This book aims to acquaint researchers, primarily in local organizations, with data they can use to describe and better understand rural communities. Chapter 1 describes a few basic data concepts for readers who are not experienced data users. 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. The chapter also explains where researchers can find data issued by these agencies, and where they can find more information by state or region. Chapters 3-5 show how researchers can use federal, state, and local data to understand social and economic change in very diverse rural communities. Data sources cover general population, education, labor force, income, housing, health, industry-specific data, and local government. Sample counties from the Economic Research Service County Typology groups are used to put the data sources in context. Appendices provide postal and electronic addresses and phone numbers for state and federal offices that house or collect data, and give details about Census Bureau publications and economic census programs. Contains 49 references, 36 data tables and figures, a glossary, and an index. (SV)
# A Quick Reference Guide to Rural Data Sources

<table>
<thead>
<tr>
<th>Subject</th>
<th>Best Source</th>
<th>Compiled By</th>
<th>See Page</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>GENERAL POPULATION</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Population count</td>
<td>Population Paper Listing</td>
<td>Census Bureau with states</td>
<td>42</td>
</tr>
<tr>
<td>Population age structure</td>
<td>State Reports</td>
<td>States</td>
<td>44</td>
</tr>
<tr>
<td>Education attainment</td>
<td>Census of Population</td>
<td>Census Bureau</td>
<td>45</td>
</tr>
<tr>
<td><strong>LABOR FORCE</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Labor force participation rate</td>
<td>Census of Population</td>
<td>Census Bureau</td>
<td>48</td>
</tr>
<tr>
<td>Unemployment rate</td>
<td>Unemployment in States and Local Areas</td>
<td>Bureau of Labor Statistics with states</td>
<td>49</td>
</tr>
<tr>
<td>Occupational makeup of the labor force</td>
<td>Census of Population</td>
<td>Census Bureau</td>
<td>49</td>
</tr>
<tr>
<td><strong>INCOME</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Poverty rate</td>
<td>Census of Population</td>
<td>Census Bureau</td>
<td>53-54</td>
</tr>
<tr>
<td>Per capita personal income</td>
<td>Regional Economic Information System</td>
<td>Bureau of Economic Analysis</td>
<td>56</td>
</tr>
<tr>
<td><strong>HOUSING</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Number and size of housing units</td>
<td>Census of Housing</td>
<td>Census Bureau</td>
<td>60</td>
</tr>
<tr>
<td>Building permits issued</td>
<td>Local and state reports</td>
<td>Local and state agencies</td>
<td>61</td>
</tr>
<tr>
<td><strong>HEALTH</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Health status and medical resources</td>
<td>County and City Data Book</td>
<td>Census Bureau</td>
<td>63</td>
</tr>
<tr>
<td><strong>ECONOMY</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Industrial makeup of the economy</td>
<td>Regional Economic Information System and other sources</td>
<td>Bureau of Economic Analysis and other agencies</td>
<td>70-71</td>
</tr>
<tr>
<td>Industry-specific information</td>
<td>Economic Census, state and national reports</td>
<td>Census Bureau, states and other Federal agencies</td>
<td>73-86</td>
</tr>
<tr>
<td><strong>GOVERNMENT</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Geographic distribution of Federal funds</td>
<td>Consolidated Federal Funds Report</td>
<td>Census Bureau</td>
<td>86</td>
</tr>
<tr>
<td>Local government finance</td>
<td>Local and state reports, Census of Governments</td>
<td>Local and state agencies, Census Bureau</td>
<td>90-93</td>
</tr>
</tbody>
</table>

The *County and City Data Book* is a statistical compendium that contains data on each of the subjects listed above. It is available in many public libraries and from the Government Printing Office. See page 36 for ordering information. The individual data sources are also available from State Data Centers and in many public libraries. See Appendix D for addresses and phone numbers.
About Island Press

Island Press is the only nonprofit organization in the United States whose principal purpose is the publication of books on environmental issues and natural resource management. We provide solutions-oriented information to professionals, public officials, business and community leaders, and concerned citizens who are shaping responses to environmental problems.

In 1994, Island Press celebrated its tenth anniversary as the leading provider of timely and practical books that take a multidisciplinary approach to critical environmental concerns. Our growing list of titles reflects our commitment to bringing the best of an expanding body of literature to the environmental community throughout North America and the world.


About the Rural Economic Policy Program

Established in 1985, the Rural Economic Policy Program (REPP) fosters collaborative learning and innovation to advance rural community and economic development in the United States. REPP aims to help rural decision-makers better understand how local choices and opportunities fit into the larger economy, and to speed the adoption of a comprehensive set of public and private initiatives that will sustain rural progress and improve the lives of rural people. Headquartered at The Aspen Institute in Washington, D.C., REPP is funded by the Ford and W.K. Kellogg Foundations. The Aspen Institute is an international organization whose programs enhance the ability of leaders in business, government, the nonprofit sector, academia, and the media to understand and act upon the issues that challenge the national and international community.

