all nonmetro counties were classified as farmingdependent—they contained about 13 percent of the nonmetro population. These counties tend to be remote—they are concentrated in the North Central region and are also scattered along the Mississippi River Delta, in parts of the Southeast, and in Idaho, Montana, and Washington.

On average, population in farming-dependent counties fell during the 1960s, increased slowly in the 1970s, and in recent years, has begun to decline again (probably in response to financial stress in the agricultural sector). These counties tend to have a higher percentage of people aged 65 and over than other nonmetro counties (except retirement counties). Per capita personal income tends to be relatively high, although income is less evenly distributed among the population.

One of the most important issues facing counties like Kossuth is the shape of Federal agricultural policies, especially those that affect net farm income. Other key issues are the out-migration of young people, the lack of off-farm job opportunities, and the environmental effects of current agricultural practices.

Nicholas County, West Virginia: a mining-dependent county... where mining contributed 20 percent or more to total labor and proprietor income in 1979.

In 1985, eight percent of all nonmetro counties were classified as miningdependent—they contained six percent of the nonmetro population. Miningdependent counties are concentrated in the coal-producing areas of Appalachia and the Midwest; the oil-producing areas of Texas, Oklahoma, and the Louisiana gulf coast; and throughout the Southwest and West.

Mining counties are vulnerable to intense foreign and domestic competition as well as to shifts in the demand for energy and mineral resources. As a result, income and employment in counties like Nicholas are relatively unstable and one of the most important issues they face is how to provide stable economic development that benefits the whole community.

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Whitman County, Washington: a specialized government county ... where Federal, state, and local government activities contributed 25 percent or more to total labor and proprietor income in 1979.

Specialized government counties (which made up 13 percent of all nonmetro counties in 1985) are scattered around the country. In recent years, the population in government counties has increased faster than in most nonmetro counties, probably because of employment opportunities generated by government spending. Paradoxically, however, both per capita personal income and the proportion of the population employed have been lower, on average, than in other nonmetro counties.

Government activities that generate income in these counties include military bases, public parks and forests, universities and colleges (as in Whitman County), State capitals, and prisons. Each activity is associated with different population and labor force characteristics, as well as with different support services. In addition, counties like Whitman tend to have more diverse economies than most nonmetro counties. Despite this diversity, their reliance on government activities makes this group of counties particularly susceptible to policy decisions about the geographic distribution and level of public spending.

Notes

- Underlined numbers in parentheses refer to sources listed in the Reference section of this report beginning on page 67.
- As Bonnen suggests, we lack a satisfactory reporting system because we have not developed a conceptual framework to define what is meant by the term "rural" (6). Absent a conceptual framework, researchers let existing data define the concept by default.
- See, for example, Wallman, Katherine K., Losing Count: The Federal Statistical System, (61) and Bonnen, James T., "The Statistical Data Base for Rural America," (7).
- In rare cases, we have data for sub-county areas such as municipalities. These data are generally only available from economic and population censuses.

- The Beale coding system also classifies four groups of 5. metro counties. Codes for all counties in the United States are available on diskette for \$25 from "ERS Data," Room 228, 1301 New York Avenue NW, Washington D.C. 20005-4788.
- ERS is revising this system. The original codes are 6. available from "ERS Data" for \$25. See footnote 5.
- The classification system used here is adopted from 7. Bender et al., "The Diverse Social and Economic Structure of Nonmetropolitan America," (3).
- 8. This section is based on Bender et al., (3). See the original publication for precise classification criteria and for maps that show where counties in each group are located.

DATA CONCEPTS

data . . . things known or assumed; facts or figures from which conclusions can be inferred; information (13)

statistics . . . facts or data of a numerical kind, assembled, classified, and tabulated so as to present significant information about a given subject (13)

Kinds of Data

From the researcher's perspective, statistical data come from either primary or secondary sources. Primary data are those collected directly by the researcher for a specific study using, for example, personal or telephone interviews. Secondary sources are existing data (collected by a government institution or private vendor) that the researcher uses for his or her particular analysis. This manual is solely concerned with secondary data sources. To the extent that researchers find secondary sources inadequate (whether because of detail, accuracy, or timeliness), they may wish to collect primary data.

Secondary data have been collected in either census or survey form (U.S. Bureau of the Census) or administratively, in the course of an organization's normal business (Internal Revenue Service or Social Security Administration). Both survey and administrative data are discussed in this manual.

How Data are Available

Statistical data are issued in two principal media:

• *Hard copy* (either in a publication, on a computer printout, or on microfiche); and

• *Electronic format*, that is, computer accessible (either on tape, diskette, laser disc, or "on-line").

Computer printouts and published statistical data require no special equipment to use and are the most readily available through local libraries and agencies. However, they are also the bulkiest and often do not contain as much detail as other forms of data, nor are they regularly reissued when data are revised. Further, data in this form must be manipulated or "recombined" by hand. Researchers can request a computer printout of specific tabulations from some government and private agencies when they know exactly what statistics they need and are willing to pay the extra cost.

Microfiche—hard copy in "mini-form"—are 4×6 inch sheets of microfilm containing from 98 to 420 images arranged in a grid. Microfiche can be viewed with machine readers which are readily. available in local libraries. Microfiche are inexpensive to purchase and distribute by mail (because they take up little space and are lightweight). All printed reports from the 1970 Census are contained on 4,352 microfiche, which take up less than one cubic foot of shelf space (<u>18</u>).

Computer accessible data—data in electronic format that can be read and manipulated by a computer—require either a mainframe (for tapes)

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or a personal computer (for diskettes and laser discs). Tape files, such as those produced by the U.S. Bureau of the Census, may be highly detailed and require some programming expertise to use.

As personal computers gain in popularity, data on diskettes are becoming more widely available and generally come with utility software that make them "user friendly." In addition, more software is being written to meet the needs of less specialized users.

"On-line" data files are those which are stored in a computer and can be accessed by computer users with a modem (which translates signals between a computer and a telephone).¹ Most online files consist of bibliographic information, although a limited amount of statistical data are also available.

CD-ROMs—laser compact discs with "read only memory"—can be used on personal computers with the proper hardware and software. They are likely to be used widely in the future because of their enormous data storage capability. Each can hold as much as four magnetic tapes at 6,250 bits per inch or 1,600 flexible diskettes.

This manual focuses on data that are issued in hard copy and diskette form. Almost all of these data are also issued on tapes or CD-ROM. Researchers should contact the issuing agency if they have the necessary hardware and expertise to use tape and CD-ROM files.

Population vs. Sample Data

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Each decade since 1790, the U.S. Census Bureau has conducted a population *census*. A census is a count, or enumeration, of the total population in a given area. Censuses can include things other than people—since 1940, the U.S. Census has also enumerated housing units.

Planning for the 1990 decennial census began in 1983; its total cost will be roughly \$2.6 billion. By mid-1990, the Bureau will employ about 400,000 temporary workers in addition to its regular staff. When the 1990 Census population reports are all issued by 1993, data will be available for areas as small as single blocks (<u>24</u>). Contrast the decennial census with the Census Bureau's Current Population Survey (CPS), which is a monthly survey that gathers data from a sample of the population—about 60,000 households. A sample is "part" of a population carefully selected to represent the "whole" population. The Census Bureau and the Bureau of Labor Statistics (BLS) use the CPS sample to estimate many widely quoted statistics, including the unemployment rate and the percentage of persons with incomes below the poverty level.

The kind of data collected in the CPS is similar to that in the decennial census, but because it comes from a *sample*, it cannot be used to analyze areas below the regional (and in some cases, the state) level. Estimates about smaller geographic areas are unreliable because of the relatively small sample size—the smaller the sample, the greater the margin of error.

Sampling is critical to research. By scientifically choosing a sample of observations that represents an entire population, researchers save money and time on data collection and analysis. They survey fewer people, and they process less data.²

To illustrate this point, consider the case of poverty estimates from the Bureau of the Census. Using only CPS data from the 60,000-household sample, the Bureau estimates the number of persons and families with incomes below the poverty level for the nation as a whole, for regions of the country (South and Nonsouth), and for certain demographic groups (like female-headed households in nonmetro areas). The Federal government gets the statistics it needs (and saves money) by surveying only a representative sample of 60,000 households in between the decennial census years.³

Many of the data sources described in this manual are derived from samples of a population rather than censuses. The detail and accuracy of estimates based on samples depend on how large the sample size is as well as on how similar the sample is to the population. A larger sample yields greater accuracy, that is, a smaller *margin* of error.

Census Geography and the Notion of Rural⁴

The U.S. Bureau of the Census, which produces much of the data discussed in this manual, reports statistics for geographical areas ranging from the entire United States to single city blocks. Some of the areas are governmental units (legally defined areas such as states and counties), while others are defined by the Census Bureau solely for purposes of collecting data (such as regions and "enumeration districts"). Understanding Census Bureau geography is an important part of making the most effective use of the agency's data.

Figure 1 illustrates the four census regions defined for the United States. They include the West, Midwest, Northeast, and South. Each region is composed of two or more geographic divisions or groupings of states. The states themselves consist of counties and their equivalents (3,137 plus 78 in Puerto Rico).

Figure 2 shows the national geographic relationships used by the Census Bureau. Counties are divided into either (1) minor civil divisions (MCDs), which are town and township governmental units (about 25,000 total), or (2) census county divisions (CCDs). CCDs are statistical units designated by the Census Bureau in states where MCDs do not exist. They total 5,512 (plus 37 boroughs in Alaska).

In addition to being divided into counties (and MCDs and CCDs), states are also broken down into (1) incorporated places, which are governmental designations, and (2) census designated



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places (CDPs), which are unincorporated, closely settled population centers with populations of at least 1,000. Incorporated places and CDPs sometimes cross county boundaries and are therefore shown separately from the county hierarchy in Figure 2.

In the past, MCDs and CCDs were further divided into either enumeration districts (primarily in rural areas) or block groups.⁵ Unfortunately, this system made legislative redistricting difficult for the states. Districts and block groups were too large for precise, small area population counts, and furthermore, their boundaries did not always coincide with voting districts. To remedy these problems, the Census Bureau will divide all MCDs and CCDs into blocks for the 1990 Census. In rural areas, block boundaries may be visible features such as roads, powerlines, and shorelines. They may also include features such as fences, canyons and ravines, and abandoned railroads.

The Census Bureau uses two other classification schemes that are pertinent to rural data use. The first classifies the entire U.S. population into either metropolitan or nonmetropolitan. The Office of Management and Budget has designated some 285 metropolitan statistical areas (MSAs). MSAs are made up of one or more counties around a large population center together with adjacent communities which are socially and economically integrated with the central city. (Integration is measured in terms of the number of workers who commute to the central county).⁶ MSAs are made up of entire counties to make gathering and comparing data easier. People who live in metropolitan counties comprise the *metro* population, while everyone else makes up the *nonmetro* population. In the early 1980s, OMB classified 2,383 counties (and selected independent cities) as nonmetro. These counties are indicated in Figure 3.

The final scheme, illustrated in Figure 4, breaks the total population into either urban or rural. All persons living in urbanized areas (defined as central cities and surrounding densely settled territory with a combined population of at least 50,000) as well as those living in places of 2,500 outside urban areas are classified as urban. The rest of the population is considered rural (either farm or nonfarm).

The urban/rural and metro/nonmetro schemes are based on different concepts so they are not interchangeable, although many researchers confuse the two. The urban/rural split actually cuts across the metro/nonmetro split—urban areas exist within nonmetro counties and rural areas exist within metro counties.

Public vs. Private Data

The Census Bureau and other Federal, state, and local agencies are *public* data sources. The data they estimate or collect are produced at public expense in order to carry out some statutorily initiated program or regulation. They make data available to the public on a cost recovery basis or free of charge, as a public service.

For the first time, the entire U.S. has been blocked (on the 1990) Census, the first block evelstatistics to be released creatator population brock and the first block evelstatistics to be released creatator population to be the population of the second constrained by the block evelstatistics will be assured for a strained brock evel statistics will be assured for a strained brock evel statistics will be assured for a strained brock evel statistics will be assured for a strained brock evel statistics will be assured for a strained brock evel statistics will be assured for a strained brock evel statistics will be assured for a strained brock evel statistics will be assured for a strained brock evel statistics will be assured for a strained brock evel statistics will be assured for a strained brock evel statistics will be assured for a strained brock evel statistics will be assured for a strained brock evel statistics will be assured for a strained brock evel statistics will be assured for a strained brock evel statistics will be assured for a strained brock evel statistics will be assured for a strained brock evel statistics will be assured for a strained brock evel statistics will be assured for a strained brock evel strained brock evel statistics will be assured for a strained brock evel strained brock e





Source: Economic Research Service, USDA

Data Concepts 13

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Private data organizations, on the other hand, offer repackaged public data or data they collect themselves, generally for a fee. There are both forprofit and nonprofit private data firms. Their main customers are businesses that need easy-to-use, current statistics and forecasts to evaluate consumer markets. One private demographic firm, for example, sells a database containing current and

Notes

- 1. See "Computers for Neighborhoods" for more information about how community researchers can use computer accessible data (9).
- For a good discussion of sampling, see The Practice of Social Research, Chapter 7, (2). Note that some data collected in the decennial census are also sample based. See page 17.
- Researchers use samples to estimate poverty rates for smaller areas as well, but their margin of error is necessarily larger. See shaded box on page 37.
- This discussion is abstracted from "Census Geography—Concepts and Products," (35) and Census Catalog and Guide 1987, (34).

projected population estimates by age, sex, income, education, and other characteristics for all zip codes, minor civil divisions, and counties in the United States. Another firm sells 1987 Census of Agriculture data as well as recent employment and income data on CD-ROM.

As a rule, private data firms issue data that are more reliable for urban areas than for rural, primarily because their business clientele are interested in larger, concentrated markets. However, some privately issued data products may suit a particular rural researcher's needs. If so, a good place to start hunting for a suitable private data vendor is *The Insider's Guide to Demographic Know-How* for sale from American Demographics Press for \$49.95. American Demographics also publishes a regularly updated special report called "Directory of Demographic Products and Services." Call (800) 828-1133 for more information.

- The definition of a block is a "polygon with discernable geographic features." Blocks have no minimum population. In 1980, the average block size was 72 people.
- 6. An MSA must either have: (a) a city (i.e., an incorporated place) with a population of at least 50,000 or (b) an urbanized area (i.e., a Census designated area) with a population of at least 50,000 and a total MSA population of at least 100,000. For the precise definition, see "New Standards for Metropolitan Statistical Areas," in *Data User News*, (50). OMB reviews the official MSA definition each decade prior to the decennial census. Hence, the agency may revise the definition soon.

Chapter 2

OVERVIEW OF SOURCES

The core of our knowledge about rural communities comes from the Census of Population and Housing that the Federal government conducts every ten years. We supplement these decennial census data with other statistics from the Bureau of the Census as well as with information from a variety of other Federal, state and local agencies (Figure 5).

The section below describes the most important sources of data that researchers can use to analyze rural communities. The chapter closes with a description of several useful reference materials and statistical compendia.

The Decennial Census of Population and Housing

The Census Bureau is the Federal agency that is primarily responsible for collecting and publishing information about individuals, households, businesses, and governments. Foremost among the agency's activities is the decennial census, which is an invaluable source of information for two reasons. First, it is exceptionally rich in the detail it provides, and second, it is nationally uniform for all geographic areas. In fact, the decennial census is our only nationally uniform, small-area source of data for such important variables as educational attainment, poverty rates, and employment by occupation. (Local organizations, businesses, or units of government may conduct surveys or develop methods to estimate such variables from secondary data sources, but their information cannot be compared to other areas in the country.)

Tips for Community Researchers: How to Locate and Use Data

• Find a well-informed, helpful reference librarian who can assist you in fracking down documents, phone numbers and personal contacts. In your public library first, but if help is unavailable, go to the library of the nearest community college.

 If no one in your community can help youfind the data you need, call the source: Keep calling until you get what you need. Reference books like those discussed on pages 24-26 of this report are designed to help you find people to call.

• Read the technical documentation that accompanies each of your data sources. This matterial explains how the data were collected and provides definitions of terms used in the document. It may be helpful to review the questionnaire that was used to collect the data Many agencies include, a copy in the appendix of their publications.

 Be precise in your use of research terms. Make sure your understand the definitions of terms your use to describe the characteristics of your community such as labor force unemployment rate and poverty level. Refer to the Glossary at the end of this report, as well as the data sources that you use.



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The U.S. Constitution called for the Federal government to count the population every ten years beginning in 1790. The primary reason for conducting such a census was to *apportion* (or divide) the number of members of the House of Representatives among the states according to their population. The second reason was to assess the nation's military and industrial strength by counting the number of males old enough to fight in the militia and work in the labor force (44).

AsyAccorclinication Census Action 1790 withe purpose of the census was to learn Steenstrate and the formation of the second s ensincialexee. /elactosticoulsiloeanee a persons and itom clubiners. The sex and colorof free periods and the number of free males 16 years of declaration older.

Since 1940, the decennial census has also included the census of housing, which counts and collects descriptive information about the nation's occupied housing units.

In April 1990, the Bureau of the Census will conduct the 21st decennial census. As in past censuses, the Bureau will try to survey every household in the United States. Roughly five out of every six households will receive a short form questionnaire containing the so-called "100 percent" items, or core population and housing questions.

The remaining households, numbering roughly 17.7 million, will receive the long form which contains more detailed questions in addition to the same "100 percent" items as the short form as well as additional, more detailed questions. Households in rural areas will be over-sampled, that is, proportionately more (1-in-2 instead of the average 1-in-6) will receive the long form so that small-area data can be estimated with an acceptable margin of error. Alaska Native villages and American Indian reservations will also be sampled at the higher rate to insure a sufficient number of observations.

By law, the Census Bureau must deliver final population counts to the President by December

31, 1990. These counts will be used in reapportioning representation in the U.S. Congress. By April 1, 1991, the Bureau will deliver census figures accurate to the block level for purposes of state congressional redistricting. Other tabulations and publications will be completed by the end of 1993 (24). (See Appendix A for a detailed list of Census reports that contain data for rural areas.)

The 1990 short form will contain questions about:

POPULATION	HOUSING
Name	Number of units in structure
Household relationship	Number of rooms in unit.
Sex	Tenure (owned or rented)
Age	Value of home or monthly rent
Marital status	Congregate housing (meals
Race	included in rent)
Hispanic origin	Vacancy characteristics

The 1990 long form will contain questions about:

POPUL	ATION
Social characteristics:	Econ
Education—enrollment	Emple
and attainment	une
Place of birth, citizenship,	Occuj
and year of entry	clas
Ancestry	Place
Language spoken at home	com
Migration	Work
Disability	inco
Fertility	
Veteran status	

Economic characteristics: Employment and unemployment Occupation, industry; and class of worker Place of work and commuting to work Work experience and income in 1989

HOUSING

Year moved into residence Number of bedrooms Plumbing Kitchen facilities Telephone Autos, light trucks, and vans Heating fuel, water source, and method of sewage disposal Year structure built Condominium status Farm residence Shelter costs, including utilities

Figure 6 illustrates a sample page from the 1980 Census of Population and Housing report, General Social and Economic Characteristics, for Whitman County, Washington.

Figure 6 Sample Page From the 1980 Census of Population General Social and Economic Characteristics (PC80-1-C49).

Table 184. Labor Force Characteristics by Race and Spanish Origin for Counties: 1980-Con.

{Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendixes A and B]

		whin	man				Yakima		
Counties (ADD) or More of the Specified		Race				Roo	I		
Racial or Spanish Origin Group]	White	Skock	Asian and Posific Islander	Spanish origin'	White -	6 iock	American Index: Estama, and Aleut	Asian and Poeific Likender	Spanish origin' -
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Immofe of institution Fenale, 14 years and ever Ubber force Penant of female, 16 years and over Cvices labor force Immofestation Immofestation	287 13 238 6 967 45.7 6 965 6 660 305	2 136 131 . 55.5 134 120 14	425 220 51.8 220 204 16	- 153 41 26.8 41 30 11 21.9	56 378 27 387 48.6 27 375 24 630 2 745	28 531 222 41.8 222 202 20 20 20 20	2 435) 096 45.0 ; 096 874 222	361 275 49 7 277 245 32	- 4 400 3 550 53.8 3 550 - 2 967 581
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Unamployed. Not in labor form. Generals, 16 years and over With own children under è years	151 3 612 15 234 1 636 776	91 236 27	6 106 425 71	115 153 17	685 4 901 56 398 6 792 4 000	20 143 531 71 -	50 517 2 435 472 241	50 561 120	262 1 220 6 400 - 2 430 - 1 253
With own children 6 to 17 years univ	1 685	31	39 24	8	10 617	106 78	566	122	415 903

How to read data in a census Bureau report-

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Figure 6 illustrates part of a typical table produced by the Census Buteau in the Washington State volume of General Social and Economic Characteristics. Table 184 covers eleven pages and includes data for each of 39 counties in the state. The purpose of Table 184 is to report data on the labor force characteristics of people in different racial groups and those who are of Spanish origin. These county-level data are only provided for groups of at least 400 people.