For more information about REPP or REPP publications, please write to: Rural Economic Policy Program, The Aspen Institute, 1333 New Hampshire Avenue, NW, Suite 1070, Washington, DC 20036. Or call REPP Program Assistant Diane Morton at (202) 736-5804.
Guide to Rural Data

Revised Edition
Guide to Rural Data
Revised Edition

Priscilla Salant and Anita J. Waller
Rural Economic Policy Program
of The Aspen Institute

Washington, D.C. & Covelo, California
Contents

List of Tables and Figures ................................................. xi
Acknowledgments ............................................................ xv

Introduction

Background ........................................................................... 1
What Are “Rural” Data? ......................................................... 2
Organization of the Book ....................................................... 5

1

Data Concepts

Kinds of Data ........................................................................... 8
How Data Are Available .......................................................... 8
Population versus Sample Data ............................................... 10
Census Geography and the Notion of Rural ...................... 11
Mapping: A New Way to Visualize Data .............................. 16
Public versus Private Data ..................................................... 18

2

Overview of Sources

The Decennial Census of Population and Housing ......................... 19
Current Population Reports and Surveys .................................. 26
Other Censuses ................................................................. 26
Other Surveys from the Census Bureau ...................................... 28
Other Economic Data .......................................................... 28
Labor Market Information ..................................................... 33
Where to Find Data Products ............................................... 33
The Freedom of Information Act ........................................... 34
Useful Reference Materials and Statistical Compendia ............. 35
Local and Regional Information .......................................... 38
Summary ............................................................................ 39
## 3
Characterizing Local Population and Community Resources

<table>
<thead>
<tr>
<th>Topic</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>The General Population</td>
<td>41</td>
</tr>
<tr>
<td>Education</td>
<td>45</td>
</tr>
<tr>
<td>Labor Force</td>
<td>48</td>
</tr>
<tr>
<td>Income</td>
<td>51</td>
</tr>
<tr>
<td>Bureau of the Census</td>
<td>53</td>
</tr>
<tr>
<td>Bureau of Economic Analysis</td>
<td>55</td>
</tr>
<tr>
<td>Social Security Administration</td>
<td>58</td>
</tr>
<tr>
<td>Housing</td>
<td>59</td>
</tr>
<tr>
<td>Health</td>
<td>62</td>
</tr>
</tbody>
</table>

## 4
Understanding the Economies of Rural Communities

<table>
<thead>
<tr>
<th>Topic</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overview of Local Economic Structure</td>
<td>65</td>
</tr>
<tr>
<td>Employment</td>
<td>65</td>
</tr>
<tr>
<td>Earnings</td>
<td>72</td>
</tr>
<tr>
<td>Industry-Specific Data</td>
<td>73</td>
</tr>
<tr>
<td>Agriculture</td>
<td>75</td>
</tr>
<tr>
<td>Forestry</td>
<td>77</td>
</tr>
<tr>
<td>Mining</td>
<td>80</td>
</tr>
<tr>
<td>Manufacturing</td>
<td>82</td>
</tr>
<tr>
<td>Trade</td>
<td>83</td>
</tr>
<tr>
<td>Services</td>
<td>84</td>
</tr>
<tr>
<td>The Role of the Federal Government</td>
<td>86</td>
</tr>
</tbody>
</table>

## 5
Analyzing Government in Rural Communities

<table>
<thead>
<tr>
<th>Topic</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Local Government Structure</td>
<td>89</td>
</tr>
<tr>
<td>Local Government Finance</td>
<td>90</td>
</tr>
<tr>
<td>Public Employment</td>
<td>93</td>
</tr>
</tbody>
</table>


## Glossary 97

## Appendices 103

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Selected Data Series from the Bureau</td>
<td>104</td>
</tr>
<tr>
<td>of the Census, U.S. Department of Commerce</td>
<td></td>
</tr>
<tr>
<td>B. Selected Items Collected and Published in</td>
<td>111</td>
</tr>
<tr>
<td>the 1992 Economic Censuses for Counties</td>
<td></td>
</tr>
<tr>
<td>C. Regional Rural Development Centers</td>
<td>112</td>
</tr>
<tr>
<td>D. Depository Libraries, State Data Centers,</td>
<td>113</td>
</tr>
<tr>
<td>and BLS Cooperating Agencies</td>
<td></td>
</tr>
<tr>
<td>E. Census Bureau Regional Information Services</td>
<td>125</td>
</tr>
<tr>
<td>and Special Topic Information Centers</td>
<td></td>
</tr>
<tr>
<td>F. Electronic Data Access</td>
<td>127</td>
</tr>
</tbody>
</table>

## References 129

## Index 133
List of Tables and Figures

Tables

Table 1 The Census Bureau works with individual states to make annual population estimates for all U.S. counties ................................................................. 42
Table 2 Both natural change and net migration contribute to population change ......................................................... 43
Table 3 The Census Bureau publishes school enrollment data in its County and City Data Book ....................................................... 46
Table 4 The decennial census provides demographic details about the local labor force ..................................................... 49
Table 5 BLS works with the states to make labor force estimates for counties ................................................................. 50
Table 6 The decennial census provides small-area data on the number and characteristics of poor people ................................. 54
Table 7 The County and City Data Book includes limited health status and resource data .................................................... 64
Table 8 Four sources of employment statistics for Nicholas County, West Virginia ................................................................. 67
Table 9 Which data source is most appropriate depends on the research question ................................................................. 68–69
Table 10 State Employment Security Agencies publish annual data on earnings by industry .................................................... 73
Table 11 State field offices of the National Agricultural Statistics Service publish annual production and marketing data ................................................................. 76
Table 12 Mining data come from the census of mineral industries ......................................................................................... 81
Table 13 County Business Patterns adds some detail to economic censuses like the census of manufactures ................................. 83
Table 14 The census of service industries provides data on industries that are becoming more important to some rural communities ................................................................. 85
Table 15 Government Organization, a report from the census of governments, is a primer on local governments and public school systems ........................................ 90

Figures

Figure 1 Census regions and geographic divisions of the United States ......................................................... 12
Figure 2 National geographic relationships .......................................................... 13
Figure 3 Census small-area geography .............................................................. 14
Figure 4 Nonmetro and metro counties in the United States ................................................. 15
Figure 5 LandView software can be used to generate maps for small areas ......................... 17
Figure 6 Major sources of data on nonmetro and rural areas .............................................. 20
Figure 7 Part of a sample page from the 1990 Census of Population Social and Economic Characteristics (CP90-2) ..................................................... 24
Figure 8 Part of a sample page from County Business Patterns ........................................... 29
Figure 9 Part of a sample page from Local Area Personal Income 1969–1992 ......................... 31
Figure 10 Part of a sample page from the County and City Data Book ..................................... 37
Figure 11 State analysts make intercensal estimates of population age structure ................. 44
Figure 12 The decennial census is the only source of educational attainment data for counties and subcounty areas .................................................................................. 46
Figure 13 The decennial census provides detailed information on the types of jobs people have ................................................................. 50
Figure 14 BEA estimates per capita personal income by source ............................................ 57
Figure 15 BEA provides detailed component estimates of government transfer payments .... 58
Figure 16 Some states estimate housing numbers by using building permit data .................. 61
Figure 17 Researchers can use BEA earnings data to analyze the economic structure of individual counties ......................................................... 66
Figure 18  The *Consolidated Federal Funds Report* enables researchers to track the geographic distribution of Federal money. .................................................. 87

Figure 19  The *Compendium of Government Finances* provides data on local government revenue ........................................ 91

Figure 20  The *Compendium of Government Finances* also provides data on local government expenditures ............. 93

Figure 21  The *Compendium of Public Employment* provides data on public service employees and earnings ............ 94
Acknowledgments

The first edition of this book, *A Community Researcher's Guide to Rural Data*, was funded by a grant from the Rural Poverty and Resources Program of The Ford Foundation with assistance from the Rural Economic Policy Program (REPP) of The Aspen Institute. The revised edition was funded with support from The Kellogg Foundation, again with help from REPP. We gratefully acknowledge the generous financial support from each of these organizations and their staffs (present and former). They include Norm Collins, Cynthia Duncan, Meriwether Jones, and Susan Sechler.

In addition, the authors would like to thank the patient and dedicated employees of Federal agencies who answered our innumerable questions. People at the Census Bureau (especially in the Denver Regional Office) and the Bureau of Economic Analysis gave us public service at its very best.

Many reviewers and others provided thoughtful comments on the first edition, and we kept their suggestions in mind as we made our revisions. They include Peggy Adams, Paul Barkley, Henry Carey, Annabel Cook, Ron Faas, Peggy Ross Cook, Richard Salant, Barbara Smith, Marty Strange, and Kathryn Wallman. Deb Schwenson in the Department of Agricultural Economics at Washington State University provided invaluable help with the logistics of preparing a final draft. Thanks also to the staff of the Denver Card Company for their excellent service.