The first line of data. Persons 16 years and over 1 includes *all* people who are at least 16 years of age in each racial and Spanish origin group of 400 persons or more. In Whitman County for example, there are at least 400 white and 400 black persons it's years and over. but fewer than 400 American Indians, Eskimos, and Aleuts: Note also that there is portotal column—we cannot learn the total number of persons 16 years of age and older from table 184. (By checking the Table Finding Guide at the beginning of the volume incover, we learn that data on the total labor force is reported in Table 176).

The tenthiline in Table 184 covers ternales who are at least 16 years and older Research: ers who waphto know the labor force characteristics of males to years and over by race and Spanish origin need to subtract line 10 (temales) from line 1 (all)

Row labels are indented to indicate either a subgroup or a percentage. For example, line 1. Includes all people 16 years and over fline 2 (indented) includes only people 16 years and over who are in the labor force, and line 3 (indented further) shows the percent of people 16 years and over who are in the labor force (line 2 divided by line 1). Une 8 includes persons age 16 years and over who are in the labor force (line 2 divided by line 1). Une 8 includes persons age 16 years and over who are in the labor force (line 2 divided by line 2). Une 8 includes persons age 16 years and over who are in the labor force (line 2 divided by line 2). Une 8 includes persons age 16 years and over who are in the labor force (line 2 divided by line 2). Une 8 includes persons age 16 years and over who are in the labor force (line 2 divided by line 2). Une 8 includes persons age 16 years and over who are in the labor force (line 2 divided by line 2). Une 8 includes persons age 16 years and over who are in the labor force (line 2 divided by line 2). Une 8 includes persons age 16 years and over who are in the labor force (line 2 divided by line 3). Une 8 includes persons age 16 years and over who are in the labor force (line 2 divided by line 4). Une 8 includes persons age 16 years and over who are in the labor force (line 2 divided by line 4). Une 8 includes persons age 16 years and over who are in the labor force (line 2 divided by line 4). Une 8 includes persons age 16 years and over who are in the labor force (line 2 divided by line 4). Une 8 includes the labor force (line 4) are defined in Appendixes A and 8 of this Census report. Check the definitions before using the data to describe the characteristics of your community. Decision makers at all levels of governiment, and in businesses and community based organizations use summary statistics from the decennial census. Here, ore some examples

 Federal administrators use socializinal economic census caracterization administration inities to allocate/ollions of collarity of the of government aregrams including community Development Block Steats agriculteral research, cooperative extension, and headstait, as a second

 State transpondition officials use census data about commuting patterns to plan for new biggways.

 Social Service, agencies, Use, ceases editate dentity aceas, with high ceases trations of eldent (decide single portent households and alternational single portent need; particular assistance; t

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Current Population Reports and Surveys

The Census Bureau also collects demographic information in between the decennial censuses (so-called "intercensal" information). Under a contract with the Bureau of Labor Statistics, the agency conducts the Current Population Survey (CPS) for which they interview a sample of 60,000 households every month. CPS data are the basis for regional estimates of employment, unemployment, income, education, and many other population characteristics.

Because the CPS data are from a relatively small sample, they are not available below the regional level (except for some of the larger states). However, they are useful for tracking national and regional (South and Nonsouth) trends between the decennial censuses. Some reports, for example "Poverty in the United States: 1986," also make metro/nonmetro breaks in the data at the regional level and therefore give us a bird'seye view of conditions within the nonmetro population (<u>39</u>).

For more up-to-date information about population change and per capita money income in counties and sub-county areas, the Census Bureau

The symbol "(D)" is the Census Bureau a gractanice of confidentiality and its states of the second music field dual test of second music field dual test of second second for the individual test of second second for the introduction of the service of the individual test of the second second the introduction of the second second bases the second second second second second second bases the second second second second second second bases the second second second second second bases the second sec

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cooperates with state agencies under the Federal-State Cooperative Program for Population Estimates. In addition, many states make their own estimates about more detailed characteristics of local populations, such as age, race, and ethnicity. These annual statistics enable community researchers to answer questions about how the size and composition of the local population is changing.

Other Censuses

In addition to the decennial Census of Population and Housing, the Census Bureau conducts national agriculture, economic, and government censuses twice each decade in the years ending in "2" and "7." Most of these censuses yield data for counties, and in some cases, for sub-county areas.

Reports from the 1987 censuses are being released as this manual goes to press. Those in the 1987 series that have the title "Geographic Area Series" typically contain the most small area data. (See Appendix B.)

Unlike the population census, which uses the household as its unit of observation, the agriculture and economic censuses survey *establishments*. The Bureau defines an establishment as a "business or industrial unit at a single physical location that produces or distributes goods or performs services" (54). Establishment lists are compiled from a variety of administrative sources and are updated continually.

For its Census of Agriculture, the Census Bureau attempts to survey the operator of every establishment in the country which had (or potentially had) at least \$1,000 of agricultural product sales in the preceding year. The agricultural census yields county (as well as state and national) level data on number and type of farms, land in farms, operator characteristics, value of agricultural sales, selected operating expenses, etc. The 1987 Census of Agriculture, published on a stateby-state basis, was released in 1989.

For its economic censuses, the Census Bureau organizes establishment data by geographic area

The Standard Industrial Classification, or SIC, system is a standard scheme for grouping establishments by the type of economic2 activity in which they are primarity engaged.

Researchers in and out of government use this system because it is some hensive—virtually all establishmeet fran be classified

The SIC system is hierarchic divisions in goes from very general or overy specific its broadest level has teachy signs (agriculture forestry and strength slops) (agriculture forestry and strength slops) in an use thing transportation. communications teacher that goes and sanitary services wildle sale trade: retail trade: finance fin

SIC Level Example Major IndUstry group /2 Personal Sa Endustry group /21 Latendby Cla gaments

ndustry /210

Services Division is Social Service wpains were lighted a warm of the second Social Services: Not Elsevitiere **Milect. A SIC 8399**. Coontectorelettestestice at or the most detailed SIC level possible disclosing confidential into motion sthe most recent edition of the state ConclineUsitiol@lessificentionMetrics.cos ouplished in 1987. It is evolution of the av DUBIC TO CHES CONCINS (OF SELECTION Notional lecalication on the Sectors

and type of economic activity or standard industrial classification (SIC), a system which has been defined and recently revised by the Office of Management and Budget. Since the Census Bureau cannot disclose information about individual establishments, fewer statistics are available for small areas. (Appendix B shows the types of economic data that are available at the county level.)

Economists use data from the economic censuses and other sources to estimate the gross national product (GNP), productivity, and other measures of economic activity. Community researchers can use related data to find out, for example, how various industries contribute to the local economy in terms of payroll, the purchase of supplies and other inputs, and the value of shipments to buyers outside the area.

The Census of Governments is conducted every five years and is supplemented by annual and quarterly surveys. Unlike the economic censuses, the government censuses are not covered by the disclosure limitation that suppresses information about individual observations. Thus, the level of detail in the government census reports is greater. Data on revenue sources, expenditures, tax bases, and employment are available for roughly 82,000 units of local government including counties, municipalities, townships, school districts, and special districts. Private firms that sell products or services to local governments use these data to identify marketing opportunities. Community researchers can use them to understand how their local government is structured and how various government units generate revenue and spend money.

Other Surveys from the Census Bureau

The Census Bureau's economic activities also include several surveys; for example, the Annual Survey of Manufacturers and the Survey of Minority-Owned Business Enterprises. In general, these surveys yield little or no small-area data. The exception is County Business Patterns (CBP), which is issued annually and is based on data from establishment surveys and administrative records. CBP presents national-, state-, and county-level business data by two-, three- and four-digit SIC codes. It includes data on industries which are not covered by the economic censuses, for example, finance, insurance, and real estate. CBP can be used to answer questions about the number of employees and firms in particular industries. Because it is published annually, researchers can keep track of year-to-year changes in the structure of local economies. Figure 7 illustrates a sample page from CBP for Nicholas County, West Virginia.

Figu	gure 7 Sample Page From the County Business Patterns (CBP-86)													
Tabi Exclud (D) de	able 2. Counties—Employees, Payroll, and Establishments by industry: 1986—Con.													
		Number of	Payroll	(\$1.000)	Totat		Numb	er of esta	bighmen	ts by emo	inemyok	me crez	5	
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151	General building contractors	່ (ລ	(D)	(0)	· 15	. 7 İ	- '		· •	-	-	-	- :	
			·							•				

Figure 8 Sample Page From BEA's Local Area Personal Income 1981-86

TEXAS

LOCAL AREA PERSONAL INCOME

Table 5.---Personal income for States and Counties of the Southwest Region, 1981-86---Continued

	Busteson, Texas							Burnet,	Tesas	<u> </u>		
	1981	1987 İ	1983	1984 j	1985 1	1985	1981 (1982	1983 Ì	1984 -	1985 1	1986
Income by Place of Residence	1	í		Ī			i					
Total personal incense Nontam persanal incense Farm ecome	127.004 124.120 2.764	126,771 122,739 3,582	125,175 121,904 1,021	136.814 130.352 5,562	942 334 139,800 1,134	140,4 36 137,770 2,716	197 <i>27</i> 9 189.053 1225	225.046 216.501 4.545	242.916 736.675 6.735	- 72,72 176,023	- 119.090. 312,104 -	125.10
Prosision (thousands)*	- 13.6 9.514	14.8 1,513	16.8 \$357	149 9.136	101	110 9,366	184 14.736	19.3 11.671	72.5 72.5	21.7	21.9 21.9	23.9 1.15
Derivation of total personal income. Total examings by place of eonit. Tecs: Personal contributions to social esciences ⁴ Phys Adjustment for rescence fousite Net sammings by place of rescence. Phys Devidents, exteres, and rest ⁴ Phys. Devidents, exteres, and rest ⁴	108,721 5,723 - 17,277 45,721 19,422 21,938	55.465 4.611 2.385 79.469 22.035 25.217	73.4cm 1.931 3.129 77.792 21.696 26.027	71,752 1,847 15,326 13,231 25,112 27,671	69.127 4.033 19.592 85.078 27.584 29.974	61.389 3.632 18.409 76.166 32.087 32.233	14,355 4,117 9,343 90,081 60,950 46,748	101,040 5,211 7,559 104,406 64,801 55,757	101.166 3.667 4.178 10.677 60.543 63.543	124,615 5,610 1,732 126,729 85,760 10,726	138,958 1,776 10,742- 101,117 101,117 101,117	- 144.077 8.645 11,661 107.091 903.921
Earnings by Place of Work ananys by Hype Wayes and salarus Proper state meany Properties and meany	85,212 1,768 10,804 1 597	67,742 6,614 17,109 2,709	54,729 5,315 13,359 3,714	52.371 4.987 14.894	51,826 4,343 11 (54	44,465 4,212 12,707 1,485	19.965 4.946 29.444 2.528 21.976	61,902 6,430 33,508 1 140	65,905 7,097 34,161	78,135 1,021 38,179 5,545	88,203 8,876 4),879 6 ³⁷⁷	90.10 91.10 9.15

Other Economic Data

The Bureau of Economic Analysis (BEA) is another agency in the U.S. Department of Commerce that makes economic estimates that are useful for describing nonmetropolitan (and other) counties. Unlike the Census Bureau, BEA does not conduct surveys or censuses itself, but uses administrative and survey information collected by others to make its estimates of personal income (by type and industry) and employment.

Each year, BEA publishes a five-volume series called *Local Area Personal Income (LAPI)*, which contains county-level personal income data. Figure 8 illustrates a sample page from *LAPI* for Burnet County, Texas.

BEA county income data are widely used to analyze the industrial structure of local economies and to evaluate the impact of various public and private programs. Community researchers can use BEA data to find out how total and per capita personal income is changing in their county, and to what extent local residents depend on different sources of income (for example, wages and salaries, retirement payments, and interest and dividend income).

BEA makes its personal income and other data accessible to local users through its Regional Economic Information System (REIS) and the BEA User Groups. REIS includes data files, computer programs, and staff responsible for the regional BEA data bases. REIS responds to specific data requests and also distributes BEA data at no cost to over 200 members of the BEA User Groups around the country. Members of the User Groups (which tend to be located in government agencies and universities) distribute data for free or at minimal cost within their own state. Researchers can locate BEA User Groups in their state by calling REIS (202/523-0966).

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BEA also publishes a monthly report called Survey of Current Business. The Survey includes annual personal income data by county and current business statistics, including consumer and producer price indexes.

For more information on BEA's information services—order the free publication "A User's Guide to BEA Information" from Public Information Office, BEA, U.S. Department of Commerce, Washington, D.C. 20230. Include a self-addressed, stamped envelope (9" x 12") with \$.75 postage. BEA also publishes a free list of telephone contacts for data users.

Another important source of economic information about rural communities is the Economic Research Service (ERS) in the U.S. Department of Agriculture. Using data collected by other agencies, ERS carries out research on the production and marketing of major farm commodities; foreign agriculture and trade; economic use, conservation, and development of natural resources; trends in rural population, employment and housing; rural economic adjustment problems; and performance of the U.S. agricultural industry. Although most ERS reports and analyses address regional and national issues, the agency's broad expertise makes it an invaluable and unique resource for those concerned with rural communities.

Reports is a periodic ERS newsletter that lists all current agency research reports and other publications. To be placed on the free mailing list for *Reports*, contact the Information Division, Room 237, 1301 N.Y. Ave. NW, Washington, D.C. 20005-4789 or call (202) 786-1512. The Information Division also issues a free diskette that contains a "Finders' Advisory System." The diskette includes a complete listing of ERS data products, information specialists, and publications. No programming knowledge is required to use the system and free updates are sent on request.

Labor Market Information

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Another very important source of information about rural communities is the Bureau of Labor Statistics, which is the principal data-gathering agency on the subject of labor economics. BLS surveys businesses, works with the Census Bureau on the Current Population Survey, and cooperates with state agencies to produce a wealth of labor force statistics. Using BLS annual, quarterly, and monthly data; economists and other analysts can track the level of economic activity in the country as a whole and in specific regions; gauge the health of individual industries; and compare wage rates and earnings among specific demographic groups. Using annual county-level estimates prepared by BLS and individual states, community researchers can learn how many people are working in various industries, how much they earn, and (on a monthly basis) how many people are unemployed.

The Agriculture and Rural Economy Division. (ARED) of ERS is the largest Federal unit devoted entirely to research on rural issues. ARED economists, sociologists, demostars phers collical scientists, and geographers analyze national and regional trends affects ing rural communities. Their research is st fended to inform policy makers and come gram managers at all levels of the start and private sector. According to a recent brochure come ERS, each of ARED's six branches, come on a unkue aspect of rural America

Formore information, call the Branch whose /phone infumber is in parent below. • The *farm Sector financial Analysis by the* monitors the financial performance of the

and other components of the America tarm sector. (202/786-1800) • The **Farm and Rural Economy Bronce** ducts research on the strecture of the sector. tarm and nontrarm labor m sand links between tarming and othe torseat the community level. (202/785

 The Finance and Tax Branch analy Impacts of developments in financia test and changes in Federal to voy seinculture and rate cohorales (2027) is the Rural Business and Sovemment.

Studies the organization, and perfern of the rutal economy and its officered tries. (2021//86-1542)

• The Human Resources Branch research the geographic algitication specification problemation employment in and living conditions of people in reters (202/786-1532)

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HARED potolishes connorazine caller and Pavelopment Perspectives, which press results and implications of new runch exercise of ERS significant on other sind operyed, subscription, (hiree, issues) SPLO and campe or detect from ERS in the Dept. RDP210, PRO-Bax 1608, Rockviller View 24 A COMMUNITY RESEARCHER'S GUIDE TO RURAL DATA

Two BLS programs yield small area data —Employment, Wages, and Contributions (ES-202) and Local Area Employment and Unemployment Statistics. For more information on BLS, see *Major Programs, Bureau of Labor Statistics* (<u>59</u>) or call Information Services (202/523-1327). BLS provides a free list of telephone contacts for data users.

Where to Find Data on Rural Communities

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Data products issued by the Federal government (including reports, computer-accessible files, microfiche, and maps) are available at various locations in each state. Perhaps the most accessible are the 1,300 public libraries that belong to the Federal depository library program. These libraries receive selected Federal publications that their staff believes will be most useful to local patrons. Appendix D lists one Federal depository library for each state and the District of Columbia.

An additional 120 public libraries are designated as Census depository libraries. Their function is to ensure that Census Bureau publications are widely available to the public and conveniently located around the country.

To find the depository library closest to you, call the library listed in Appendix D for your state or Data User Services Division at the Census Bureau (301/763-4100). See page 15 for tips on what to do if your local library does not have what you need.

Other sources of Federal data products are agencies belonging to the State Data Center (SDC) program, which has offices in all states, the District of Columbia, Puerto Rico and the Virgin Islands. This program typically includes a state executive or planning office as the lead agency, a major state university and/or state library, and a network of affiliates throughout the state. The Census Bureau provides the lead agencies with Census products and training. In return, the SDCs are responsible for disseminating Census products free or at low cost to data users throughout the state. The services offered by individual SDCs vary considerably according to local leadership and funding. A list of SDC lead agencies is included in Appendix D.

Two government agencies sell data products on a cost recovery basis. These products include hard copy, microfiche, and computer readable reports. The agencies are (1) the Government Printing Office (GPO-Washington, D.C. 20402, 202/783-3238) and its branches around the country and (2) the National Technical Information Service (NTIS-5285 Port Royal Road, Springfield, Virginia 22161, 703/487-4763). GPO generally sells printed reports while NTIS sells electronic data products and typically distributes more technical reports. NTIS is also responsible for making some government data files available to the public. More historic data may also be available from the Center for Electronic Records, National Archives and Records Administration, Washington, D.C. 20408 (202/523-6771).

Useful Reference Materials and Statistical Compendia

The Census Bureau produces four reference publications to inform data users about Bureau activities and reports. The most comprehensive reference publication is the annual *Census Catalog and Guide* which provides a product overview and index, abstracts of all recent products, ordering information and forms, and sources of assistance. The catalog can be purchased for \$19 from the Government Printing Office in Washington, D.C. and is also available in many libraries.

The Monthly Product Announcement updates references cited in the catalog and is available at no cost from the Bureau's Customer Services Division (301/763-4100).

Census and You (formerly Data User News) is a monthly newsletter about new products and issues of interest to data users. For example, the June 1988 issue included articles about 1990 Census plans for counting Asian and Pacific Islander groups; the rate of population increase among blacks; recently published Census reports on federal expenditures by states and communities; a Census slide show on the socioeconomic status of American women; and news from the Small Business Administration. A one-year subscription to *Census and You* can be purchased from the Government Printing Office for \$10.

Factfinder for the Nation is an occasional series of pamphlets that describe the range of Census materials available on topics such as population, housing, and foreign trade. Factfinder Number 22, issued in January 1986, for example, described data available for small areas, including counties, cities, and county subdivisions. Several of the most popular issues are reprinted in the *Census Catalog and Guide*. Others are available from Customer Services at the Census Bureau for a nominal charge. (See the *Census Catalog and Guide* for a complete listing.)

The County and City Data Book (CCDB) is an invaluable published as well as computer readable compendium of socioeconomic data from the most recent censuses of population and housing, government, and agriculture; economic censuses; and other sources. Although it gives little historical data, the CCDB is useful because it provides such a wide range of data for small areas. Data are presented for counties, incorporated cities with populations of 25,000 or more, and incorporated places and MCDs with populations of 2,500 or more. The CCDB is issued periodically. The most recent editions were published in 1977, 1983, and 1988.