Special thanks are due to Roger Sonnichsen for his support and for graciously living with the project after it exceeded the bounds of the home office. Thanks also to Deloris and Tom Waller for years of encouragement and enthusiasm. Finally, thanks to the following people for their time when they had better things to do: Kay Chapman, Brenda Jepsen, George Gunn, and Dennis Waller.
Introduction

The first edition of this book, *A Community Researcher's Guide to Rural Data*, 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 development policy. 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, our purpose in writing this book is to acquaint researchers with data they can use to describe and better understand rural communities. We have written primarily for people in locally based organizations, but we hope that researchers in universities, state government, and policy institutes will also find the book useful.

Background

Rural America has experienced dramatic demographic and economic changes in the last several decades. During the 1960s and '70s, 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 and news from the heartland became relentlessly discouraging. The income gap began to grow again and migration from rural to urban areas resumed.

Although population data from the early 1990s show that conditions are improving in many small towns, national-level statistics still tell of a rural America that lags behind the rest of the country in income and job growth. Poverty and unemployment rates are higher, education levels lower, and the effects of recession often more severe. Especially in the Midwest, many rural places are steadily losing population as people leave in search of better jobs. In small communities that have been hard hit economically and lost population, access to health care, education, and other services is often a serious problem.

People who work with and live in rural places are searching for new development models that promise more stability and prosperity than in the past. While some people still yearn for the “good old days,” others agree that if rural communities are to survive—let alone prosper—they must find new
Introduction

goods to produce, new services to offer, and new ways of interacting with each other and the world around them. Many communities are making progress toward these goals by finding new ways to cooperate, share resources, and take advantage of savings that often come with increased size (17). Accomplishing these goals is an enormous challenge that requires reliable information and analysis.

Unfortunately, data collection efforts have not kept pace with changing rural conditions. Part of the reason for the gaps in rural data is obvious: the cost of collecting reliable statistical data increases as population becomes more sparse. To save money, most data collection activities use sample designs that yield more information for urban than rural areas. Sampling rates typically used in national surveys produce enough observations to make estimates with relatively small sampling errors in urban areas but not in rural areas. Despite these problems, a wealth of secondary data is available to describe rural places, people, and businesses. This book documents these data sources for both experienced researchers and local decision makers who are unfamiliar with statistical data.¹

What Are "Rural" 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 standard is the urban/rural designation used by the Bureau of the Census in its decennial count of population and housing units. According to the Bureau's definition, an urban area is any incorporated or unincorporated place with a population of at least 2,500. Everything else is rural.

The second standard is the metropolitan designation assigned to every U.S. county by the Office of Management and Budget. Counties are considered metropolitan if they have a city with a population of at least 50,000 or close economic ties with such a city. All other counties -- 2,276 in 1993 -- are nonmetropolitan. Because the county is the building block of the vast majority of Federal data systems, nonmetro counties are the building blocks of rural data systems, if only by default.

We emphasize that almost without exception, data on rural places in the United States are based on one of these two definitions. When it comes to statistics, the designation of "rural" refers either to a place with less than 2,500

¹Underlined numbers in parentheses refer to sources listed in the Reference section of this book beginning on page 126.
²Readers interested in the status of and outlook for rural data are referred to Rural Information Systems: New Directions in Data Collection and Retrieval (2).
What Are “Rural” Data?

people or to a nonmetropolitan county. Because very few Federal agencies collect data in a way that yields statistics on places with populations of less than 2,500, most of the data we use to describe “rural” places actually describes nonmetropolitan counties.

Luckily, we can speak a little more precisely about nonmetro counties by using two classification schemes developed by the USDA’s Economic Research Service (ERS). The first is the Beale coding system, which classifies six groups of nonmetro counties according to how urban or rural their population is (based on the Census Bureau’s definition of “rural”) and whether or not they are adjacent to metropolitan areas (see box). At one end of the nonmetro spectrum are “urbanized adjacent” counties that have an urban population of at least 20,000 and are adjacent to a metro area. At the other end are “totally rural nonadjacent” counties that (1) have no urban population (that is, no place with a population of at least 2,500) and (2) are not adjacent to a metro area. (Codes for all U.S. counties are available on diskette from “ERS Data,” Room 228, 1301 New York Avenue N.W., Washington, DC, 20005-4788. Call (202) 219-0534 for more information.)

The second classification scheme we can use to be more precise about nonmetro counties is the ERS County Typology system, which ERS recently revised (4). It includes six mutually exclusive economic types. Five of them—farming, mining, manufacturing, government, and services—reflect dependence on particular economic specializations. A sixth type, called “nonspecialized,” includes counties not classified as having any of the five

<table>
<thead>
<tr>
<th>Beale Nonmetro County Classification</th>
<th>Number of Counties</th>
</tr>
</thead>
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<tr>
<td>Urban population of 20,000 or more, and adjacent to a metro area</td>
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</tr>
<tr>
<td>Urban population of 20,000 or more, and not adjacent to a metro area</td>
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</tr>
<tr>
<td>Urban population of 2,500-19,999, and adjacent to a metro area</td>
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</tr>
<tr>
<td>Urban population of 2,500-19,999, and not adjacent to a metro area</td>
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<tr>
<td>Completely rural (no places with a population of 2,500 or more), and adjacent to a metro area</td>
<td>241</td>
</tr>
<tr>
<td>Completely rural (no places with a population of 2,500 or more), and not adjacent to a metro area</td>
<td>525</td>
</tr>
<tr>
<td>Total nonmetro counties</td>
<td>2,276</td>
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</table>
### Definitions used in the ERS County Typology (4)

#### Economic Types

**Farming-dependent**  Farming contributed a weighted annual average of 20 percent or more of total labor and proprietor income over the three years from 1987 to 1989. There are 556 farming-dependent counties.

**Mining-dependent**  Mining contributed a weighted annual average of 15 percent or more of total labor and proprietor income over the three years from 1987 to 1989. There are 146 mining-dependent counties.

**Manufacturing-dependent**  Manufacturing contributed a weighted annual average of 30 percent or more of total labor and proprietor income over the three years from 1987 to 1989. There are 506 manufacturing-dependent counties.

**Government-dependent**  Government activities contributed a weighted annual average of 25 percent or more of total labor and proprietor income over the three years from 1987 to 1989. There are 244 government-dependent counties.

**Services-dependent**  Service activities (private and personal services, wholesale and retail trade, finance and insurance, transportation and public utilities) contributed a weighted annual average of 50 percent or more of total labor and proprietor income over the three years from 1987 to 1989. There are 323 services-dependent counties.

**Nonspecialized**  Counties not classified as a specialized economic type over the three years from 1987 to 1989. There are 484 nonspecialized counties.

#### Policy Types

**Retirement-destination**  The population aged 60 years and over in 1990 increased by 15 percent or more from 1980-90 through in-migration of people. There are 190 retirement-destination counties.

**Federal lands**  Federally owned lands made up 30 percent or more of a county’s land area in 1987. There are 270 Federal lands counties.

**Commuting**  Workers aged 16 years and over commuting to jobs outside their county of residence were 40 percent or more of all the county’s workers in 1990. There are 381 commuting counties.

**Persistent poverty**  Persons with poverty-level income in the preceding year were 20 percent or more of total population in each of four years: 1960, 1970, 1980, and 1990. There are 535 persistent poverty counties.

**Transfers-dependent**  Income from transfer payments (Federal, state, and local) contributed a weighted annual average of 25 percent or more of total personal income over the three years from 1987 to 1989. There are 381 transfers-dependent counties.
economic specializations. The ERS County Typology scheme also identifies five overlapping, policy-relevant types: retirement-destination, Federal lands, persistent poverty, commuting, and transfers-dependent.

State tables containing the ERS county classification codes, with descriptive profiles of the different county types, are available from the ERS AutoFAX Service. (Dial (202) 219-1107 and request information directory document number 5600. See the box in Chapter 4 in the section “Agriculture” for details on using the ERS AutoFAX.) The state tables are also available via Internet-Bitnet. (E-mail Peggy J. Cook, PROSS@ERS.BITNET, or Karen Mizer, KMIZER@ERS.BITNET, for complete information.)

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 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 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. The economic censuses that are conducted every five years permit us to describe the structure and activity of the most important industries in each county in the United States (albeit with few details). The Bureau of Economic Analysis estimates annual county-level per capita and total personal income and its components. And, data published in the County and City Data Book describe the health resources and status of county populations.

Who needs this kind of data? The answer is: people who analyze and 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 book is to help them find what they need.

Organization of the Book

Chapter 1 describes a few basic concepts for readers who are not experienced data users. The topics discussed are: primary vs. secondary data; survey vs. administrative data; sample vs. population surveys; the media in which data are available; census geography; data mapping; and public vs. private data.
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. The chapter concludes by explaining where researchers can find data that are issued by these agencies, as well as where they can find more information about their state and region.

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 the ERS County Typology groups are used to put the data sources in context. 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, population change, and persistent rural poverty.