The 1988 CCDB presents over 200 data items for counties, including:

• Area and population (1986);

- Population characteristics (1980 and 1984);
- Number and size of households (1985);
- Vital statistics (1984) and health care (1985);
- Nursing homes (1986), social welfare programs (1985), and crime (1985);
- Education levels (1980);

- Money income (1979 and 1985);
- Housing (1980);
- Civilian labor force (1986) and employment by industry (1985);
- Personal income (1984) and farm earnings (1984);
- Agriculture (1982), manufacturing (1982), construction (1986), wholesale trade (1982), retail trade (1982), taxable service industries (1982);
- Banking (1986), federal funds and grants (1986) and local government finances (1982);
- Government employment (1984) and elections (1984).

A sample page from the county table in the *CCDB* is shown in Figure 9.

Roughly two-thirds of these items are also presented for cities with a population of 25,000 or more, and four items are presented for places with 2,500 and over population (1986 population, percent population change 1980-1986, 1985 per capita money income, and percent income change 1970-1985).

The most recent CCDB is available on diskettes as well as in published and microfiche format. The printed version is available from the Government Printing Office for \$36. See Appendix E for information on ordering and using the diskette version.

Information U.S.A. is a private company that publishes helpful reference materials for researchers. In 1986, the company issued the second edition of *Information U.S.A.*, a catalog of information resources in the Federal government. Although some of the material in the book is out of date, it remains an invaluable guide to agencies and experts. The company's other publications include *The Federal Database Finder* and *State Data and Database Finder*. Check your local library or contact Information, U.S.A., P.O. Box 15700, Chevy Chase, MD 20815.

Congressional Information Service (CIS), another private firm, publishes many useful in

								Population					· f	°opulatio srecteris	xn Htica	
MSA/ CMSA/ NECMA code'	_			1986					Components of change, 1980-1986					1964		
	State and county	County	Land					Net cha	nge	Natural in	CT0850		Perce	Percent-		
	C006				area,² 1980 (Sq. m.)	Total persons	- Flank ³	Per square : mile	198D	Number	Perceni	Gàtha	Deaths	Net migration*	White	Black and other
			1	2	з	4	5	6	7	8	9	10	11	12	1	
	28 000	MISSISSIPPI	47 233	2 625 000	×	55.6	2 521 000	104 000	4.1	281 000	149 000	-27 000	63.42	38.58	63	
	28 001 28 003 28 005 28 007 28 009 26 011 28 013 26 015 26 017 28 019	Adams. Alcom . Antie . Benton . Bolivar . Calhoun . Caroli . Chichasaw . Choctaw .	456 401 732 737 407 892 573 634 503 420	38 000 32 600 13 300 19 600 6 500 44 100 15 400 9 700 18 000 6 900	1 019 1 202 2 132 1 708 2 541 920 1 980 2 430 1 609 2 489	85.5 81.3 18.2 26.6 20.9 49.4 26.9 15.3 35.6 21.2	38 071 33 036 19 359 8 153 45 965 15 684 9 776 17 851 8 996	900 -400 -300 300 -1 900 -300 -100 -100 100 -100	2.3 -1.2 6 -1.5 4.2 -4.1 -1.7 -1.1 .6 -1.1	4 300 2 600 1 300 6 300 6 300 1 400 800 2 000 900	2 600 2 000 900 1 500 3 100 3 100 1 000 500 1 100 600	-900 -1 200 -50 -50 -50 -700 -700 -700 -700 -700	51.41 89.00 5 5 35.35 5 5 5 5 5 5 5 5	48.59 11.00 5 5 64.65 5 5 5 5 5 5	- 66 - 9 7 - 66	
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dexes to reports from the Federal government and from states, municipalities, and private companies. The American Statistics Index (ASI), for example, enables researchers to find statistics produced by Federal agencies. ASI classifies statistics by subject, type of data breakdown (e.g., metro/non-metro), and publication title. Many college and university libraries have copies of the ASI. For a free catalog of CIS products, write CIS, Inc., 4520 East-West Highway, Bethesda, MD 20814-3389.

Another helpful reference publication is Federal Statistical Directory: The Guide to Personnel and Data Sources edited by William Evinger. The most recent edition was published in 1987; it lists key staff people who work with or produce Federal statistics. Check your local library or contact Orxy Press, 2214 North Central at Encanto, Phoenix, AZ 85004-1483.

Summary

Together, the Census Bureau, Bureau of Economic Analysis, Bureau of Labor Statistics, and Economic Research Service provide researchers with a core of information about rural communities. The next three chapters illustrate how researchers can use data from these and other, more specialized sources to understand local population and human resources, economies, and governments.

CHARACTERIZING LOCAL POPULATION AND COMMUNITY RESOURCES

During the 1970s, nonmetro counties grew at a faster rate than metro counties for the first time in many decades. Even remote and relatively small rural communities experienced growth. Economists and other analysts interpreted this "population turnaround" as evidence of a brighter future for rural America.

Now the picture has changed. Population growth has slowed substantially in the 1980s and, in recent years, as many as 500,000 people have migrated out of nonmetro counties *each year*. Of course not all communities experienced losses. Those depending on retirement and government (as in Burnet County, Texas and Whitman County, Washington) have generally fared better than those depending on agriculture; mining, and manufacturing (as in Kossuth County, Iowa, Nicholas County, West Virginia, and Coos County, New Hampshire).

To provide public facilities and services, community leaders need to know the characteristics of the local population, such as how large it is and what its age structure is. To strengthen and diversify their local economy, leaders need to understand their community's resources, such as how educated the population is, how many people are working, and how income is distributed. This chapter explains how researchers can find information like this using data from the Bureau of the Census and other Federal and State sources.

The General Population

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Demography—or the science of population is concerned with the size, geographic distribution, composition, and change of human populations (27). Demographic change in a community depends on the population's characteristics (for example, the number and age of local residents) as well as on broader social and economic trends in the nation as a whole (such as increased female labor force participation or improved standards of living).

Demographic change affects the local economy by shifting the demand for goods and services. For example, if the number of families with young children increases, the community may need more day care facilities, classroom space, and teachers. Conversely, if the number of elderly people grows, the community may need specialized transportation, more geriatric care, and a new nursing home. People in communities need to understand these changes so they can plan for future development.

The broad question that community researchers need to ask is—what is happening to the size and characteristics of the local population and why is it happening? Some of the specific questions they might ask are:

- What is the age distribution of the local population and how is it changing?
- Are any specific groups of people likely to increase or decrease in number?
- Are people leaving the community in greater numbers than they are coming in?
- Where are they coming from and going to?

In between the decennial censuses, the first place to look for answers to questions like these is the Current Population Reports Series P-26 from the Bureau of the Census. The reports in this series
Table 1 The Cens Estimates	sus Bureau Works with Individual States to Make Annual Population Is for all U.S. Counties							
County	April 1980 (census)	July 1981 (est.)	July 1982 (<i>est.</i>)	July 1983 <i>(est.)</i>	July 1984 (<i>est.</i>)	July 1985 (<i>est.)</i>	July 1986 (<i>est.)</i>	July 1987 (est.)
Attala, MS	19,865	19,900	19,600	19,300	19,400	19,500	19,600	18,800
Burnet, TX	17,803	18,400	19,300	20,400	21,700	22,800	23,900	24,600
Coos, NH	35,147	34,600	34,400	.33,900	33,900	33,900	34,000	34,400
Kossuth, IA	21,891	21,700	21,400	21,400	21,400	21,000	20,300	19,900
Nicholas, WV	28,126	28,400	28,600	28,200	28,200	28,200	28 ,40 0	27,900
Whitman, WA	40,103	40,400	39,600	38,600	40.000	40,100	40,700	41,100
est. = estimate made	by the Censu	ıs Bureau						
Sources: U.S. Department of Co	mmerce, Bureau of t	he Census (45) c	ind (<u>42</u>).					

are a product of a cooperative Federal and State program that estimates the population of states, counties, and metropolitan areas annually and the population of places and other governmental units every two years. The reports are published separately for each state, two to three years after the reference period. The estimates are benchmarked on census data (that is, census data are used as reference points) and are developed using administrative records from state health departments, the Internal Revenue Service, and other agencies.¹

Table 1 uses Series P-26 data to show 1980– 1987 population levels for the six sample counties. According to these estimates, the retirement and government counties (Burnet and Whitman) gained population while the persistent poverty, manufacturing, farming, and mining counties (Attala, Coos, Kossuth, and Nicholas) lost population. How did it happen that two counties gained and four counties lost population between 1980 and 1987? To answer this question we look at two components of population change—natural increase and net migration.²

Natural increase is the difference between the number of births and deaths that occur in a given area.³ Fertility, population age structure, and life expectancy all affect the rate of natural increase. All other things being equal, a younger population will experience greater natural increase than an older population.

Table 2 shows the 1980–1985 components of population change for the six sample counties, again using P-26 data. All six sample counties experienced natural increases in population. They did not all gain population, however, because of *net migration*, the second and most variable

County	April 1980 (census)	Resident Births	Resident Deaths	Net Natural Change	Net Mi Number	gration Percent	Net Total Change	July 1985 (<i>estimate)</i>
Attala, MS	19,865	1,500	1,300	200	- 500	- 2.7	- 300	19,500
Burnet, TX	17.803	1,500	1,300	200	4,800	26.9	5,000	22,800
Coos, NH	35,147	2,300	2,000	300	- 1,600	- 4.5	- 1,300	33,900
Kossuth, IA	21,891	1,800	1,100	700	- 1,500	- 6.9	- 800	21,000
Nicholas, WV	28,126	2,100	1,300	800	- 700	- 2.7	1,500	28,200
Whitman, WA	40,103	2,600	1,100	1,500	- 1,500	- 3.6	3,000	40,100
Sources: U.S. Department of	Commerce, Bureau	of the Census (45	i) and (42).					

Table 2 Both Natural Increase and Net Migration Contribute to Population Change

Census Bureau and other population estimates should be used with care:

In his article. How to Evaluate Population Estimates. William O'Hare of the Population Reference Bureau provides the following rules of thumb about county and subcounty estimates (22):

- Moderately growing populations can be estimated more accurately than rapidly growing or declining populations.
- Averaging several population estimates (from private data companies, for example) is usually more accurate than relying on only one estimate.
 - Adjusting estimates to match an independently, derived, control (otcl reduces error. This means that population estimates for counties within a state, for example, are more reliable if they are forced to sum to an estimate of the state population that has been derived independently.

It is easier to estimate changes over a short period of time than over a long period of time

The populations of smaller places are more likely to be overestimated than the populations of larger areas

component of population change. Net migration is the difference between the number of people who move into an area and the number who move out. Migration is affected by the economy in the form of employment opportunities—newcomers are attracted by a growing economy that provides more jobs, while people are likely to leave and look for jobs elsewhere when the economy is shrinking.

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Starting in 1982, nonmetro counties in the United States began losing population again as people migrated to metro counties. According to data from the Current Population Survey, about one million more people moved out of nonmetro counties between 1982 and 1986 than moved in (8). Consistent with this trend, five of the six sample counties experienced net out-migration between 1980 and 1985 (Table 2). Only in Burnet County (which is attracting thousands of retirees) was the number of people moving in greater than the number moving out.

Natural increase and migration work together to determine net total change. In two counties, Nicholas and Whitman, natural increase was large enough to compensate for net out-migration between 1980 and 1985; therefore population increased. In Attala, Coos, and Kossuth Counties, out-migration exceeded natural increase, resulting in a negative net change. Burnet County experienced natural increase *and* net in-migration

Knowing where people are moving from and to can help a community or a state prepare for the future.

For example, if people, are migrating to retirement: communities in the Sun Belt community leaders might inv. to offer better services for the elderly if on the other hand, people are leaving to find jobs in urban, areas, the best strategy might be to give more support to businesses that expand job opport to businesses that expand job opport to discourage workers, from going elsewhere

Using its master file of all income taxieturns the internal Revenue Service counts the number of in- and out-migrants to and from all U.S. counties (and states), for eveny two-year period. For each county: the agency calculates, how many people moved in (and where they came from) and how many moved out (and where they went). Computer printouts of these data are available for \$4,00/county from the Director. Statts tics of Income Division. IRS. ILED Constitution Avenue: N.W. Washington, D.C. 20224 (202) 376-0218

and therefore its total population increased over 25 percent.

Because age distribution is such an important factor in explaining both population change and the kinds of goods and services that local residents need, most states make county-level age group estimates in between the censuses. A common way of presenting these data is to use an *age pyramid* such as the one in Figure 10. Here, data from the Texas and Washington State Data Centers are used to illustrate the very different age structures in Burnet and Whitman Counties. Burnet, the retirement county, has a large proportion of people aged 60 and older. Whitman, the specialized government county, is home to Washington State University, and therefore has a large proportion of people aged 15–24.

Education

Education is an investment that brings with it potential economic returns both to the individual and to his or her community. Rural communities are paying particular attention to education in the 1980s as they strive to improve the quality of the local labor force, attract new industries, and diversify their economies.

Education-related questions that people in a community often ask concern attainment, enrollment, finance, and achievement. For example:

- How many adults have completed high school? How many have completed four years of college?
- Is school enrollment changing so that we are likely to need fewer (or more) schools and teachers?
- What percent of the community's school system revenues comes from local sources?
- How well do the test scores of local students measure up to students' scores in other communities?

Attainment data measure years of school completed. For substate regions, they are available only from the decennial census and are pro-





vided for persons 18–24 and those 25 years of age and older. The Census Bureau tabulates attainment data by a variety of demographic characteristics (including sex, race, and rural/urban residence status). Figure 11 illustrates how these data can be used.

As we can see, the population of Attala and Whitman Counties differs dramatically in terms of educational attainment. In Attala, the persistent poverty county, almost one fourth of adults aged 25 and over have completed fewer than eight years of school and only nine percent have finished college. In Whitman, the government county whose economy is largely dependent on a state university, only two percent have completed fewer than eight years of school and 37 percent have completed college.

In addition to knowing how well educated its adults are, a community also needs to be aware of conditions in its local school system. For example, they may want to know how many children are currently enrolled in public schools.

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The best place to get up-to-date enrollment data for a particular community is the local school

system. Researchers who want historical data or who want to compare data from different areas can use the *County and City Data Book* (*CCDB*). Alternatively, they can contact an agency within the U.S. Department of Education called the National Center for Education Statistics (NCES). NCES collects enrollment data from the states and publishes state totals in their annual report, *Digest* of Education Statistics. District-level data are available from NCES on a paid request basis.

Table 3 shows 1980–87 enrollment data from the *CCDB* for the six sample counties. Burnet, which grew the fastest of the sample counties during this period, also reported the only increase in public school enrollment.⁴

Finance is another important education issue. In their study of education in Kentucky, the Mountain Association for Community Economic Development (MACED) found that the quality of education is related to how much local money the community is able to put into its school system. The highest quality educational systems are those in which local funding comprises a high proportion of the school budget (<u>19</u>).

Table 3	The Census Bureau Publishes School Enrollment Data in its County and City Data Book							
	Public	School E	nrollment					
County		1980	19 86- 87	Percent Change				
Kossuth, IA	\	3,575	2,591	- 28				
Attala, MS	i	4,057	3,410	- 16				
Coos, NH		6,849	4,845	- 30				
Burnet, TX	:	3,405	4,469	31				
Whitman,	WA	5,288	4,646	- 21				
Nicholas, V	WV [°]	6,492	5,640	- 13				
Source: U.S. Dep	artment of	Commerce, B	ureau of the Censu	s (4))				

The Census Bureau collects some school finance data in the Census of Governments which is conducted in years ending in "2" and "7." The *Compendium of Government Finances*, for example, reports total and per capita expenditures on education and libraries. (See Chapter 5.)

Communities can get more detailed finance data from their state education agency. Specifically, this agency should be able to provide district-level information about how much school funding comes from local, state, and federal sources, and how much money is spent per pupil on materials, administration, and instruction. (NCES publishes similar data at the state level.)

"Making Sense of School Budgets: A Citizen's Guide to Local Public Education Spending"

The primary Federal Bource of education data is the National Center for Education Statistics (NCES) NCES is housed. In the Office of Educational Research and Improvement (OER) in the Department of Educations' Information Services another division at the OER includes direquests for data generated by NCES if you want information about includes for want information about includes for want information about includes for educations and the algorithmetion about includes for want information about includes for educations and the algorithmetion about includes for a section for the matter section 1 call the algorithmetic (800/424-1616) to have your game placed on the mailing list-for tree plablic entions is a booklet that explains the data available in most school budget statements. It also identifies ways to locate information those statements may not provide. The booklet is published by the U.S. Department of Education and is available for \$1.75 from the Superintendent of Documents, U.S. Government Printing Office (stock number 065-000-00382-1).

The last type of education data that community researchers may be interested in concerns students' achievement or proficiency in various skills. These data come from standardized tests (the Scholastic Aptitude Test, for example) and are usually collected for individual districts by State education agencies. People who want to compare their district to larger areas should consult the NCES report *Digest of Education Statistics*.



Labor Force

Economic development in a community is governed partly by the number and characteristics of people who work and the types of jobs they do—whether they are secretaries or doctors, mechanics or librarians. (Development also has much to do with the industries that employ local residents. Industrial structure is discussed in Chapter 4.)

The rate at which people enter the labor force and find productive jobs is an important determinant of a community's economic well-being. Questions that community leaders might ask about the local labor force include: How many people are either working or looking for work?

Are certain groups of people either coming into or leaving the labor force?

What is the occupational make-up of the local labor force?

The first place to look for detailed local labor force data is the decennial census. The Census Bureau classifies all persons who are at least 16 years old as either in the labor force (that is, in the armed forces, employed in the civilian labor force, unemployed, or actively seeking employment) or out of the labor force. County (and some subcounty) data are reported by sex, race, type of community (rural/urban), and type of residence (farm/nonfarm). Table 4 illustrates how these data are presented for Nicholas and Kossuth Counties. As we can see, for example, the percent of young males who are unemployed is smaller in Kossuth than in Nicholas County.

Table 4 The Decennial Provides Demo about the Loca	Census graphic I Labor F	Details orce
	19	80
Item	Nicholas - County	Kossuth County
Persons 16 years and older Armed Forces Clvillan labor force Percent of persons 16 years and over ^a Employed Unemployed Percent of civilian labor force Not In labor force	20,183 16 9,610 48 8,492 1,118 12 10,557	16,176 5 9,553 59 8,924 629 7 6,618
Males 16 to 19 years Employed Unemployed Percent of males 16 to 19 years old who are in the labor force and unemploye Not in labor force * Labor force participation rate	1.018 283 106 ed 27 629	906 400 62 13 444
Source: U.S. Department of Commerce, Burea	u of the Census	ദ്ധ

Figure 12 The Decennial Census Provides Detailed Information on the Types of Jobs **People Have**





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The labor force participation rate—that is, the percent of people who are working or looking for work—is one indicator of potential economic growth. A low rate suggests that increased job opportunities could draw more people into the work force, while a higher rate indicates that few additional people may be willing or able to work. In Nicholas County, the labor force participation rate for persons 16 and older is 48 percent. In Kossuth, it is 59 percent.

The decennial census also provides extensive detail on characteristics of employment, including over 30 occupational groups (types of jobs), 40 industry groups (types of employers), and six classifications of weeks worked per year. These data give researchers their most precise picture of where and how much people are working.

Figure 12 shows how we can use occupational data from the decennial census to compare jobs held by rural and urban residents in Whitman County. As we can see, rural people are more likely than urban people to have blue collar occupations such as operatives (machine operators), service jobs, and agricultural and forestry occupations.

More up-to-date data about labor force status are available at the county level from the Bureau of Labor Statistics (BLS), which estimates the size of the total labor force, as well as the number of people employed and unemployed, on a monthly

The decennial census is our *only* source of county data on employment by occupation.

Many states supplement census oce cupation statistics with state-level estimates contact your state employment security agency for more information (See Appendix D. for phone numbers)

and annual basis. These statistics are issued several months after the reference period on microfiche in the series *Employment and Unemployment in States and Local Areas*. Table 5 illustrates how these data are presented for Kossuth County.