The sample counties are:
- Attala County, Mississippi, a “nonspecialized,” “persistent poverty,” and “transfers-dependent” county;
- Coos County, New Hampshire, a “manufacturing-dependent” county;
- Kossuth County, Iowa, a “farming-dependent” county;
- Latah County, Idaho, a “government-dependent” county;
- Nicholas County, West Virginia, a “mining-dependent” and “transfers-dependent” county; and
- Yavapai County, Arizona, a “services-dependent,” “retirement destination,” and “Federal lands” county.

The appendices provide readers with postal and electronic addresses and phone numbers for state and Federal offices that house or collect data. They also give details about Census Bureau publications and economic census programs. A glossary at the end of the book gives definitions of research and statistical terms and, finally, a reference table on the inside back cover explains acronyms used in the text.

Several comments before we begin: First, most of this book 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). We also encourage people to pursue contacts in their own communities, as well as state resources (see Appendix D).

Second, knowing where to find reliable data is only one important part of research. Also critical is interpretation and analysis for decision making. To find out what kind of analysis has been done on rural communities in your
state or region, contact your state land grant university, Regional Rural Development Center, or state Rural Development Council. These organizations are discussed at the end of Chapter 2.

Finally, three 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 individual 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.

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 book 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 useful research on rural communities.

Third, we have tried to provide accurate addresses and phone numbers for the various information contacts in this book. However, many agencies move or change phone numbers periodically. If you are unable to reach a contact with the information we provide here, please persevere by calling directory assistance or the state or regional office of the agency you are trying to contact.
Data Concepts

*data* . . . things known or assumed; facts or figures from which conclusions can be inferred; information (6)

*statistics* . . . facts or data of a numerical kind, assembled, classified, and tabulated so as to present significant information about a given subject (9)

Kinds of Data

Statistical data come from either primary or secondary sources. *Primary data* are those collected directly by a 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 a researcher uses for his or her particular analysis. This book is solely concerned with secondary data sources. To the extent that you find secondary sources inadequate (because of detail, accuracy, or timeliness), you may want to collect primary data. Methods to consider include conducting survey research, content analysis, or the case study technique (16).

Secondary data are collected in either survey form (by the Census Bureau, for example) or administratively in the course of an organization’s normal business (by the Internal Revenue Service or Social Security Administration, for example). Both survey and administrative data are discussed in this book.

How Data Are Available

Statistical data are typically issued in one or both of two formats. The first is "hard copy," either in a publication or on a computer printout. Published data and computer printouts require no special equipment to use and are, at least for now, the most readily available. However, they are also the bulkiest and often do not contain as much detail as other formats, nor are they regularly reissued when data are revised. Furthermore, hard copy data must be manip
ulated or "recombined" by hand. Only occasionally do government agencies accept requests for computer printouts of specially tabulated data.

The second format in which statistical data are issued is electronic, that is, computer readable on either diskette, CD-ROM, tape, or "online." Data diskettes are available from many agencies and are commonly used for relatively small data sets. CD-ROMs are compact disks with "read-only" memory and much larger storage capacities than diskettes. They are expensive for the occasional data user and require a special computer drive to use, but they are increasingly available in libraries. Diskettes and CD-ROMs often come with utility software that makes them user friendly. In addition, more and more software is being written to meet the needs of less-specialized users.

Tapes are used only by researchers who have access to a mainframe computer and who need very large data sets. They typically require programming expertise to use.

Online data files can be accessed with a modem device, which makes it possible for computers to communicate with each other via telephone lines. Using a modem, you can read or obtain online data by connecting your personal computer to one of a variety of online commercial services, such as Prodigy or CompuServe. One example of an online database is the Census Bureau's CENDATA. It is accessible through CompuServe and DIALOG information services (see Appendix F). Even without subscribing to a commercial service, you can access some online databases on electronic bulletin

Public agencies make data available through the Internet . . .

The Census Bureau and many other agencies are beginning to put data online so people with personal computers and a modem no longer need bulky, hard copy reports. For example, CENDATA is the Census Bureau's online database. It gives data users access to basic information about where to go for help with Census data, as well as more detailed information, including definitions of Census geography, press releases, data from the 1990 Census of Population and Housing and the 1992 Economic Censuses, and other Census programs.

If you have access to Internet or a commercial service account, you can send electronic mail and also hook into computer sites where data and other information are stored. Giving complete instructions on how to access all the different databases that might be of interest to our readers is beyond the scope of this book. However, we have provided names, Internet addresses, and telephone numbers for agencies that provide online data (see Appendix F). Since more organizations go online all the time, we suggest that readers contact specific agencies to find out what data are available.
board services (BBS) for the cost of the phone call (long distance in most cases).

Many agencies use a hybrid of electronic technology that enables data users to access hard copies of reports via facsimile or "fax." Usually, this involves calling from the touch-tone phone on a fax machine, selecting numerical options in response to a recorded menu, and immediately (or later when you leave your fax number) receiving a hard copy by return fax.

This book focuses on data that are publicly accessible, either in hard copy or electronic format, online, or in depository libraries. Researchers should contact the issuing agency if they require tape files and have the necessary hardware and expertise.

**Population versus Sample Data**

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, for example, the Census Bureau has also enumerated housing units.

Planning for the 1990 decennial census began in the early 1980s. Its total cost was roughly $2.6 billion. By mid-1990, the Bureau employed about 476,000 temporary workers in addition to its regular staff. The cost of each census has been increasing. In 1980, the cost per person was about $4, while in 1990 it was about $10. Much of the increase has been due to more extensive follow-up work to improve response rates. Now that the 1990 census population reports are all issued, data are available for areas as small as single blocks.

Contrast the decennial census with the Census Bureau’s Current Population Survey (CPS), a monthly survey that gathers information from a sample of the population—about 50,000-60,000 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 national unemployment rate and the percentage of families with income below the poverty level.

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

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 fewer data. To better understand this point, consider the case of poverty estimates from the Bureau of the Census. Using only CPS sample data, 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 non-South), and for certain demographic groups (such as female-headed households in nonmetro areas). The Federal government gets the statistics it needs (and saves money) by surveying only a representative sample in between the decennial census years.

Many of the data sources described in this book are derived from samples of a population rather than from censuses. How the sample is selected, how large it is, and how much variation it contains all affect how much confidence we can have in the accuracy of sample estimates. A larger, more uniform sample yields more precise estimates, that is, a smaller sampling error. We encourage readers who use secondary, sample data to take sampling error into account; it is typically explained in the technical documentation for each data source.

Census Geography and the Notion of Rural

The U.S. Census Bureau, which produces much of the data discussed in this book, 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 to collect and organize the data (such as census tracts and block groups). 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 (3,143 plus 78 in Puerto Rico and 91 in outlying areas such as Guam and American Samoa).

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2For a nontechnical discussion of sampling, see How to Conduct Your Own Survey (16). Note that some data collected in the decennial census are also sample based. See Chapter 2.

3This discussion is abstracted from “A Guide to State and Local Census Geography” (344) and Census Catalog and Guide: 1994 (23).
Figure 1  Census regions and geographic divisions of the United States.

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 30,000 total), or (2) census county divisions (CCDs). CCDs are statistical units designated by the Census Bureau in states where MCDs do not exist or are not functioning governments. They total 5,581 (plus 37 boroughs and 40 "census subareas" in Alaska, and 282 "unorganized territories" in various states).

In addition to being divided into counties (and MCDs and CCDs), states are also divided into (1) incorporated places, which are governmental designations; (2) census designated places (CDPs), which are unincorporated, closely settled population centers usually with populations of at least 1,000, and (3) consolidated cities, a special governmental unit recognized for the first time in the 1990 decennial census. Consolidated cities are units of local government in which the local incorporated government has merged with the county or MCD. 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. 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 divided the entire United States into blocks for the 1990 Census. The definition of a block is a “polygon with discernable geographic features.” Blocks have no minimum population. In 1990, the average block size was 70 people.

In rural areas, block boundaries may be visible features such as roads, powerlines, and shorelines. They may also include features such as fence lines, canyons, and ravines. Block-level statistics include all those data collected on the Census Bureau’s “short-form” questionnaire (see Chapter 2). This information is available through all State Data Centers (see Appendix D).

Figure 3 illustrates Census Bureau small-area geography. In this scheme, the county is the largest area. It contains (1) MCDs or CCDs, and (2) census tracts or block numbering areas (BNAs). Each census tract or BNA is made up of several block groups (BGs) and consists of several individual blocks identified by a 3-digit number. For example, in Figure 3, BNA #502 has three...
block groups. The four blocks numbered 301-304 make up Block Group 3 within BNA #502.

In nonmetropolitan counties, which we discuss below, BNAs have an average population of under 4,000. Block groups average about 700 people, and blocks about 30. In more sparsely populated areas, blocks typically cover a larger geographic area; the reverse is true for more densely populated areas (36, 24).

Block-level data are only available on computer tape (Summary Tape File 1B) and laser disk (CD-ROM). Many data users like to use the CD-ROM (1990 Census of Population and Housing Block Statistics, CD90-1B-1). To find out where blocks are located and identify a particular location by block number, one must look at an actual Census map of the area, beginning with the county and moving to subsequently smaller geographic divisions. Depository libraries equipped to use CD-ROM usually have corresponding maps for the state. Alternatively, contact your regional Census Bureau office or State Data Center (see Appendices D and E).