The Federal government allocates funds for its employment and economic development programs on the basis of BLS unemployment estimates like those in Table 5. BLS works with the states to make these estimates. Estimation procedures are explained in each issue of the periodical, *Employment and Earnings*. BLS cautions data users about using its estimates for historical analyses, particularly at the county level or over time periods during which the agency has changed its data collection methods.

In addition to being available on microfiche, recent BLS county-level labor force estimates are also published in the *County and City Data*

Book	and	in	reports	by
State e	emplo	oyn	nent secu	rity
agenci	ies.			

Table 5	BLS Works with the States to Make Labor Force
	Estimates for Counties

Kossuth	County,	January -	June;	1987
---------	---------	-----------	-------	------

	Persons in labor force	Employed persons	Unemployed persons	Unemployment rate°
January	9,100	8,355	745	8.2
February	9,208	8,503	705	7.7
March	9,384	8,771	613	6.5
April	9,639	9,098	541	5.6
May	9,877	9,411	466	4.7
June	10,274	9,741	533	5.2
•Percent	of persons in th	ne labor force	who are unema	bloved

Source: U.S. Department of Labor, Sureau of Labor Statistics (60)

Income

Income statistics are widely used measures of economic well-being. Which statistic a researcher uses depends on his or her particular research question. For example, community leaders might want to know:

How much total income does the commu-

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BLS publishes up-to-date labor force data for the nonmetro and rural population in the quarterly report called Employment and Earnings BLS's annual report. Geographic Profile of Employment and Unemployment containsistate level labor force and demographic color that allow researcheiste answei auestions about the characteristics of people who are working and of those who are unemployed, and questions about occupations and industries in which the unemployment rate is especially high. Check the depository library nearest you for these publications.

nity receive? What is the average per capita income?

- How evenly is this income distributed among local residents?
- Where does local income come from? Do people earn it, receive it from the government, or does it come in the form of property income (like interest)?

To answer questions like these, community researchers need to understand what income statistics actually measure.

Personal income, a statistic reported by the Bureau of Economic Analysis, is the broadest income concept. BEA defines the total personal income of an area as the income received by, or on behalf of, all the residents of that area, including both earned income (such as wages) and unearned income (such as interest). BEA's total personal income estimates measure how much money local residents have available to spend before taxes (for example, state and Federal income taxes and individual contributions to Social Security).

Total personal income is not a measure that indicates how individuals or families are faring, however. In-so-far as an increase in total personal income can be accounted for by an increase in population, the rise in income is explained by population gain. Thus we use *per capita* personal income (total income divided by population) to indicate the relative level of an area's income, controlled for the population of the area.

The Census Bureau uses a different concept of income, that is, *money income*. Money income is the sum of all cash income, including wages and salaries, net self-employment income, interest, dividends, rent, Social Security payments, public assistance, and other minor types of income. Earnings income is reported before personal income taxes, Social Security, etc.

The Census Bureau reports both *median* and *mean* family income. Median income is the middle level, that is, the money income level at which half of the population have lower incomes and half have higher incomes. Mean income is the average amount of income received by each family (total money income divided by the number of families).⁵

BEA's personal income is more comprehensive than Census Bureau's money income for two reasons. First, personal income is based on administrative government records, while money income is based on income reported by individuals (and households or families) in response to surveys or censuses. Money income, therefore, depends on accurate estimates by the respondents. Second, personal income includes some noncash components, such as the value of fringe benefits received by workers but paid by employers; and return on investment in an owner-occupied home. Because of these differences, personal income estimates for an area are usually higher than money income estimates.

Another widely used income measure is the percent of the population (individuals or families) that have money income below the poverty level the so-called *poverty rate*. Each year, the U.S. Office of Management and Budget (OMB) establishes a series of poverty income thresholds for different family sizes, ages of household heads, and geographic locations. These poverty income levels come from an index developed in 1964 at the Social Security Administration. The index is

based on evidence from USDA's 1955 Survey of Food Consumption that families with three or more people spend roughly one-third of their money income on food. Hence, the poverty level for these families was set at three times the cost of the so-called economy food plan, with modifications for smaller families. Many analysts consider this method of measuring poverty to be outdated (in part because of the assumption about how much money is spent on food), but they have not been able to agree upon a more satisfactory method.

Each year, OMB revises its poverty thresholds to reflect changes in the Consumer Price Index (CPI). Because the poverty level is revised annually, it is the only income measure that reflects the effects of price changes (either inflation or deflation). Hence, researchers can compare the poverty rate from one time period to the next. Other income measures may or may not be adjusted to reflect inflation, so researchers always need to find out whether they are expressed in real (sometimes called constant) dollars which are adjusted by an index such as the CPI, or in current, unadjusted dollars.

Furthermore, researchers should note that income measures are rarely adjusted by an index that reflects price changes in individual regions or subpopulations. The CPI, for example, is derived at the national level.6

come measures at the county level-mean income, median income, and percent below poverty. Data are provided for persons, families, and households. These particular county-level statistics are only available every ten years and are not available from any other public source.

As noted above, the Census Bureau collects estimates of money income from survey respondents, who often underestimate dollar amounts. Money income excludes nonmonetary income, such as the value of food stamps, housing subsidies, and employers' pension contributions. It also excludes "one-time" income such as loans and revenues from the sale of property.

Table 6 illustrates how researchers can use Census data to find out how many people have money income below the poverty level and who these people are. In 1979, 31 percent of all persons in Attala County had incomes less than the poverty level (compared to 12 percent nationwide). Poor people in Attala County were disproportionately black. Farm residents were less likely to be poor than other rural residents.

Note that the data in Table 6 refer to 1979, the year before the most recent decennial census. This is because respondents answered the question, "What was your total income from all sources in the last year?"

In between the decennial censuses, the Census Bureau publishes its irregular P-26 series, Local Population Estimates. Reports in this series in-

In summary, there are several commonly used

income statistics-total. and per capita personal income, mean and median money income, and the poverty rate. The following section illustrates how these statistics are reported.

Bureau of the Census

Based on sample data collected in the decennial census, the Census Bureau estimates three money in-

	Attala County, Mississippi: 1979					
	Total	White	Black	Rural	Farm	
Total number of persons	19,646	11,962	7,661	12,439	847	
Persons with income below poverty Poverty rate	6,148 31%	1,772 15%	4,353 57%	4,105 33%	144 17%	
Total number of families	3,637	3,320	1,643	5,285	295	
Families with income below poverty Poverty rate	680 19%	833 25%	1,027 63%	1 .269 24%	46 16%	
Source: U.S. Department of Commerce, Bu	reau of the Cere	sus (<u>5)</u>)				

Characteristics of Poor People

The Decennial Census Provides Small Area Data on the

Table 6

In between censuses, we often want to know the poverty rate for areas smaller than those presented in Census Bureau publications.

Researchers use several techniques for estimating these statistics. Some start with decennial census data which mey use to determine the social and eco nomic characteristics associated with being poor. Then they make more current, county estimates based on the presence.of.these.particular.characteristics in the local population. Others use data from the Current Population Survey to make estimates, either for one specific year at the state level or for a several-year average for specific demographic groups in individualistates (See (17) (25) and (25) for examples of these techniques.)

All of these analyses should be legarded with caution. They are estimates and are subject to valious sources of error. Nevertheless, they are useful as approximate measurements and may be very helpful in guiding program and policy development in the absence of more precise statistics.

clude per capita money income estimates for counties and subcounty areas (incorporated places, townships, and other minor civil divisions). The Census Bureau bases these estimates on a combination of data from the decennial census, IRS income tax returns, and estimates from the Bureau of Economic Analysis. Researchers can use these per capita income estimates to compare their own community to others and to learn about general trends. As small-area estimates, however, the statistics should be used very carefully.

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Census Bureau reports its larger-area intercensal income estimates in *Consumer Income*, Series P-60. These reports are based on the monthly Current Population Survey. They provide information about people at various income levels, and on the relationship of income to age, sex, race, family size, education, occupation, and other characteristics.

Bureau of Economic Analysis

The Bureau of Economic Analysis also reports income data that are useful for analyzing nonmetro counties. These county-level data are byproducts of BEA's responsibility to monitor and *Consumer Income* (Series P-60 from the Consus Bureau) is the single best source of intercensal income estimates for individuals; families, and households in the United States.

Based on the monthly Current Population Survey, Consumer Income lefs us follow trends in the level and distribution of income, and in the characteristics of people at different income levels. All estimates are presented for the notion as a whole, and selected estimates appear for regions and by metro/non metro ond form/nonform residence Researchers Interested in poverty-tor example, can refer to such reports as Poverty in the United States and Cheracteristics of the Population Below the Poverty Level: Some of the questions that can be answered using these up to-date reports are:

 How does the poverty rate in ponmetro counties compare to that in inner cities?

 Are form families more or less likely to be poor than nonform tamilies?

 What are the demographic characteristics of people who are most-likely to be poor? For example, which region (South or Nonsouth) do they live in how large is their family and how old are they?

P-60 reports are issued periodically. Some reports come out annually (for example. Money income and Poverty Status of Families and Persons in the United States) while others are less frequent. You, can purchase individual reports from Customer Services of the Gensus Bureau of order a one-year subscription from the Government Printing. Office for \$47

measure the performance of the national economy.⁷ The agency's county estimates are widely used to evaluate the impact of public programs, allocate Federal funds, project tax revenues, and evaluate markets for new products. Community researchers can use the estimates to measure and track income received by the local population and as a framework for analyzing the local economy.

BEA publishes an annual fivevolume series called *Local Area* Personal Income (LAPI).

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LAPI contains tive years of data on total and periodotta personal income income by type, and earnings by type and major industry. Data are presented for the United States, eight BEA regions states and counties, Earnings data are published at the two-aligit SiC tevel for states and hexate Sight level for counties. (See page 20 april 1999) for counties. (See page 20 april 1999) for counties. (See page 20 april 1999) for counties. (See page 20 april 1999) for states are component estimates of transfer payments, form income and espenditures and julk and part-time employmentary of a fait sector transfer uncublished county data are available from BEA User Groups in each state and states the REIS pt (2027;523-0966)

Each year, and for all counties, BEA estimates total personal income, which is current income received by residents from all sources. The agency measures personal income *before* taxes (like the Census Bureau) but *after* contributions to various retirement programs. Unlike the Census Bureau, BEA includes some noncash income such as food stamps and employer-paid health insurance. The agency reports personal income by source on a "place-of-residence" basis. This means, for example, that income data are reported for people who *live in* Coos County, not for people who *work in* Coos County. (The two groups of people are different if workers commute into or out of the county.) The major categories of income included in the BEA data are:

- *Earnings* (wage and salary income, proprietors' income from farm and nonfarm sources, and various employer contributions);
- **Personal investment income** (dividends, interest, and rent); and
- Transfer payments (retirement-related, unemployment insurance, public assistance, and miscellaneous).

BEA obtains the bulk of its wage and salary data from tax and statistical records supplied by State employment security agencies. Aggregate data on nonfarm proprietors' income are obtained primarily from the Internal Revenue Service. (The IRS does not release individual tax returns.) Farm proprietors' income estimates are based on IRS aggregates, Census of Agriculture county data, and selected annual county data prepared by the state offices affiliated with USDA's National Agricultural Statistics Service.

BEA estimates data on transfer payments, investment income, and proprietors' income on a "place-of-residence" basis. It estimates data on other components of earnings (wages and salaries, other labor income, and employer contributions) on a "place-of-work" basis. To reconcile these differences, the agency makes adjustments that reflect the intercounty commuting patterns reported in each decennial census.

The advantage of BEA data is that they are comprehensive, reported in great detail, and readily accessible, both in published form and through BEA User Groups. The disadvantage is that they are based on administrative and survey data collected by other agencies, and hence reflect an assortment of complex adjustments. Researchers can call REIS staff at (202) 523-0966 for information about how various adjustments are made.

Figure 13 shows how researchers can use BEA personal income data to better understand the relative importance of various income sources. For example, in both Burnet and Kossuth Coun-



ties, 1986 per capita personal income was just under \$14,000, but the makeup of that income was quite different. In Burnet, the retirement county, unearned income (such as dividends, interest, and government transfer payments) made up more than half of per capita personal income. In Kossuth, the farming county, unearned income was less important, and earnings made up about 62 percent of per capita personal income.

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BEA also makes available detailed component estimates of transfer payments on a county basis (through User Groups or by paid data request). Community leaders and development practitioners are becoming more aware of the economic stimulus provided by government transfer payments, including retirement income and welfare benefits. BEA data can help provide a perspective on the relative importance of various types of transfer payments. Figure 14 shows, for example, that government retirement and disabil-

ity insurance is the largest component of transfer payments in Burnet County, accounting for 60 percent of total government transfers. Income maintenance payments (such as public assistance) are a small component, accounting for only about 2 percent.

Social Security Administration

The Social Security Administration (SSA) regularly publishes the number of Old Age, Survivors, and Disability Insurance Program (OASDI) beneficiaries in each state and county, and the aggregate dollar amount of benefits by type. SSA reports these data based on a 10 percent sample every six months, and based on a 100 percent sample every 12 months. Community researchers can use these data if they want more detail on retirement and disability income than BEA provides. (BEA reports the same data in LAPI, but in less detail.)

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The publication Social Security Beneficiaries by State and County is free, and can be obtained by writing to The Division of Statistical Analysis, 205 Annex SSA, 6401 Security Blvd., Woodlawn, MD 21235. Refer questions about methodology to staff at (301) 965-5501.

Housing

Several studies indicate that substandard housing is more common in rural areas than in urban areas.⁸ But measuring the quantity and quality of rural housing in small communities is complicated by a lack of data. The Census Bureau, for example, only reports information on housing units that are occupied year-round, and thus neglects migrant farmworker housing. Further, the Census Bureau limits its questions on housing quality to inquiries about the presence of selected facilities and equipment. Broader indicators of housing quality such as structural deficiency—are available only from the American Housing Survey (AHS). Unfortunately, the AHS sample is too small to provide geographical detail for particular rural communities. ليليل الفنانجي مينافسانقليت

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Evaluating the quality of rural housing is also limited by our inability to define and objectively measure what constitutes "substandard." The Housing Assistance Council notes, for example, that while the number of rural housing units without plumbing facilities and the number that are overcrowded has clearly declined in recent years, the number of mobile homes has increased dramatically. The Council suggests that mo-

bile homes may not be substandard in the traditional sense, but the national standards that regulate their construction do not uniformly guarantee durability or thermal protection. Hence mobile homes are often of lower "quality" than conventional housing (<u>14</u>).

With these shortcomings in mind, researchers can begin to describe the quantity and quality of rural housing. In trying to design effective housing development strategies, community leaders might ask the following questions:

- Do the number and characteristics of local housing units meet the needs of residents?
- Do residents own or rent their homes?
- What is the quality of local housing and how has it changed in recent years?

In general, the data researchers use to answer these questions are available from the decennial

Characterizing Local Population and Community Resources 41

The American Housing Survey (AHS) is a good source of larger-area rural housing data.

The AHS is conducted jointly by the Office of Policy Development and Research U.S. Department of Housing and Urban Development and the Bureau of the Census. An extra sample is taken every four years to provide urban/rural and metro/nonmetro cross-tabulations by geographic region. The AHS is particularly useful in that it provides more data on housing quality than does the decennial census. AHS reports are published, blennially on a regional basis in the Census series H-150.

census. In between censuses, local planning and/ or community action agencies can often provide more up-to-date information.⁹

The first place to look for information about the number and characteristics of local housing units is the decennial census. According to the Census Bureau, a housing unit is "a house, apartment, flat, mobile home, a group of rooms, or a single room, occupied or intended for occupancy as separate living quarters; that is, the occupants do not live and eat with any other persons in the building, and there is direct access to the unit from the outside or from a common hall" (49). The Census Bureau will tabulate a complete count of all housing units from its 1990 census and this count will be available down to the block level. All respondents will be asked whether they live in a mobile home or trailer, one-family house, or apartment building.

Community researchers can make more current estimates of housing numbers by updating census data with other sources of information.



They can get information on the number of building permits issued from either the *CCDB* or state sources. For example, the New Hampshire Office of State Planning (NHOSP) regularly updates Census figures using residential building permits and annually publishes estimates of the housing numbers in each township (21). Figure 15 shows the NHOSP data for Coos County.

NHOSP estimated that the number of housing units in all three categories—single family, multifamily, and mobile homes—increased between 1980 and 1986. The Census Bureau, on the other hand, estimated that the number of people in Coos County decreased during this period (Table 1). More research might help us decide whether these divergent trends were due to fewer people living in each housing unit, the construction of vacation homes, or some other factor.

After learning about the number and characteristics of local housing units, the next thing community researchers may want to measure is the quality of housing in their community. The size of housing units relative to the number of occupants is one commonly used measure of quality. Small area data on overcrowding (defined as more than one person per room) are available from the decennial census on a complete count basis.

The presence and condition of particular facilities and equipment are also frequently used indicators of housing quality. The most widely used and objective measure is the presence of complete indoor plumbing facilities for exclusive use of the household because lack of plumbing facilities is usually associated with substandard housing.¹⁰ Other facilities and equipment that may indicate housing quality are complete kitchen facilities, telephone, central heat, and public water hook-up. Care should be used in interpreting these indicators however, as none is by itself a complete measure of housing quality. Relevant data are available from the decennial census for small areas (on a sample basis from the 1990 census) and from the American Housing Survey for regions.

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Health

The two major health issues facing rural communities are: (1) the health status of the population and (2) access to health resources, that is, to health care providers, facilities, and services. Public concern about these two issues has increased in recent years because researchers are documenting the effects of poverty and environmental pollution on health and because rural health care providers face growing financial problems.

State health departments typically collect health status data. Another, more comprehensive and accessible source of data on rural health status and resources is the Area Resource File (ARF) system, which is maintained by the Health Resources and Services Administration (HRSA) of the U.S. Department of Health and Human Services.¹¹ The ARF was developed in the early 1970s to help DHHS analyze the distribution and adequacy of health resources in the United States. The system is intended to be up-to-date, accurate, and flexible so that it can be used by the broadest possible range of users, including researchers, policy makers, planners, and program managers.

The ARF is a computerized, county-based system compiled from over 200 sources of health data. It typically includes between 7,000 and 9,000 data elements at any one time. HRSA created the current ARF with secondary data available through August 1985. The agency also has an "update" file with more recent data that have become available since 1985.

What makes the ARF system so valuable is its depth. In addition to data on health resources, vital statistics, Medicare expenditures, and health professions education, the system also includes demographic, economic, and environmental data. Hence, researchers and local decision makers can examine both the health condition of local populations and various factors associated with health status, such as income, climate, population density, and race.

ARF is distributed through the NTIS on IBMcompatible microcomputer diskettes, on tapes, and in hard copy. The diskette version contains about 2,000 pieces of information in four series: the Demographic Series, the Health Facilities Series, the Health Professional Series, and the Update Series. In addition to county identifier codes, the following types of data are available (date of most recent data, including update, is indicated in parenthesis):

Demographic

- Environmental characteristics (1976)
- Population (1985)
- Births and infant deaths by race (1984)
- Income (1984)
- Education (1980)
- Employment statistics (1980)
- Housing (1980)

Health Facilities

Population characteristics (1982) Hospital characteristics including facilities, bed counts, admissions, services, etc. (1985) HMO information (1983) Nursing home data (1980)

Health Professions

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Physicians by specialty (1985) Dentists (1981) Nurses by specialty (1980) Veterinarians (1980) Other health professions (1980) Health shortage areas (1981) Health professions training (1986)

In each series, there is a diskette for all counties within a state. In other words, to get all four series (including the update) for all counties in a given state, the user orders four diskettes from NTIS. Currently, each diskette costs \$50. Table 7 illustrates the type of data that are included in the ARF.

Consider the example of a community researcher who wants to know whether predominantly black counties have adequate local health facilities. She could select two variables to study: the number of beds in local hospitals and the racial Table 7The County-based Area
Resource File from the Depart-
ment of Health and Human
Services Includes Health,
Demographic, Economic, and
Environmental Data

item	Attala County Mississippi	Kossuth County Iowa
Population by race (1980)	40.79	00.69
Black	30.1%	0.0%
Other	0.2%	0.5%
Number of hospital beds		
1976	82	40
1985	78	40
General practitioners per		
1976	26	36
1985	42	28
Infant mortality rates ^a		
White	7.4	3.4
Black	20. 3	—
• Infant deaths per 1,000 Infant	births (1984)	
Source: U.S. Department of Health and Hi	uman Services, Healt	h Resources

makeup of the population. First, in order to identify predominantly black counties, she uses the Demographic Series which includes 1980 (and earlier) county-level population data by race (from the Bureau of the Census). Next, limiting her review to the counties selected in the first step, she consults the Health Facilities Series, which includes 1983 (and earlier) hospital bed data from the American Hospital Association Annual Survey. (These bed data are presented by type, such as obstetrics, acute care, pediatric, and



burn care, so she can find out whether hospitals in some areas specialize in particular services.) If she wants more recent information, she uses the Update Series which currently includes 1985 hospital bed data.

If the community researcher in our example does not have access to a microcomputer, she can find selected ARF data in paper copy and microfiche. These products, which are called "ARF Profiles," tend to be less current than the diskette files, but they are sufficient for basic description and analyses. They are issued as two separate reports for each state and its individual counties: "Selected Geographical Resources," which is a two-page summary for each county of over 150 measures of health resources and "Geographic Trends in Resources," which includes data on physicians; population and vital statistics trends; trends for all health resources; and detailed information on physicians by specialty.

Notes

- Estimation methods are discussed on pp. 1-2 of each P-26 report.
- 2. For an excellent discussion of factors that affect these processes, a graphic presentation of local population change, and a list of population references, see "Population Change in Local Areas," by Annabel K. Cook (10).
- 3. In the very few areas where deaths outnumber births, this becomes *natural decrease*.
- 4. CCDB presents these data on the basis of the county in which the district school superintendent's office is located. Because some districts cross county lines, the county affiliation is not always accurate.
- 5. Household income is sometimes used instead of family income. A "household" consists of all people living in a single dwelling, whereas a "family" consists only of related individuals.
- 6. BLS actually derives an index of price change for two population groups—one for urban consumers (CPI-U) and one for urban wage earners and clerical workers (CPI-W). The CPI-U is used to adjust income figures. No:specific accounting of price change for rural consumers is made. For more information, see "Major Programs, Bureau of Labor Statistics" (59).
- 7. BEA issues its national estimates of personal income first, on a monthly basis, within a few weeks of the end

of every month. State-level personal income estimates are issued on a quarterly basis, approximately two months after the end of the previous quarter—at which time the national estimates are already being revised. State-level annual personal income estimates are issued about six months after the end of the calendar year, with estimates for several previous years revised at the same time. Finally, county-level estimates are released about 18 months after the year to which they refer, at which time the estimates for several previous years are also revised.

- Rural America in Passage: Statistics for Policy (20) and "Taking Stock: Rural People and Poverty from 1970 to 1983," (14). In their recent report "Rural and Urban Housing, 1930–80," Kampe and Roman report that the gap between rural and urban housing has narrowed significantly in recent years (16).
- 9. For more information, see "Housing Data Resources: Indicators and Sources of Data for Analyzing Housing and Neighborhood Conditions" (48).
- 10. Complete plumbing facilities include hot and cold piped water, a flush toilet, and a bathtub or shower.
- 11. This discussion is based on "The Area Resource File— A Brief Look" (28), "The Area Resource File (ARF) System" (57); and on personal communication with HRSA staff.

CHAPTER 4

UNDERSTANDING THE ECONOMIES OF RURAL COMMUNITIES



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Overview of Local Economic Structure

Our six sample counties reflect the diverse economic makeup of rural America, as we can see in Figure 16. Effective development work in rural communities like those in the sample counties depends on a thorough understanding of local economic structure. In order to evaluate alternative development strategies, citizens and decision makers need to know the relative contribution that various industries make to the local economy. They also need the means to track industries over time so they can identify important cyclical and structural changes. Questions that researchers often ask include:

- How diversified is our economy?
- What industries are most important to local economic well-being?
- Do these industries produce goods (like agriculture, mining, and manufacturing) or services (like tourism, wholesale trade, and education)?
- Which industries are growing in importance, which are declining, and how do these trends compare to the regional and national economy?

Questions like these shift our focus away from data about *people* towards data about *industries*—the industries that make up a community's economy.

Researchers can analyze local economic structure either from the standpoint of jobs or income, or both. The following sections describe data sources for each of these key variables.

Employment

Employment data tell us how many jobs each industry provides for the local economy. The major sources of employment data are:

- Bureau of the Census (decennial census and County Business Patterns);
- Bureau of Labor Statistics and State employment security agencies (SESAs); and
- Bureau of Economic Analysis.

Where to get employment and earnings data for counties —

- Look in the library for Census reports.
- Call the State employment security agency or BLS in Washington (D.C.)
- Contact/the State Data Center of BEA
 In Washington, D.C.
- See Appendix D for names and phone numbers

Find out what is happening in your state—BLS News' reports up-to-date information on employment and earnings at the state and national level. WriteIngUires and Correspondence, BLS. Washington, D.C. 20212 to get on the free mailing list

We illustrate Nicholas County employment data in Table 8 and summarize the characteristics of each data source in Table 9. Table 8 shows that the four sources report very different numbers and are not comparable because coverage and definitions vary widely, as described in Table 9.

The decennial census provides the most detailed employment-by-industry data. These data, which are published in *General Social and Economic Characteristics* (Series PC-1-C), are available for counties and county subdivisions and for many industrial classifications. Employment data are cross-tabulated by demographic characteristics, and therefore give researchers the most details about the types of people who work in different industries.

The second column in Table 8 shows summarized 1980 census employment data for Nicholas County. These data are reported on a place-ofresidence basis, which means, for example, that 2,389 people who *lived in Nicholas County* in 1980 worked in the mining industry, according to the 1980 Census. The data represent numbers of people rather than numbers of jobs.

Because the census is taken only every ten years, it does not allow us to track recent changes

For every county, CBP tells us how

many people work in each industry, what their total payroll is, how many individual establishments make up the industry; and how large these establishments are: in terms of employment. Data that would disclose the payroll or precise number of employees for individual employers are not published. (The number of establishments and their distribution by employment-size class are not considered disclosures.) CBP does not show separate data for any industry

that has fewer than

50 employees, but

these data are avail-

able by paid request

if there is no disclo-

sure problem.

 -		1986 County	1986 Employ-	
Industry	1980 Census	Business Patterns	ment Security Agency	1986 BEA
N ₂ .	n	umber of employ	yed persons or job	s ——
Agriculture, forestry and fisheries	114	NA	27	396
Agricultural services, forestry, and fisheries ^b	NA	(A).	NA	41
Mining	2,389	1,185	1,901	1,948
Construction	562	187	212	372
Manufacturing	1,088	807	977	1,052
Transportation, communi- cation, and public utilities	399	271	275	397
Wholesale trade	213	214	297	333
Retail trade	1,455	1,180	1,423	1,798
Einance, insurance. and real estate	290	228	214	377
Services	1,644	736	774	1,616
Government	<u>338</u>	NA.	1.460	<u>1.548</u>
TOTAL	8,492	4,905	7.561	9,878

 Table 8
 Four Data Sources Give Researchers Four Sets of Employment

 Statistics for Nicholas County, West Virginia

NA: Not included in this series.

(A): Employment size class "zero to twelve" employees.

"Numbers are not directly comparable because coverage and definitions vary widely by source. See text and Table 9 for details.

^bi-or BEA, forestry and fisheries only.

Sources: U.S. Department of Commerce, Bureau of the Census (51) and (40); U.S. Department of Commerce, Bureau of Economic Analysis (55); West Virginia Department of Employment Security (64)

in economic structure. However, the Census Bureau's annual *County Business Patterns* provides more recent (but less detailed) employment-by-industry data for counties. *CBP* reports are issued for each state and include all employment covered by the Federal Insurance Contributions Act (FICA). They do *not* include data for state or local government employees, selfemployed persons, farm workers, or domestic service workers. (Because farmers and their employees are not included, *CBP* is less useful for counties where agriculture is important.) The data are obtained from economic censuses, various annual surveys, and administrative records from other agencies.¹ The third column in Table 8 shows *CBP* employment data for Nicholas County. The data are reported by place-of-work and represent numbers of workers. This means, for example, that 1,185 people who *worked in Nicholas County* in 1986 were employed in the mining industry, according to *CBP*.

In order to administer the insured unemployment program, (Employment, Wages, and Contributions--ES-202), the Bureau of Labor Statistics also tabulates employment-by-industry data. These data pertain to virtually all private and government workers.² The data come from quarterly tax bills and statistical requests sent by the SESAs to private businesses and government agencies.

Data Source	Basis	Observation	Come From	Coverage	Industry Detail ^a	Geographic Detail	Format	Frequency
Decennial Census Bureau of the Census)	Place of residence (people)	Census respondent	Sample of the population	All Employees and self-employed	4-digit SIC	To county subdivisions	Published, fiche	Every 10 years; 2-3 years after reference period
County Business Patterns (Bureau f the Census)	Place of work (people)	Establishment (single physical location where busi- ness is conducted or industrial operations are performed)	Economic censuses, annual economic surveys, and administrative records	Includes employment covered by FICA (primarily private, nonfarm wage and salary). Excludes self-employed persons, government employees, farm workers, and domestic service workers	4-digit SIC	To counties	Published	Annual, 2-3 years after reference period
ureau of abor Statistics nd SESAs	Place of work (jobs)	Establishment (economic unit which produces goods or services, generally at a single location)	Quarterly reports filed by employ- ers subject to unemployment insurance laws	Includes workers covered by State unemployment insur- ance laws and by the Unemployment Insurance for Federal Employees program. Excludes self-employed persons	4-digit SIC	To counties	On request from BLS; on request and also sometimes pub- lished by state employment secur- ity agencies	Annual; within 1 year of reference period
view.usrearce.readoursed.ear.ear.ear.ear.ear.ear.ear.ear.ear.ear	Place of work (jobs)	Same as BLS	Quarterly ES- 202 reports and adminis- trative records from other agencies and organizations	Includes private and public, full- time and part- time, self employment and wage and salary employment	1-digit SIC	To counties	On request from BEA and User Groups in each state	Annual; within 18 months of reference period
ESA: State Employn	nent Security ed. See aga	Agencies e 20 for discussion of Si	eres	1999 C. C. B. B. B. S.	ler statistic statistics	UDE ZIEGI MARAEKURELEEN	anirshippen a santari a	รระกาสสีสสัตร (c. วิดีชีวิธี ไม่จุด

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A COMMUNITY RESEARCHER'S GUIDE TO RURAL DATA

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BLS does not publish the county data but does make them available by paid request. County statistics are also available from the SESAs although these agencies vary considerably in how accessible they make the data. One SESA requires data users to come to the State capital and hand-copy data while others mail computer printouts or published data at no charge. The West Virginia Department of Employment Security, for example, publishes county employment figures annually and mails them at no charge.

The fourth column in Table 8 shows the SESA data for Nicholas County. They are reported by place-of-work and represent numbers of jobs covered by unemployment insurance. This means, for example, that there were 1,901 jobs in the mining industry in 1986, according to the West Virginia SESA.

The fourth source of employment data is the Bureau of Economic Analysis. BEA estimates these data annually, but does not publish them because they are produced as a by-product of the personal income estimates. The data are available from BEA itself by paid request and from BEA User Groups in each state. (Call BEA or your State Data Center for a contact in the User Group nearest you:)

The advantage of the BEA series is its broad coverage. Public and private, farm and nonfarm, wage/salary and self-employment are all included. One disadvantage is that some of the data are extrapolated from survey data when administrative data are not available, and so may be somewhat less reliable. Another disadvantage is that the county data are only available for broad industry groups, that is, at the one-digit SIC level.

The fifth column in Table 8 shows BEA employment data for Nicholas County. The data represent numbers of jobs and are reported by place-of-work. This means, for example, that there were 1,948 jobs in the mining industry in 1986, according to BEA.

Earnings

Earnings data pertain to the value of wages, salaries, and (in some cases) self-employment

Table 10State Employment Security
Agencies Publish Data on the
Earnings of Workers who are
Covered by Unemployment
Insurance

Nicholas County, West Virginia (1987)

Industry	Total covered wages	Average annual wage of covered employees — dollars —	Average weekly wage of covered employees	
Mining	64,629,535	33,908	652	
Bituminous coal	64,592,967	33,943	652	
Manufacturing Lumber and	15,720,912	13,437	258	
wood products Printing and	4,622,692	13,59 6	261:	
publishing Machinery except	193,344	7,734	148	
electrical	1,681,433	21,557	4143	
Services Hotels and	8,561,6 10	11,019	211	
 lodging places 	675,820	7,346	141*	
Business services	1,268,182	16,909	325	
Health services	3,640,521	11,306	217	
and car max mighted he	spannen v Eng	Section recomf.		

income that each industry generates in the local economy. Researchers can get up-to-date countylevel earnings data from BLS (through the SESAs) and from BEA.

BLS and its cooperating SESAs collect earnings data directly from employers at the same time they gather their employment information, so the coverage of both public and private sector wage and salary workers is almost complete. Again, BLS only makes these data available at the countylevel by paid request and SESAs vary in how accessible they make the data.

Table 10 shows data from the West Virginia State Department of Employment Security for Nicholas County. Note that the data pertain only to earnings by workers covered by unemployment insurance and therefore do not include proprietors' self-employment income. West Virginia issues the data about eight or nine months after the reference year.

The primary reason the SESAs collect employment and earnings data is to administer unem50 A Community Researcher's Guide to Rural Data

ployment insurance programs. However, analysts at all levels of government and in the private sector use the data. The Federal government, for example, uses the data to calculate a geographical index for various public assistance programs, State agencies use them to monitor industry trends, and business and labor organizations use them to negotiate wage agreements.

BEA uses BLS earnings data as the earnings component of its comprehensive personal income series. As noted in Chapter 3 and illustrated in Figure 16, BEA personal income data are widely used as a framework for analyzing the structure of local economies. The data are estimated on a place-of-work basis by type and by industry in the annual report, *Local Area Personal Income*. Farm earnings are reported separately from nonfarm earnings, and earnings from the private sector are reported separately from public sector earnings. The data are available in published and computerized form; revised estimates are available on request from BEA.

Industry-Specific Data³

Once people in a community have an overview of local economic structure, they are likely to want more detailed information about the individual industries that are in some way critical to the community's well-being. They may want to look at the industry in the state as a whole or at countyspecific data. Questions they might want to answer include:

- What is the structure of our most important industries? Do many individual firms compete with each other or do only a few firms dominate these industries?
- What is the value of production from these industries?
- Are these industries becoming more productive, that is, are they producing the same output with fewer inputs?

For example, staff at the Mountain Association for Community Economic Development

What is the national outlook for industries that are important to your community?

For information about nonfarmindus: tries, see, U.S. Industrial Outlook, an annual report from the Department of Commerce: (If ican) be ordered from the Government Printing Office for \$24 of found in depository: libraries) For information, about agriculture, see the monthly report. Agricultural Outlook, (A one-year subscription casts \$22 from IERS-NASS) Both publications provide detailed information about specific industries. Authors of individual articles are excellent confacts for more information

(MACED) in Kentucky focused on the coal mining industry because it has a major impact on the level and distribution of income in that state. They wanted to know how coal production and employment levels were changing, and how changes in productivity (production per worker) affect the outlook for Kentucky's coal industry.

To answer questions like these, researchers can use a combination of data sources, beginning with the employment and earnings sources listed above and with the agricultural and economic censuses conducted in years ending in "2" and "7." These censuses provide data on agriculture, mining, manufacturing, trade, and services for counties and, in some cases, places with 2,500 or more inhabitants. Researchers can then supplement small area data from these sources with information from state and national level industry reports, and with data from other government agencies.

The agricultural and economic censuses are mandated by law.

Firms are required to respond, but are protected by the confidentiality require ment that prevents publication of data fhat would reveal specific identities and activities. Data are collected on an establishment basis firms operating more than one establishment are required to file a separate report for each location

Agriculture

Although many rural communities have diversified their industrial mix in the last several decades, a significant percentage continue to rely heavily on agriculture as a major source of income.⁴ The issues facing people in these communities include farm profitability, the environmental consequences of current farming practices, and the structure of the industry itself. Questions that people might ask include:

- What are the major crops produced and livestock raised on farms?
- What is the financial condition of local farmers?
- How big is the average farm?
- How many farms are sole proprietorships (that is, owned by one person), how many are partnerships, and how many are corporations?
- ••• How many farmers are part-time?

Probably because of its historical importance, we have more information about agriculture than about any other industry that contributes to the rural economy. The most comprehensive source is the agricultural census, conducted every five years by the Bureau of the Census.⁵

For the last census, which was done in 1987, the Census Bureau mailed short "screening" questionnaires to a list of 4.2 million individuals, businesses, and organizations that the agency had identified as being associated with agriculture. Respondents were asked questions to determine

whether they met USDA's definition of a farm, that is, whether they sold (or had the potential to sell) at least \$1,000 worth of agricultural products in 1986. Those that qualified received a complete census questionnaire.

Agricultural census data are available in state-by-state reports in published and computerized formats at the countylevel about two or three years after the reference period. (State reports from the 1987 Census were released starting in early 1989.) More up-to-date information is available from an agency within USDA called the National Agricultural Statistics Service (NASS). Each year, its 44 field offices conduct sample surveys by mail, telephone, personal interviews, and in-the-field observation to collect information on crop and livestock production, marketing, and income. These data are released by state offices in annual reports. Some data are reported for counties, others for crop reporting districts (multicounty units), and still others for the state as a whole. Pertinent national data may also be included in the state reports. Table 11 shows how some of the NASS data are presented for Kossuth County.

NASS operates field offices in each state except Delaware (which shares Maryland's office) and Maine, New Hampshire, Vermont, Connecticut, Massachusetts, and Rhode Island (which are all part of a New England Regional office in Concord, New Hampshire). Questions about the state system should be referred to the Director, State Statistical Division, NASS, USDA South Building, Washington, DC 20250, (202) 447-4020.

The Economic Research Service (ERS) is the USDA agency responsible for analyzing and reporting much of the data collected by NASS, as well as agricultural and rural data from many other agencies and organizations. With some important exceptions, most ERS analysis and research is done at the national and regional level. One exception is the state financial summaries that ERS publishes in the November or December issue of *Economic Indicators of the Farm Sector*, which is

Table 11	State Field Offices of the National Agricultura Statistics Service Publish Annual Production and Marketing Data							
Crop	Ko Harvested for grain. (acres)	Ssuth Cou Yleid per acre (busheis)	inty, lowa (Production (1,000 bu.)	1986°) Price received - per:bushei (dollars).				
Com	237,500	152.6	36,246	2.43				
Soybeans	26 9.000	38.0	10,244	5.50				
Oats	5,000	73.4	367	1.83				
° Preliminar	у							
Source: Iowa Ag	riculturol Statistics ()	15						

published five times a year. Based on the NASS Farm Costs and Returns Survey, this report regularly includes both income and balance sheet accounts for each state.⁶

Up-to-date estimates of production, stocks, inventories, and other agricultural data are issued by USDA's Agricultural Statistics Board and the State Statistical Offices. Send for a free copy of the "Agricultural Statistics Board Catalog" from ASB Publications, Room 5829 South Building, USDA, Washington, D.C. 20250.

Forestry

The forestry industry includes timber production and harvest, forestry services (such as pest control and reforestation), and the manufacture of wood products.⁷ Rural communities that depend on the forestry industry are scattered throughout the Pacific Northwest, the upper Midwest, parts of the Southeast, and the extreme Northeast.

The issues facing the industry and communities that depend on forestry are complex, in part because so much forest land is Federally owned and therefore the focus of intense public scrutiny. Public policy must address questions about how to: insure the long-term productivity of the Nation's timber resources; preserve multiple uses of timber lands while protecting wildlife, soil, and water, quality; and afford some measure of economic stability to the communities that depend on forestry. Some of the questions that people in such communities might want to ask include:

- How many local jobs and how much local income depends on forestry?
- Who owns the region's timber lands?
- How are regional timber resources being managed and used, and to whom are they being sold?
- What is the size and structure of the forest products industry?
- How is local employment being affected by increased use of machinery, or alternatively, by the size of the timber harvest?

From the perspective of a community researcher, data to answer questions like these are fragmented and difficult to find. (There is no Census of Forestry, for example.) Forestry is an industry whose level of income and employment is relatively minor in terms of the national economy, but which is extremely important to some regions, especially in rural areas. Therefore, Federal statistics by themselves are insufficient for local analysis and must be supplemented by other data.

Researchers can start with the following sources:

- USDA's Forest Service (which is in charge of all Federally-owned timber land);
- U.S. and state Forest and Range Experiment Stations (which conduct research on a variety of renewable resource issues); and
- State forestry agencies.

Researchers can supplement these sources with information from State employment security agencies, *County Business Patterns*, and the Bureau of Economic Analysis.

One of the first questions that researchers might ask concerns the extent to which their community depends on the forestry industry for income and employment. They can find at least a partial answer in the environmental impact statement (EIS) developed by the Forest Service for every National Forest. The EIS analyzes the direct and so-called *induced* effect of alternative forest management plans on the economy and physical environment of multicounty areas. For example, the EIS for White Mountain National Forest in northern New Hampshire evaluates how different harvest rates will affect income and employment in an area that includes Coos and three adjacent counties (33).⁸

Researchers who are interested in data for a single county, or in information about forestrydependence in areas where timber land is privately held, need to go directly to secondary sources. With respect to employment data, State employment security agencies collect information on wage and salary workers in the forestry industry including, for example, those who work in forestry services, and lumber and wood products manufacturing. The shortcomings of the SESA data are: (1) self-employed loggers and millowners are not counted, (2) U.S. Forest Service workers are not reported separately from other Federal government workers, and (3) forestry workers employed for wages or salary are usually grouped with those in agriculture and fisheries.

One option is to try to get detailed wage and salary data directly from the SESA and then doublecheck these data with statistics from *County Business Patterns*. By combining the two sources (as well as data from private companies if possible), the researcher may be able to piece together a realistic employment profile for the forestry industry.

County-level income data for the forestry industry are even more problematic. BEA does not report either forestry proprietors' income or forestry worker income separately. Community researchers should probably work with analysts in their State Forest and Range Experiment Station to develop independent estimates.

Another important question that people in forestry-dependent communities might ask concerns the ownership and management of public and private timberland. National, regional, and local Forest Service offices can provide information about Federal ownership, while State and Private Forestry Offices (located in the regional Forest Service offices), or individual State forestry agencies (where they exist) should be able to provide information about state- and privatelyowned forest land.

Federal timber policy is guided by three Congressional Acts that, in theory, provide publicsector forest managers with a framework for longterm planning. These managers are responsible for developing and implementing an official Forest Plan which is revised every 10 to 15 years. These plans are the Federal government's vehicle for communicating with the public. They set forth overall management principles and also specify targets for activities such as timber harvest, road

The U.S. Forest Service publishes A Guide to Your National Forests which includes a map of all National Forests a directory of the nine regional and 123 local Forest Service offices, and a list of the eight Forest and Range Experiment Stations: The agency also publishes Land Areas of the National Forest Sys tem, a reference book that contains state-, county-, and congressional district-level acreage data for National Forests Wilderness Areas and other lands in the Forest-Service-system. Both publications are free from the U.S. Forest Service, P.O. Box 9609, Washington, D.C. 20090 or (202) 447-3957.

construction, campground development, and protection of roadless areas. Forest Plans are available from local Forest Service offices.

The quality of information on the size and structure of the local forest products industry varies widely. Researchers should check with the regional Forest and Range Experiment Station and State forestry agency to find out what is available for their area.

Staff from the Census Bureau's Industry and Business Division handle data-related questions about frade, services; manufacturing; and mineral industries.

See "Telephone Contacts Bureau of the Census" or call Data User Services: (301/763:4100) for names of subject area specialists. Other good information contacts are the analysts at the Bureau of industrial Economics (also in the Commerce Department), who monitor specific industries (Call the Bureau Director's Office for information (202/377-1405)

Mining

The mining industry is a diverse sector that includes the extraction of minerals occurring natu-

rally (solids such as coal and ores; liquids such as crude petroleum; and gases such as natural gas). The major factors that affect the industry's performance vary according to the particular substance that is mined, although in general, the industry is characterized by high instability. Analysts have classified some 200 nonmetro counties as "mining-dependent." They are concentrated in the coal-producing areas of Appalachia and the Midwest, the oil-producing areas of Texas, Oklahoma, the Louisiana Gulf Coast, and throughout the Southwest and West as mineral-producing counties.⁹

The primary source of small area data on the mining industry comes from the Census of Mineral Industries, which covers all establishments with one or more paid employees. Information from this census allows us to answer questions about the local structure of the industry (how many establishments and employees), its payroll, value of shipments, and capital expenditures.

The enumeration method for the 1987 Census of Mineral Industries combined a mail questionnaire (for about 22,000 medium- and large-size establishments) with administrative record data

The Energy Information Administration (EIA) collects and publishes output, employment, and productivity data on the coal, petroleum, natural gas, and other energy industries.

the annual EIA Publication Directory and order the free. bimonthly bulletin. New Releases: by calling (202) 586-8800 or by writing National Energy information Center. EIA: Room IE-048 Forrestal Building: Washington: D.C. 20585.

from other federal agencies (for about 11,000 smaller establishments). County data will be published in the Geographic Area Series of regional reports (MIC87-A), which is scheduled to be released in late 1989 and early 1990. Table 12 shows how 1982 census data were published for Nicholas County. (Note that significantly more data are presented at the state level in the same report.)

Table 12 Mining Date	a Come I	from the Census of	ot Mineral	Industries	5				
	Nicholas County, West Virginia (1982)ª								
industry group ^b	Estat	plishments	Ali em	ployees	Production, development, and exploration workers				
	Total (number)	With 20 Employees or more (number)	Number (1,000)	Payroll (million \$)	Number (1,000)	Hours (millions)	Wages (million \$)		
Total	60 2	21	2.3	64.8	1.8	3.3	51.6		
Bituminous coal and lignite mining	47	20	2.2.	63.6	1.8	3.2	50.7		
Oil and gas extraction Crude petroleum an	12	<u> </u>	· c	đ	. d	đ	d.		
natural gas	7	<u> </u>	. 9	0.1	0	6	Ð		

The Census Bureau used administrative record data in conjunction with industry averages to estimate 10-19 percent of figures shown for this county.

^bindustry groups with value of shipments greater than \$5 million.

^cLess than 100 employees.

^dWithheld to avoid disclosing data for individual companies.

^eLess than half the unit shown. In the fourth column, for example, "e" means less than one-half of 1,000

Source: U.S. Department of Commerce, Bureau of the Census (52)

Other small area mining data are available from state agencies in those states where mining is an important activity. For example, the West Virginia Department of Mines issues an Annual Report and Directory of Mines which contains time series data on underground and surface mine coal production by county.

Manufacturing

In recent years, the share of wage and salary workers employed in manufacturing has grown faster in rural than in urban areas, although it has been declining at the national level. In 1984, 22 percent of all workers in nonmetro counties were employed in manufacturing, compared to 19 percent in metro counties. Counties where manufacturing makes a major contribution to personal income are concentrated in the Southeast, North Central and Northeast regions, with a few scattered in the Pacific and Inland Northwest (3).

One of the major issues facing manufacturingdependent rural communities is foreign competition. Assembly line, "routine" manufacturers (like those in textiles and automobiles) are especially vulnerable to competition from countries where labor is relatively cheap (4). For rural communities that are economically dependent on routine manufacturing, this competition has resulted in plant closings, worker lay-offs, and serious, longterm economic problems.

One source of county-level data on the manufacturing industry is the census of manufactures, which covers all establishments "engaged in the mechanical or chemical transformation of materials or substances into new products" (47). Data from this census allows researchers to answer questions about the local structure of the industry, its payroll, cost of materials, the value of its shipments out of the community, and new capital expenditures. County-level information is presented for the manufacturing industry as a whole, as well as for detailed manufacturing industries that have at least 450 employees in a particular county.

Like the census of mining, the enumeration method used for the 1987 census of manufactures combined a mail questionnaire (to about 200,000 mid-size and large establishments) with administrative records (for about 150,000 single-establishment firms). Data for counties and selected places will be published in the Geographic Area Series (MC87-A) beginning in early 1990.

For larger-area statistics on the manufacturing industry, researchers can use state tables in the Geographic Area Series, or for detailed statistics on specific industries, they can consult the Industry Series (MC82-I). In the case of Coos County where wood products are manufactured, for example, researchers would likely be interested in reports such as "Logging Camps, Sawmills, and Planing Mills" (Report 24A).

Because of the "450 employee" limit, the census of manufactures does not often provide data for detailed industry groups in nonmetro counties. For Nicholas County, for example, the census provides data about establishments that manufacture "lumber and wood products," but not for the subcategories "logging camps and logging contractors" and "sawmills and planing mills." For more detail about manufacturing in Coos County, researchers can use data from *County Business Patterns*, (*CBP*) which are illustrated in Table 13. Among other things, *CBP* data indicate that "logging camps and logging contractors" make up 76 percent of "lumber and wood products employment," but only 68 percent of the payroll.

Trade

The trade industry includes businesses that sell merchandise either to other businesses (wholesale trade) or to consumers (retail trade). Recent research indicates that some types of trade establishments are more concentrated in rural areas (relative to population) than in urban areas. These include food stores, auto dealers and gas stations, and establishments that sell building materials. Other trade establishments are either equally likely to be in urban areas, or are more concentrated in urban areas.¹⁰

The primary sources of small area data on the trade industry are the censuses of retail and wholesale trade. Like others in the economic series; the trade censuses allow us to answer questions about

Table 13 County Business Patterns Adds Detail to Economic Censuses Like the Census of Manufacturers							
Coos County, New Hampshire (1986)							
Industry	Total number of establishments	Number of employ ees for week including March 12	Annuai payroli (1,000 \$)				
Lumber and wood product Logging camps and	s 55	530	8,007				
logging contractors Sawmills and planing mills	40: 12	401 86	5,488 1,843				
Furniture and fixtures Household furniture	1. 1	a	b: b				
Paper and allied products Paper mills, exc. building	4	c	b				
paper Miscellaneous converted	2	c	ь				
paper products	2	d	ь				
^o 20-99 employees							
^b Withheld to avoid disclosing data	for individual establish	ments					
°1,000-2,499 employees			.				
^d 250-499 employees							
Source: U.S. Department of Commerce, Burea	iv of the Census (<u>40</u>)						

numbers of establishments and employees, payroll, and value of sales. In the case of retail trade, these statistics are provided for 10 types of industries for counties and places that have at least 350 establishments with paid employees. Less detail is available from the census of wholesale trade, which provides statistics for only two kinds of businesses—merchant wholesalers (which own the goods they sell) and "other operating types" (which act as agents and do not actually own what they sell).

The enumeration method for the 1987 trade censuses combined a mail questionnaire (for midsize and larger establishments) with administrative records (for smaller establishments). Data for counties and places with at least 2,500 population are published in the Geographic Area Series (RC87-A and WC87-A) which is being released as this report goes to press.

The census of retail trade reports the number of establishments and total sales for ten kinds of retail businesses, such as food stores, eating and drinking places, and apparel and accessory stores.

Other small area retail trade data are available from a private source called the Annual Survey of Buying Power issued by Sales and Marketing Management. Published annually within 12 months of the reference year; Survey of Buying Power includes retail sales estimates by selected SIC groups, including establishments that sell food; eating and drinking places; general merchandise stores; furniture, furnishing, and appliance stores; automotive supply stores; and drug stores. Sales and

Marketing Management uses census of retail sales data as benchmarks; and then uses other public and private sources to update the census data.

The Census Bureau issues monthly and annual current trade statistics for the United States and, in some cases, states and regions. See the *Census Catalog and Guide* or call Data User Services at (301) 763-4100 for more information.

Services

The service industry includes establishments that provide services to individuals, businesses, and governments. Examples of service establishments are hotels; personal service businesses such as laundries and barber shops; business service companies that do, for example, advertising and data processing; health, legal and educational services; and private households that employ workers in domestic service.¹¹

Many rural communities see the service industry as a possible vehicle for economic development. Some service-based strategies focus on attracting tourists (who patronize, for example, hotels and other lodging places, recreation services, and restaurants) while others concentrate on retirees (who need health care, nursing homes, and other services). Critics of such strategies warn that parts of the service industry are unstable because they are sensitive to changes in consumer income and that jobs generated by the industry are often unskilled, seasonal, and low-wage.

The primary source of small area data about this industry is the census of service industries, which covers most service establishments *except* education; labor, political, and religious organizations; and private households. Data for this census are gathered primarily through a mail questionnaire and from administrative records (for the very smallest establishments).

Statistics from the census of service industries include numbers of establishments and employees, payroll, and receipts. The data are provided by detailed type of business for counties and places with 350 or more service establishments with paid employees. Table 14 shows how the data were presented for Burnet County in 1982. (As in the case of manufacturing statistics, detail for specific industries is available in *CBP*.)

Other data for selected service industries are often available from state commerce or business development agencies. In particular, states that actively promote tourism typically collect information on lodging places, restaurants, and recreation services.

The Role of the Federal Government

Although the Federal government provides a relatively small share of local government revenue (as we will see in Chapter 5), it does make a substantial contribution to local economies by transferring income and making loans directly to individuals and businesses. Researchers can learn the size of that contribution by using the *Consolidated Federal Funds Report (CFFR)*, an annual Census Bureau publication that contains small area data on Federal government expenditures and obligations.

Statistics in the two-volume CFFR are very up-to-date because the publication is issued approximately six months after the fiscal year to which it pertains (October 1 to September 30). Volume 1 covers county areas and includes statistics on grants to local governments, salaries and wages, procurement contracts (defense and other), direct payments to individuals (retirement and disability and other), loans (direct and guaranteed), and some other major programs. Volume 2. covers subcounty areas and includes statistics on grants to local governments, procurement contracts (defense and other), and loans (direct and guaranteed).

Table 14	The Census of Service Industries Provides Data on Industries that are Becoming
	More important to Some Rural Communities

	Hotels, motels and other lodging places		Automotive, repair, services, and garages		Amusement and recreation services		Health services except hospitals		Legai services		
· · · · · · · · · · · · · · · · · · ·	Number	(\$1,000)	Number	(\$1,000)	Number	(\$1,000)	Number	(\$1,000)	Number	(\$1,000)	
Burnett County, TX	10	a.	5	567	6	٥	24	4,715	11	705	
Burnet	3	a	3	206	2	ď	8	2,581	6	443	
Marble Falls	1	a	1	٩	1	٥	9	1,011	1	ġ:	
Balance of count	ty 6	3.666	1	٩	3	٥	7	1,123	4	a	
Withheld to avoid disc	losing da	ta for indiv	idual com	panies							

Establishments With Payroll in Sel	ected Kind-of-Business Groups:
------------------------------------	--------------------------------

Source: U.S. Department of Commerce, Bureau of the Census (53)



Figure 17 illustrates *CFFR* data for Burnet and Kossuth Counties. On a per capita basis, Kossuth receives more than twice as much money from the Federal government (including direct payments as well as loans and guarantees) as Burnet. The difference is due primarily to direct loans and guaranteed loans and insurance (most likely to local farmers). Because of its high concentration of retirees, Burnet County receives the most from retirement and disability programs.

Notes

- . Selected CBP data are reported in the County and City Data Book.
- 2. BLS estimates that this program covers about 99.6 percent of all wage and salary workers in the United States and 92 percent of all workers in the economy. The missing 8 percent are almost entirely self-employed. To the extent that rural people are more likely to be self-employed than urban people, the coverage in rural areas is lower.
- 3. For excellent background material on the performance and structure of industries that are important to rural communities, see *Rural Economic Development in the* 1980s, (32).
- 4. There are 514 counties in the nation where farming contributed at least 20 percent of total labor and proprietor income (LPI) during the period 1980-84. In an additional 540 counties, farming contributed 10-19 percent of LPI. These counties are primarily concentrated in the Plains States and western Corn Belt. See "Farming-Dependent Counties and the Financial Well-Being of Farm Operator Households," by Ahearn, Bentley, and Carlin (1).
- 5... Between 1969 and 1982, the agricultural census was conducted every four years.
- Income accounts include net farm income, net cash income, net business income, net cash flow, cash income to farm operator households, and returns to operators from production transactions. Balance sheet accounts include current market value of assets, debts, and net worth.

- 7. The SIC system used by all Federal agencies includes logging and wood products manufacture (such as furniture, pulp, and paper) in the *manufacturing* industry. Some analysts, like Weber, Castle, and Shriver (<u>63</u>) include these related activities in the *forestry* industry. The latter convention is followed here.
- 8. The Forest Service uses input-output analysis to describe the structural interdependencies in the regional economies affected by the agency's activities. With their "IMPLAN" model, they predict how various timberland management plans will affect local income and employment in areas that typically contain several counties. Robison and Katzer (25) have developed a technique to localize the IMPLAN model on a subcounty, community level.
- 9. Bender, et al., pg. 8, (3).
- 10. See Bluestone and Miller's article, "Employment Growth in Rural Services Depends on Goods-Producing Industries," in *Rural Development Perspectives*, (5). The authors based their conclusion about geographic concentration on a comparison of local and national shares of employment in various service industries.
- 11. Service *industries* are different from the serviceproducing *sector*. The latter is a broader classification which includes all industries that produce no tangible product—such as transportation, communications, trade, household services, and government. The service sector is responsible for almost the entire net increase in U.S. employment during the last 15 years.

ANALYZING GOVERNMENT IN RURAL COMMUNITIES

State and local governments around the country are finding it increasingly difficult to cover the cost of essential public services. In rural areas, declining income from natural resourcebased industries and falling property values have eroded local tax bases. At the same time, the demand for education and other services has increased, and some federal assistance programs have been cut. The outlook for future revenue from state and federal programs is dim—States face the same problems as local communities and the Gramm-Rudman-Hollings deficit reduction targets will likely curtail future federal aid to localities.

The message to many communities is clear: Raise tax revenues, cut services, or find a way to provide the same services at lower cost. Making an informed choice between these politically difficult options requires a thorough understanding of local government structure and of how various government units generate revenue and spend money. Some of the specific questions that a community researcher might ask are:

- How many and what kind of government jurisdictions exist in the locality, what services do they provide, and which ones are authorized to levy taxes and spend money?
- What percent of local revenue comes from intergovernmental transfers (Federal and state), and from own sources (for example, property taxes, sales taxes, and user fees)?
- How are these revenues used to provide various services?

- How do expenditures and the level of services supported compare with state, regional, or national norms?
- How many people are employed by the local government and how much do they earn?

The most useful and easy-to-find statistics for answering these kinds of questions are issued by the Bureau of the Census. These statistics come from the agency's census of governments, which is conducted in years ending in "2" and "7." The reports in the government series include data on some 82,000 local units of government below the Federal and state levels, including counties, municipalities, townships, school districts, and special districts.

In addition to reports from the ensus of governments, the Census Bureau publishes reports based on annual and quarterly surveys on such topics as government employment finance and public employee retirement systems. Many of these reports include data for small governments in general although data are rarely reported for specific government units. See the current *Census Catalog and Guide* for more information.

A word of caution before we discuss how researchers can use these statistics: Analyzing local government is a complicated task. Frequently, published data cannot be taken at face value because budgeting and accounting practices differfrom state to state and from one jurisdiction to

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another within a state. Therefore, consulting with local planners, people who are responsible for budgeting and accounting within the local jurisdiction, and other knowledgeable people (and possibly hiring a professional researcher) are crucial to conducting careful research on issues pertaining to local government.

Local Government Structure

Researchers can answer questions about the structure of local governments with information from the Census report called *Governmental Organization*, Series GC(1). The most up-to-date edition of this report is based on data from the 1987 Census of Governments and is scheduled to be released in 1989. It provides information on the number and selected characteristics of local government units and public school systems as of the beginning of 1987. County-level data items are: (1) number of local governmental units and (2) type of units (municipal, township, school district, and special district).

Data from the 1982 Governmental Organization report are shown in Table 15. We see that Whitman County has 56 separate government units, compared to only nine in Attala County. For every state, Governmental Organization describes each type of government unit and school system in terms of its purpose, authorizing legislation, and funding source. We learn that in the state of Washington, there are 27 separate types of governments. Among these are "special districts" which include such entities as port districts, housing authorities, fire protection districts in unincorporated areas, weed districts, and intercounty rural library districts.

Local Government Finance

After learning about how local government is structured, next a community researcher needs to understand where public revenues come from and how they are spent. As mentioned above, budgeting and accounting practices differ from community to community so it is important to consult with knowledgeable people before tackling this subject.¹

The Census Bureau reports revenue and expenditure data for counties in the *Compendium of Government Finances*, one of five reports in Series GC(4).² (As this manual goes to press, the 1987 edition has not yet been released.) Revenues are classified by type (intergovernmental, general

Table 15Governmental Organization, a Report from the Census of
Governments, is a Primer on Local Governments and Public
School Systems

	Governmental Units: 1982							
County	<u>Iotai</u> ª	Municipal	School <u>District</u> number —	<u>Spe</u> Total	ecial District With property taxing power			
Attala, Mississippi	9	4	2	2	0			
Burnet, Texas	13	4	2	6	0			
Coos, New Hampshire	44	1	15	8	2			
Kossuth, Iowa	21	12	7	1	0			
Nicholas, West Virginia	12.	2	1	8	0			
Whitman, Washington	56	16	13	26	24			
^o Includes county government Source: U.S. Department of Commerce	as a sepa	rate unit. Coos	County total	includes	19 township units.			

from own sources, and utility and liquor store) and expenditures are classified by function. (Functions include education services, social service and income maintenance, transportation, public safety, environment and housing, government administration, and utilities.)

Figure 18 illustrates how a researcher might use these revenue data. For all six sample counties, revenue from the



Federal government to the county (not including money paid directly to individuals) makes up the smallest share of total revenue. Coos County gets the largest share from the Federal government because so much of the county is made up of Forest Service land. Whitman County, on the other hand, generates the largest share from state sources, primarily because of its state university.

Own source revenue, which is money raised by the county itself, comes from two sources. The first is taxes (such as real property, personal property, income and sales). The second source is charges and miscellaneous revenues (such as

Sources of comparative finance data may be available in your state for years in between the censuses. Contact your county municipal or school district officials state association of counties or municipalities the state auditor or private associations such as the state taxpayers league interest earnings, fees and permit revenue, and user fees for water, solid waste disposal, recreation, etc.)

One very important component of own source revenue is the property tax. When property tax revenues fluctuate from year-to-year (as they do in some resource-based rural communities), providing public services that depend on property taxes is especially difficult. For example, between 1982 and 1986, plummeting land values in many farmdependent communities caused property tax collections to decline. This placed severe stress on the ability of local governments to finance education and other public services (<u>29</u>).

One source of data for analyzing local property tax values is the Census report called *Taxable Property Values and Assessment/Sales Price Ratios*, Series GC(2). It contains information on assessed valuations, property sales, and property tax rates. County-level data items are: (1) gross assessed property value (total, real, and personal); (2) the tax-exempt portion of locally assessed

value (real and personal); and (3) assessed value subject to tax (total, state assessed, and locally assessed). Like other reports in this series, the most recent edition is based on data from the 1987 census of governments.

Because local governments must make budget projections annually or biannually, it is often very important for officials to know how the property tax base is changing from year to year. Because Census data are issued only every five years, people who need more up-to-date information should contact their county tax assessor.³ Although property values are a matter of public record, assessors vary in how accessible they make the data.

Just as important as knowing where the money comes from is knowing how it is spent. Again using the *Compendium of Government Finances*, community researchers can learn how much their local government spends on various public services, and how their expenditures compare to those made in other communities. For example, Figure 19 shows expenditures on police protection by each of the six sample counties. On a per capita basis, Whitman County spends the most while Attala County spends the least.

Other tables in this Census report show (for each state) revenue and expenditure data for groups of counties of similar population size. (There are eight population-size groups ranging from "less than 10,000" to "1,000,000 or more.") With this information, researchers can compare their county budget to that of counties with roughly the same number of people. They might, for example, learn that there are "economies of scale" for certain services, that is, the cost of providing a particular service might be less for larger counties. If this is the case, two counties might be able to save


money if they offer the service jointly instead of individually. (Alternatively, the cost of providing services might be affected by population density rather than size, a relationship that the Census data would not reveal.)

Public Employment

Public employee payroll is one of the largest components of local government expenditures and is one target for budget cuts in some parts of the Nation. Using Census data, researchers can find out how many people are employed to provide public services in their county. They can also compare their public employment and payroll levels to those in counties of similar size around the country. The source of such information is a report called *Public Employment*, Series GC(3). One of the volumes in this report, *Compendium of Public Employment*, includes county-level data on number of employees by function as well as October earnings for full-time teachers and all other public employees.

Figure 20 illustrates how these data can be used. Of the six sample counties, local government hired the most full-time equivalent (FTE) teachers per 1,000 population in Nicholas County, and the least in Whitman County. In October 1982, these teachers earned the highest salary in Whitman County and the lowest in Attala County.

Again, Census issues these data only once every five years, so people who need more up-todate data should contact local sources, such as their county or municipal government office.



Notes

- Government accounts are usually organized into distinct funds which are kept separate for the purpose of carrying out specific activities or achieving particular objectives. Three important types of funds are: 1) general government, through which most governmental functions are financed; 2) proprietary, which accounts for private sector-type activities; and 3) fiduciary, which accounts for assets held by the government in an agent or trustee capacity (12). For more information on government accounting procedures, consult a textbook on local government finance.
- Other reports in the series present larger-area data on government revenues, by source and type; expenditures, by function, character, and object; indebtedness and debt transactions; and cash and security holdings.

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Sec. 10. 8.

3. In some states, funding formulas provide incentives for communities to assess property at less than fair market value. Where these incentives are large, people may get more accurate information about local property values from the State Department of Revenue or State Board of Equalization than from local officials.

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GLOSSARY*

administrative data

Data collected in the course of an organization's normal business, for example, the Internal Revenue Service's file of all income tax returns.

age pyramid

A bar graph that shows the age distribution of a population. Age pyramids are usually constructed using 5-year intervals, with the older age intervals at the top of the graph.

aggregate income

See total personal income.

Beale coding system

Classifies all U.S. counties into ten groups based on urban/rural population characteristics and location with respect to urban areas. Includes six groups of nonmetro counties and four groups of metro counties. Also referred to as the "Urban-Rural Continuum Code."

block

The Census Bureau term for a small geographic area with discernable boundaries but no minimum population. Blocks are the smallest geographic units used by the Census Bureau for collecting and reporting data. In rural areas, block boundaries may be visible features such as roads, powerlines, fences, and abandoned railroads.

census

A count, or enumeration, of the population.

census county division (CCD)

A county subdivision designated by the Census Bureau for statistical purposes in states where *minor civil divisions* do not exist.

census designated place (CDP)

The Census Bureau term for an unincorporated, closely settled population center with at least 1,000 inhabitants and without legally established boundaries. CDPs are designated for statistical purposes.

consumer price index (CPI)

A single number which gives the average value of current consumer prices compared to some base period. Compiled by the Bureau of Labor Statistics, the CPI measures how much inflation (or deflation) is occurring across the entire range of consumer goods.

constant dollars

See real dollars.

current dollars

Dollars that have not been adjusted by a price index (such as the *consumer price index*), as contrasted with *real dollars*.

decennial census

A census taken every ten years. The U.S. Census Bureau conducts a decennial census of population and housing in years ending in. 0 (zero).

* For more detail, readers are encouraged to refer to original sources referenced in the text.

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demography

A science concerned with the size, geographic distribution, structure, and change of human populations. Demographic statistics include those that pertain to population, sex, and age composition, mortality and fertility, educational and economic characteristics, and migration.

enumeration district

The Census Bureau term for a geographical area assigned to one *enumerator*.

enumeration method

The method by which data are collected, for example, with a mail questionnaire, personal interview, or from administrative records.

enumerator

In the case of the decennial census, an employee of the Census Bureau who is hired to count housing units and personally interview a sample of the population. More generally, a person who conducts interviews.

environmental impact statement (EIS)

In the case of the U.S. Forest Service, an analysis of the direct and indirect effects of alternative forest management plans on the economy and physical environment of a multi-county area. More generally, an analysis of how a particular development project will affect resource use and quality in a particular area.

industry

Kind of establishment; an establishment's economic activity, such as agriculture, medical services, construction, or retail trade:

intercensal

Between the years of the *decennial census*. Working with State agencies, the Census Bureau makes intercensal estimates of the population of all U.S. counties and subcounty governmental units.

labor and proprietor income (LPI)

One component of *personal income* estimates from the Bureau of Economic Analysis. Includes 1) wages and salaries paid to employees, 2) other labor income consisting primarily of employer contributions to private pension and welfare funds, and 3) income to self-employed individuals (proprietors), partnerships, and taxexempt cooperatives.

labor force

The part of the population that is employed or available for work. The labor force includes people who are in the armed forces, employed, unemployed, or actively seeking employment. The Bureau of the Census currently publishes labor force statistics for persons age 16 years and older.

labor force participation rate

Proportion of people age 16 years and older who are in the *labor force*, that is, the number of people who are employed or available for work divided by the number of people who are age 16 years and older.

longitudinal study

A study that involves data collection from the same respondents at different points in time. For example, in a longitudinal study in Wisconsin, researchers interviewed a sample of farmers in 1982 and again in 1987 to learn how the respondents adjusted to major changes in the agricultural economy.

mean income

The average amount of income received, that is, *total income* divided by total population.

median income

The income level at which half of the population have lower incomes and half have higher incomes; the middle income level.

metropolitan (metro) county

The Census Bureau term for any county in a *metropolitan statistical area*.

metropolitan statistical area (MSA)

An area designated by the Census that is made up of one or more counties around a large population center, together with adjacent communities that are socially and economically integrated with the central city. An MSA must either have (a) a city with a population of at least 50,000 or (b) an urbanized area (which is a *census designated place*) with a population of at least 50,000 *and* a total MSA population of at least 100,000.

minor civil division (MCD)

The Census Bureau term for a governmental unit that is smaller than a county, such as a town or township.

money income

Term used by the Census Bureau for cash income such as wages and salaries, interest, rental income, Social Security payments, and public assistance.

occupation

Kind of work; a person's activity on the job either for pay or profit, such as farmer, nurse, computer programmer, bus driver, or logger.

natural increase

The difference between the number of births and deaths in a particular area. Together, natural increase and *net migration* are responsible for population change. (In rare instances, deaths outnumber births, resulting in natural decrease.)

net migration

The difference between the number of people who move into an area (in-migrants) and the number who move out (out-migrants). If inmigrants outnumber out-migrants, the area experiences net in-migration and vice versa.

nonmetropolitan (nonmetro) county

A county that is not part of a Census-designated *metropolitan statistical area*.

per capita income

The mean or average income received by individuals, that is, *total income* divided by the total number of people.

personal income

A measure of income used by the Bureau of Economic Analysis, defined as the income received by, or on behalf of, residents of a particular area. Includes *labor and proprietor income* less contributions for social insurance programs such as Social Security; dividends, interest, and rent; and transfer payments.

policy impact coding system:

Classifies all *nonmetro* counties according to their economic base, the presence of federally owned land, and population characteristics (including retirement and persistently poor).

poverty level or threshold

An income level below which a family, household, or individual is officially considered to be poor. Each year, the U.S. Office of Management and Budget establishes a series of poverty income levels for different family sizes and ages of household heads. For example, in 1989, the poverty level for a family of four was \$12,100.

poverty rate.

The proportion of people living below the poverty level, that is, the number of people (individuals, families, or households) who have incomes less than the poverty level divided by the total population.

primary data

Collected by a researcher for a specific study, using for example, personal or telephone interviews.

proprietor income

A term used by the Bureau of Economic Analysis to refer to income received by proprietors (self-employed persons), persons in business

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partnerships, and members of tax-exempt cooperatives.

real dollars

Current dollars that have been adjusted by the consumer price index to reflect inflation (or deflation). Economists adjust current dollars so they can measure the dollars' value in terms of the goods and services that can be purchased. Hence, 1989 income measured in *real* terms (for example) can be compared to 1970 income because the effect of inflation has been removed. Current dollars divided by the consumer price index equal real dollars.

quintile

A group that makes up one-fifth of the distribution of a given population. With respect to income, the lowest quintile of families has the characteristic that four-fifths of all other families in the population have higher incomes.

rural

A term used to describe all persons (or areas) that are not designated by the Census as *urban*.

sample design

The method used to select a sample of elements from a given population for purposes of analysis. Examples of sample designs are (1) random sampling, where a scientifically generated table of random numbers is used to select elements, and (2) systematic sampling, where every kth (for example, every 10th or 50th) element of the population is selected for analysis.

sampling rate or ratio

The proportion of elements in a population that is selected for analysis.

secondary data

Existing data that have already been collected and transferred to hard copy, microfiche, or a computer accessible format. Examples of secondary data sources are the *County and* City Data Book and reports from the decennial census.

service industry

Includes establishments that provide services to individuals, businesses, and governments. These are personal services, private household services, miscellaneous business and repair services, amusement and recreation services, professional, social, and related services, and hotels and other lodging places.

service sector

Includes all industries that produce no tangible product, such as transportation, communications, trade, establishments in the *service industry*, and government.

standard industrial classification (SIC) system The Federal government's method of grouping businesses and other establishments by the type of economic activity in which they are engaged.

survey data

Data collected with a questionnaire for specific research rather than in the course of an organization's normal business. Decennial census data are survey data.

time series data

Observations on the same unit (for example, on the per acre price of Iowa cropland or on median household income) at more than one (usually many) points in time.

total personal income

Summary income measure from the Bureau of Economic Analysis that includes all income: received by persons in a given area. See *personal income*.

transfer payments

Income received not in return for current services, for example, Unemployment Insurance, Social Security, Aid to Families with Dependent Children, and Medicare.

unearned income

Income from the ownership of property and other assets (that is, dividends, interest, and rent) plus *transfer payments*.

urban

Term used by the Census Bureau to describe the population of all persons living in *urbanized areas* as well as persons living in places of 2,500 or more inhabitants outside *urbanized areas*.

urbanized area

Central cities and surrounding densely settled territory with a combined population of at least 50,000 inhabitants.

wage and salary income

Income earned at a job. The "labor" component of *labor and proprietor income*.

APPENDICES

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4年期17月1日,1月1日,1月1日,1月1日,1月1日,1月1日 1月1日 - 1月1日,1月1日,1月1日,1月1日,1月1日,1月1日,1月1日。 1月1日 - 1月1日,1月1日,1月1日,1月1日,1月1日,1月1日,1月1日。

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Appendix A Selected	Appendix A Selected Data Series from the Bureau of the Census, U.S. Department of Commerce					
Series and/or Title	Description	Frequency	Format*	Comments		
POPULATION, CENSUS No. of Inhabitants (PC-1-A) General Pop. Char. (PC-1-B) General Soc. and Econ. Char. (PC-1-C)	Complete count and/or sample of items including demographic characteristics, education and labor force status, income by type and poverty status, urban/rural and metro/nonmetro breaks. Please see <i>Census Catalog and Guide 1988</i> , p. 9 for more detail.	Years ending in "0"	Published, fiche	1-A and B are available for MCDs, CCDs, county subdivisions and places. 1-C is available for places with pop. of 2,500 or more. Easy to use and available in local libraries.		
HOUSING, CENSUS General Housing Char. (HC-1-A)	Complete count of items including number of units, number of rooms and occupants, and value. Urban/ rural and metro/nonmetro breaks.	Years ending in "0"	Published, fiche	Data for county subdivisions— places with at least 1,000 pop. Frequently available in public libraries.		
POPULATION, CURRENT PROGRAMS Population Characteristics, ^b P-20	Marital status, household, and family characteristics, mobility, fertility, educational attainment, etc. Some metro/nonmetro classifications.	Annual	Published, fiche, on-line	Geographical detail below national level varies.		
Special Studies, ^b P-23	Various subjects, including blacks, youth, women, older people, metro/nonmetro residents.	Irregular	Published, fiche, on-line	Geographical detail below national level varies.		
Local Population Estimates, P-26	Estimates of population, components of change, and per capita income.	Irregular	Published, fiche, on-line, diskette	Estimates are made for counties and, in some cases, subcounty areas. Prepared jointly by state agencies and Census. Reliability of small place estimates is questionable.		
Farm Population, P-27	Age, race, and employment characteristics of the farm population.	Annual	Published, liche	Only available for the U.S. and regions but useful for measuring changes in the farm population.		
Consumer Income, ⁶ P-60	Money income, noncash benefits, and poverty status by demographic characteristics. Some metro/nonmetro classifications.	Annual	Published, fiche, on-line	National and regional.		
AGRICULTURE, CENSUS Geographic Area Series (AC-A)	Number and characteristics of farms and farm operators, land in farms, value of products sold, etc.	Years ending in "2" and "7"	Published, fiche, on-line	Data are available at county level.		
RETAIL TRADE, CENSUS Geographic Area Series (RC-A)	Number of establishments, employment, payroll, sales, etc., by various retail classifications.	Years ending in "2" and "7"	Published, fiche, on-line	Counties and cities with 500+ establishments, counties and cities with 2,500+ population.		
WHOLESALE TRADE, CENSUS Geographic Area Seres (WC-A)	Number of establishments, employment, payroll, sales, etc.	Years ending in "2" and "7"	Published, fiche, on-line	Counties and cities with 200+ establishments, counties and cities with 2,500+ population.		

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Series and/or Title	Description	Frequency	Format ^a	Comments
SERVICE INDUSTRIES, CENSUS Geographic Area Series (SC-A)	Number of establishments, receipts, payroll, and employ- ment by type of business.	Years ending in "2" and "7"	Published, fiche, on-line	Counties and cities with 750+ establish- ments, counties and cities with 2,500+ population.
MINERAL INDUSTRIES, CENSUS Geographic Area Series (MIC-A)	Value of shipments, value added by mining, employment, payroll, hours worked, etc., by SIC.	Years ending in "2" and "7"	Published, fiche, on-fine	Counties
COUNTY BUSINESS PATTERNS	Number of employees in mid-March pay period, total payrolls, number and employment size class of estab- lishments by 4-digit SIC, county. Federal employment and payroll for most states.	Annual	Published, fiche, diskette	Counties. Excludes farm and some other workers, also farmers and other self-employed.
GOVERNMENTS, CENSUS Governmental Organization (GC(1))	Local governments by type, size, and population; school systems by enroliment, etc.	Years ending in "2" and "7"	Published, fiche, on-line	Counties, municipalities, townships, school districts, special districts.
Taxable Property Values and Assessment-Sales Price Ratios (GC(2))	Assessed valuations, measurable sales, number of properties, etc.	Years ending in "2" and "7"	Published, fiche, on-line	Counties and cities of 50,000+ population.
Government Employment (GC(3))	Public employees, payrolls, October earnings, employ- ment by function, etc.	Years ending in "2" and "7"	Published, fiche, on-line	Type of government, counties.
Government Finances (GC(4))	Revenue by source and type, expenditures, debt infor- mation, etc.	Years ending in "2" and "7"	Published, fiche, on-line	Type of government, counties.
GOVERNMENTS, SURVEY Government Employment (GE)	Employment and payroll.	Annual	Published, liche	By size classification of counties, cities, townships.
Government Finances (GF)	Federal, state, and local finances.	Annual	Published, fiche, on-line	By size classification of counties and selected subcounty areas.
Quarterly Summary of Federal, State, and Local Tax Revenue (GT)	Revenue by level of government and type of tax, county property tax collections.	Quarterly	Published, fiche	By size classification of counties.
Consolidated Federal Funds Report	Grants, salaries and wages, procurement contracts, direct payments to individuals, other major programs.	Fiscal year	Published, fiche	Counties, municipalities, and townships (incorporated places only).
COUNTY AND CITY DATA BOOK	Statistical abstract supplement; data compiled from censuses, other agencies, and private sources. Population totals, income, education, etc.	Periodic	Published, fiche, on-line, diskette	Counties, incorporated places with 25,000+ population and places with 2,500+ population.
May also be issued on tape From Current Population Survey	· · · · · · · · · · · · · · · · · · ·		· ·	

Appendix B	Selected Items Colle for Counties ^a	ected an	d Published i	n the 1987 E	iconomic Ci	ensuses
lte	em	Retail Trade	Wholesale Trade	Service Industries	Manufac- turers	Mineral Industries
Number of Esta Establishmeni Establishmeni Establishmeni of organiza	iblishments and Firms Is with payroll Is without payroll ^o Is by legal form tion	•	•	• • •	•	•
Employment All employee Production w Employment Production w	s orkers size of establishments orker hours	•	.	•	• •	● - 3 - 3 ●
Payroll All employee All employee Production w	s, entire year s, first quarter orkers	•	•	•	•	●1.57 ●1.57
Sales, Receipts, For establishm For establishm	or Value of Shipments nents with payroll nents without payroll	● ●-1	● 39	● br ●:	•	•
Operating Expe Value added Capital expe	enses nditures, total		· .		• •	• •
"Some data are	e also available for plac	es with 2,9	500 inhabitants	or more		
^b Subject to Fed	eral income tax					
	rs," that is, businesses wh	nich do no	t employ any	workers		· .
source: 0.5. Department (or Commerce, sureculor the Census (4/					

Appendix C Regional Rural Development Centers

North Central Regional Center for Rural Development Iowa State University 578 Heady Hall Ames, Iowa 50011 Director: Peter Korsching Phone: (515) 294-8322

Southern Rural Development Center P.O. Box 5446 Mississippi State, Mississippi 39762 Director: Doss Brodnax Phone: (601) 325-3207 North East Regional Center for Rural Development Pennsylvania State University 104 Weaver Building University Park, Pennsylvania 16802 Director: Daryl Heasley Phone: (814) 863-4656 3.45

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Western Rural Development Center Oregon State University Ballard Extension Hall 307 Corvallis, Oregon 97331-3601 Director: Russ Youmans Phone: (503) 754-3621

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State	Federal Depository Library °	State Data Center	BLS Cooperating State Agency
Alabama	Auburn University at Montgomery Library	Center for Business & Economic Research University of Alabama Tuscaloosa (205) 348-6191	Research and Statistics Alabama Dept. of Industrial Relations Montgomery (205) 261-5461
Alaska	Alaska State Library Juneau	Alaska State Data Center Department of Labor Juneau (907) 465-4500	Research and Analysis Section Alaska Department of Labor Juneau (907) 465-4500
Arizona	Dept. of Library Archives and Public Records	Arizona Department of Economic Security Phoenix (602) 255-5984	Research Administrator Arizona Department of Economic Security Phoenix (602) 255-3616
Arkansas	Arkansas State Library Little Rock	State Data Center University of Arkansas - Little Rock Little Rock (501) 371-1973	Research & Statistics Section ES Division, Arkansas Department of Labor Little Rock (501) 682-3194
Californla	California State Library Sacramento	State Census Data Center Department of Finance Sacramento (916) 322-4651	Employment Development Department Employment Data & Research Division Sacramento (916) 427-4675
Colorado	Denver Public Library Denver	Division of Local Government Colorado Department of Local Affairs Denver (303) 866-2156	Labor Market Information Colorado Division of Labor & Employment Denver (303) 620-6316
Connecticut	Connecticut State Library Hartford	Comprehensive Planning Division CT Office of Policy & Management Hartford (203) 566-8285	Res. & Info., Employment Security Division Connecticut Department of Labor Wethersfield (203) 566-2120
Delaware	Delaware State College Dover	Delaware Development Office Dover (302) 736-4271	Off. of Occupational & Labor Market Info. Delaware Department of Labor Newark (302) 368-6962

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State	Federal Depository Library a	State Data Center	BLS Cooperating State Agency
District of Columbia	Department of Commerce Library	Data Services Division Mayor's Office of Planning Washington (202) 727-6533	Labor Market Information & Analysis D.C. Department of Employment Services Washington (202) 639-1642
Florida	University of Florida Libraries Gainesville	Florida State Data Center Office of Planning & Budgeting Tallahassee (904) 487-2814	Bureau of Labor Market Information FL Dept. of Labor & Employment Security Tallahassee (904) 488-1048
Georgia	University of Georgia Libraries Athens	Div. of Demographic & Stat. Services Georgia Office of Planning Budget Atlanta (404) 656-0911	Labor Information Systems Georgia Department of Labor Atlanta (404) 656-3177
Guam	Robert F. Kennedy Memorial Library Mangilao	Guam Department of Commerce Tomuning (671) 646-5841	
Hawaii	University of Hawaii Library Honolulu	Hawaii State Data Center State Dept. of Business Economic Dev. Honolulu (808) 548-3082	Research & Statistics Office Dept. of Labor & Industrial Relations Honolulu (808) 548-7639
Idaho	University of Idaho Library Moscow	Idaho Department of Commerce (208) 334-4714	Research & Analysis Idaho Department of Employment Boise (208) 334-6169
Illinois	Illinois State Library Springfield	Division of Planning & Financial Analysis Illinois Bureau of the Budget Springfield (217) 782-1381	Office of Economic Information & Analysis Illinois Department of Employment Security Chicago (312) 793-2316
Indiana	Indiana State Library Indianapolis	Indiana State Library Indiana State Data Center Indianapolis (317) 232-3735	LMI and Statistical Service IN Dept. of Employment & Training Services Indianapolis (317) 232-7701
lowa	University of Iowa Libraries Iowa City	Census Services Iowa State University Ames (515) 294-8337	Audit and Analysis lowa Department of Employment Services Des Moines (515) 281-8181

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State	Federal Depository Library °	State Data Center	BLS Cooperating State Agency
Kansas	Watson Library Lawrence	State Library Topeka (913) 296-3296	Research & Analysis Kansas Department of Human Resources Topeka (913) 296-5061
Kentucky	University of Kentucky Libraries Lexington	Urban Studies Center University of Louisville (502) 588-7990	Labor Market Research & Analysis Department for Employment Services Frankfort (502) 564-7976
Louisiana	LA State Univ.: Middleton Library Baton Rouge	Louisiana State Planning Office Division of Administration Baton Rouge (504) 342-7410	Louisiana Department of Labor Baton Rouge (504) 342-3140
Maine	Univ. of ME, Raymond Fogler Libr. Orono	Division of Economic Analysis & Research Maine Department of Labor Augusta (207) 289-2271	Division of Economic Analysis & Research Maine Bureau of Employment Security Augusta (207) 289-2271
Maryland	University of MD, McKeldin Library College Park	Maryland Department of State Planning Baltimore (301) 225-4450	Research & Analysis Division Maryland Dept. of Employment & Training Baltimore (301) 333-5000
Massachusetts	Boston Public Library Boston	MA Inst. for Social & Economic Research University of Massachusetts Amherst (413) 545-0176	MA Department of Employment & Training Boston (617) 727-6556
Michigan	Michigan State Library Lansing	Michigan Information Center Department of Management & Budget Lansing (517) 373-2697	Research & Statistics Division Michigan Employment Security Commission Detroit (313) 876-5445
Minnesota	Univ. of Minnesota: Wilson Library Minneapolis	State Demographic Unit Minnesota State Planning Agency St. Paul (612) 296-4886	Research & Statistics Division Minnesota Department of Jobs & Training St. Paul (612) 296-6545
Mississippi	University of Mississippi Library University	Center for Population Studies The University of Mississippi University (601) 232-7288	Labor Market Information Division Mississippi Employment Security Comm. Jackson (601) 961-7976

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State	Federal Depository Library 9	State Data Center	BLS Cooperating State Agency
Missouri	Missouri State Library Jefferson City	Missouri State Library Jefferson City (314) 751-3615	Research and Analysis Missouri Division of Employment Security Jefferson City (314) 751-3591
Montana	Univ. of Montana, Mansfield Library Missoula	Census and Economic Info. Montana Department of Commerce Helena (406) 444-2896	Center Research and Analysis Department of Labor & Industry Helena (406) 449-2430
Nebraska	Nebraska Library Lincoln	Commission Bureau of Business Research The University of Nebraska-Lincoln Lincoln (402) 472-2334	Labor Market Information Nebraska Department of Labor Lincoln (402) 475-8451
Nevada	University of Nevada Library Reno	Nevada State Library Capitol Complex Carson City (702) 271-2155	Employment Security Research Nevada Employment Security Department Carson City (702) 885-4550
New Hampshire	New Hampshire State Library Concord	Office of State Planning Concord (603) 271-2155	Economic Analysis and Reports NH Department of Employment Security Concord (603) 228-4123
New Jersey	Newark Public Library Newark	New Jersey Department of Labor Division of Planning & Research Trenton (609) 984-2593	Division of Planning and Research New Jersey Department of Labor Trenton (609) 292-2643
New Mexico	New Mexico State Library Santa Fe	Economic Development & Tourlsm Santa Fe (505) 827-0276	Dept. Employment Security Comm. of NM Tiwa Building Albuquerque (505) 841-8638
New York	New York State Library Albany	NY State Dept. of Econ. Development Albany (518) 474-6005	Division of Research & Statistics New York State Department of Labor Albany (518) 457-6181
North Carolina	U of NC at Chapel Hill Library Chapel Hill	NC Office of State Budget & Mgmt. Raleigh (919) 733-7061	Labor Market Information Division Employment Security Commission of NC Raleigh (919) 733-2936

ľ	State	Federal Depository Library a	State Data Center	BLS Cooperating State Agency
	North Dakota	ND State University Library Fargo	Department of Agricultural Economics North Dakota State University Fargo (701) 237-8621	Research and Statistics Job Service North Dakota Bismarck (701) 224-2825
	Ohio	State Library of Ohio Columbus	Ohio Data Users Center Ohio Department of Development Columbus (614) 466-2115	Labor Market Information Division Ohio Bureau of Employment Services Columbus (614) 481-5783
	Oklahoma	Oklahoma Department of Libraries Oklahoma City	Oklahoma State Data Center Oklahoma Department of Commerce Oklahoma City (405) 843-9770	Research and Planning Division Employment Security Commission Oklahoma City (405) 557-7110
	Oregon	Portland State Univ. Library Portland	Center for Population & Census Portland State University Portland (503) 229-3922	Research & Statistics Oregon Employment Division Salem (503) 378-3220
	Pennsylvanla	State Ubrary of Pennsylvania Harrisburg	Pennsylvania State Data Center Institute for State & Regional Affairs Middletown (717) 948-6336	Research & Statistics Division PA Department of Labor & Industry Harrisburg (717) 787-3265
	Puerto Rico	University of Puerto Rico Rio Piedras	Puerto Rico Planning Board Minillas Government Center San Juan (809) 728-4430	Department of Labor & Human Resources Bureau of Labor Statistics Hato Rey (809) 754-5339
	Rhode Island	Rhode Island State Library Providence	RI Statewide Planning Program Providence (401) 277-2656	Employment Security Research RI Department of Employment Security Providence (401) 277-3704
	South Carolina	South Carolina State Ubrary Columbia	Division of Research & Stat. Services South Carolina Budget & Control Board Columbia (803) 734-3780	Labor Market Information Division SC Employment Security Commission Columbia (803) 737-2660
	South Dakota	South Dakota State Ubrary Plerre	Business Research Bureau University of South Dakota Vermillion (605) 677-5287	Labor Market Information Center Department of Labor Aberdeen (605) 622-2314

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State	Federal Depository Ubrary	State Data Center	BLS Cooperating State Agency
Tennessee	TN State Library & Archives Nashviile	Tennessee State Planning Office Nashville (615) 741-1676	Research & Statistics Division TN Department of Employment Security Nashville (615) 741-2284
Texas	Texas State Library Austin	State Data Center Texas Department of Commerce Austin (512) 472-5059	Texas Employment Commission Austin (512) 463-2858
Utah	Utah State U., Merrill Library Logan	Office of Planning & Budget Salt Lake City Utah (801) 533-6082	Labor Market Information Services Department of Employment Security Salt Lake City (801) 533-2014
Vermont	Vermont Department of Libraries Montpelier	Office of Policy Res. & Coordination Montpelier (802) 828-3326	Office of Policy & Public Information VT Department of Employment & Training Montpelier (802) 229-0311
Virginia	University of VA: Alderman Library Charlottesville	Virginia Employment Commission Richmond (804) 786-8624	Economic Information Services Virginia Employment Commission Richmond (804) 786-5670
Washington	Washington State Library Olympia	Estimation & Forecasting Unit Office of Financial Management Olympia (206) 586-2504	Labor Mkt. & Economic Analysis Branch WA Employment Security Department Olympia (206) 438-4800
West Virgina	West Virginia University Library Morgantown	Community Development Division Governor's Office of Comm. & Ind. Dev. Charleston (304) 348-4010	Division of Labor & Economic Security WV Department of Employment Security Charleston (304) 348-2660
Wisconsin	State Historical Society Library Madison	Demographic Services Center Department of Administration Madison (608) 266-1927	Division of Employment & Training Policy Dept. of Industry, Labor & Human Relations Madison (608) 266-5843
Wyoming	Wyoming State Library Cheyenne	Institute for Policy Research University of Wyoming Laramle (307) 766-5141	Research and Analysis Section Employment Security Commission Casper (307) 235-3646
"Other libraries in ea	ach state are also designated as Federal Depositor	y Libraries. See Census Catalog and Guide for complete listir	ng or call the depository ilbrary nearest you.

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Appendix E Guide to the CCDB Files on Diskette

The County and City Data Book 1988 (CCDB) diskette files make a wide variety of small area data available to any user with an IBM-compatible microcomputer. Although the diskettes do not offer more information than the printed report, they do make it easier to manipulate and to display the data. Because the Census Bureau provides an easy to use, menu-driven utility program with each order, using the files requires no supplemental software or technical skills. In addition, the Census Bureau staff people, who developed the files are extremely helpful and go out of their way to make this particular product easy to use. Telephone inquiries are answered promptly.

Content

Census offers six file sets or packages of diskettes:

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File Set 1. Counties (18 diskettes). 209 data items for the U.S., 50 states, District of Columbia, and 3,139 counties and county equivalents.

File Set 2. Cities (4 diskettes). 139 data items for the U.S., 50 states. District of Columbia, and 957 cities with 25,000 or more inhabitants in 1980.

File Set 3. Places (3 diskettes). 6 data items for the U.S., 50 states, District of Columbia, and incorporated places with 2,500 or more inhabitants in 1986.

File Set 4. States (1 diskette). All data items from the County, City, and Place files for the U.S., 50 states, and the District of Columbia.

File Set 5. Divisions (25 diskettes, available in 7 subsets). All data items from the County, City, and Place files for each census division and its states, counties, cities, and places.

File Set 6. Special Subjects (20 diskettes, available in 2 subsets). Data from County and City file sets. Subset 1 (9 diskettes) contains demographic data for all counties and cities. Subset 2 (11 diskettes) contains economic data for all counties and cities.

Sets 1, 5, and 6 contain county data. Set 1 is most inclusive because it covers all counties and all data items in the published report. Set 5 is most appropriate for users who are interested in a specific region. Set 6 is most appropriate for those interested in only one subject area.

Each diskette in Sets 1-3 contains only a pair of files: a data file (extension .TXT) and a dictionary file (extension .DCT).¹ In the County File Set, the data files are numbered COF01.TXT through COF18.TXT, while the dictionary files are numbered COF01.DCT through COF18.DCT.

Each data file consists of one record or string of data for every geographic area in the set. For example, COF01.TXT contains 3,191 records—one for the U.S., each state, the District of Columbia, and each county and county equivalent. Every record in COF01.TXT includes four data items that identify and describe the geographic area a FIPS code,² a geographic level code that denotes whether the record is for a state or county, an MSA code, and the area name. It also includes 10 data items. The first 4 identifier variables in each file (COF01.TXT through COF18.TXT) are identical; only the data items differ.

¹Diskettes in sets 4-6 each contain Individual extracts from the three geographic area files. Therefore, instead of having two files, they have six.

²Each county in the U.S. has a unique 5-digit FIPS (Federal Information Processing Standard) code. The sequential codes are assigned alphabetically. Hence, the FIPS code for Autauga County in Alabama is 01001. "01" is for Alabama, "001" is for Autauga County.

Each dictionary file contains one record (or string of descriptive information) for each field or data item in the data file.

Ordering the Files

Cost of the CCDB 1988 files is:

File Set 1	\$ 264
File Set 2	\$ 96
File Set 3	\$ 84
File-Set 4	\$ 60
File Set 5	\$ 84 - 96/subset
File Set 6	\$ 156 for subset 1, \$180 for subset 2

The free technical documentation that accompanies each order explains how to use the diskettes. Also included with each order is a diskette containing an easy to use, menu-driven utility program that enables users to access, partition, and recombine the data.

Census offers a discount if more than one set is ordered. Subsets are available only for sets 5 and 6. Contact Customer Services (Order Desk), Bureau of the Census (301) 763-4100 for further information and order forms.

Using the Files

The *CCDB* files can be used with IBM compatible computers that have either two floppy disk drives or a hard disk. For purposes of describing how to use the files, we assume that readers have two floppy disk drives designated A and B and that they have ordered the County file set. The County file set contains a total of 36 files: 18 data files with the extension ".TXT" and 18 dictionary files with the extension ".DCT"

The steps in using the files are as follows:

- 1. Make back-up copies of all diskettes included in the order and read the Appendix called "UTILITY2 Program Documentation."
- 2. Insert the utility diskette in Drive A and one of the data diskettes in Drive B.
- 3. Type in "UTILITY2" and hit RETURN. The master menu will appear on the screen. Follow the directions on page A-2 of "UTILITY2 Program Documentation.

From the master menu, users can look at data from a file on the screen, produce a custom designed hard copy of the data, create a subset of data records and/or of data items, and string records from several files together. It is also possible to create an output file that can be loaded into LOTUS 1-2-3^M. The documentation describes each of these alternatives in detail.

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Acronyms Used in this Report

AHS	American Housing Survey
ARED	Agriculture and Rural Economy Division (ERS, USDA)
ARF	Area Resource File
BEA	Bureau of Economic Analysis (U.S. Department of Commerce)
BLS	Bureau of Labor Statistics (U.S. Department of Labor)
CBP	County Business Patterns
CCD	census county division
CDP	census designated place
CCDB	County City Data Book
CD-ROM	compact disc read only memory
CFFR	Consolidated Federal Funds Report
CPL	Consumer Price Index
CPS	Current Population Survey
DUSD	Data User Services Division (U.S. Bureau of the Census)
EIA	Energy Information Administration (U.S. Department of Energy)
EIS	environmental impact statement
ERS	Economic Research Service (USDA)
FICA	Federal Insurance Contributions Act
FTE	full-time equivalent
GNP	Gross National Product
GPO	Government Printing Office

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HRSA	Health Resources and Services Administration (U.S. Department of Health and Social Services)
LAPI	Local Area Personal Income
LPI	labor and proprietor income
MCD	minor civil division
MSA	metropolitan statistical area
NASS	National Agricultural Statistics Service (U.S. Department of Agriculture)
NCES	National Center for Educational Statistics (U.S. Department of Education)
NRC	National Research Council
NTIS	National Technical Information Service
OASDI	Old Age Survivors and Disability Insurance
OÈRI	Office of Educational Research and Improvement (U.S. Department of Education)
OMB	Office of Management and Budget
REIS	Regional Economic Information System (BEA, U.S. Department of Commerce)
SDC	State Data Center
SESA	State Employment Security Agency
SIC	Standard Industrial Classification
SSA	Social Security Administration
USDA	U.S. Department of Agriculture

Rural policymakers at all levels of the public and private sector need reliable data to do their work effectively. Their ability to plan and develop sound policy depends, in part, on whether they can find data and use it to understand conditions in rural America. And as rapid structural change alters our society and economy, policymakers' need for timely data becomes even more critical.

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Priscilla Salant is a research associate in the Department of Agricultural Economics at Washington State University. She received her B.S. degree in economics from the University of California at Berkelev and her M.S. degree in Agricultural Economics from the University of Arizona.

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Salant currently directs the Research Capacity Initiative, a pilot project of the Rural Economic Policy Program, sponsored by the Ford Foundation. The objectives of the project are to strengthen the research capacity of rural development practitioners and to facilitate their work with experienced researchers. A Community Researcher's Guide to Rural Data is the first publication from the project.