The Census Bureau uses two other classification schemes that are pertinent to rural data use. As explained in the Introduction, the first scheme classifies all counties as either metropolitan or nonmetropolitan. The Office of Management and Budget (OMB) has designated some 254 metropolitan statistical areas (MSAs). In New England, MSAs consist of cities and towns, but
elsewhere they are made up of one or more whole counties around a large population center, together with adjacent communities which are socially and economically integrated with the central county. Integration is measured in terms of the number of workers who commute to the central county.

An MSA must have either: (1) a city (i.e., an incorporated place) with a population of at least 50,000; or (2) 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 (75,000 in New England). For the precise definition, see "A Guide to State and Local Census Geography" (34). OMB reviews the official MSA definition each decade prior to the decennial census.

People who live in metropolitan counties comprise the metro population, while everyone else makes up the nonmetro population. In 1993, OMB classified 2,276 counties as nonmetropolitan based on 1990 census data. These counties are indicated in Figure 4.

The second scheme 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 with a population of at least 2,500 are classified

Figure 4  Nonmetro and metro counties in the United States.

as urban. The rest of the population is considered rural. Further subcategories are possible, such as "rural farm/rural nonfarm" and "rural places (less than 2,500)/other rural (nonplace)."

The metro/nonmetro and urban/rural schemes are based on different concepts so they are not interchangeable, although many people confuse the two. For anyone who uses "rural" data, it is essential to understand that the Census Bureau's urban/rural split actually cuts across the metro/nonmetro split—urban areas exist within nonmetro counties and rural areas exist within metro counties.

Two useful publications on Census Bureau geography...

"A Guide to State and Local Census Geography" (34) includes diagrams, definitions for all Census geographic areas, and a glossary. It also profiles each state by population, land area, and the number and type of each geographic area, including American Indian and Alaska Native Areas (AI/ANAs).

"Maps and More: Your Guide to Census Bureau Geography" (36) is a brochure that defines each type of geographic area, explains small-area Census geography in detail, and tells how to read census tract and county block maps. It also lists available maps and related data products, and describes TIGER, the Census Bureau's new system for integrating data and maps.

Mapping: A New Way to Visualize Data

One of the most exciting, recent innovations in information technology is the set of tools that enables data users to show information on maps. Briefly, this technology links socioeconomic or other data to geographic coordinates. For example, it is now relatively easy to visually display on a map how poverty rates vary within a county, or how groundwater contamination is concentrated in areas with certain types of agricultural production.

To help automate mapping for the 1990 decennial census, the Census Bureau worked with the U.S. Geological Survey to develop a database of geographic and map information. The result is the TIGER database, which stands for Topologically Integrated Geographic Encoding and Referencing. The earliest version of TIGER required a large computer with a "digitizer" or device that allows the user to convert spatial measurements into digital, computer readable data. However, the 1992 TIGER files are available on CD-ROM and come with LandView, a public domain software program developed by the Environmental Protection Agency. It allows users to create maps with a personal computer and then link the maps with selected 1990 census data.
Figure 5  LandView software can be used to generate maps for small areas.
Using LandView, data users can generate a map that includes 1990 census tracts, block numbering areas (BNAs), block groups (BGs), and blocks, and displays selected, block group-level data. Depository libraries that have the new version of TIGER will also have the LandView software. Even though LandView can be used on a personal computer, loading all the data for any given geographic area, even counties, takes some time because of the large files. If you want to create a map, call your library ahead of time to let them know you are coming and to specify the geographic areas in which you are interested. You can also contact your Census Bureau regional office for help.

A word about LandView: This software is a great step toward making mapping data available to the general public. However, the Federal government is not allowed to provide software that competes with commercial vendors. Therefore, while LandView does perform basic map data retrieval and drawing functions, it is less sophisticated than other mapping or GIS (geographic information system) programs that use TIGER files. Figure 5 illustrates the kind of map that can be created for small areas, in this case, for part of Yavapai County, Arizona.

**Public versus 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. These agencies make data available to the public on a cost recovery basis or free of charge, as a public service.

In contrast, private data organizations offer repackaged public data or data they collect themselves, always for a fee. There are both for-profit and non-profit 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 projected population estimates by age, sex, income, education, and other characteristics for all zip codes, minor civil divisions, and counties in the United States.

As a rule, such firms 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. A good place to start hunting for a suitable private data vendor is The Insider’s Guide to Demographic Know-How by Diane Crispell, available from American Demographics Press for $49.95. American Demographics also publishes an annually updated special report called “Directory of Demographic Products and Services,” which sells for $10. Call (800) 828-1133 for more information.
Overview of Sources

The core of our knowledge about rural issues comes from the Census of Population and Housing conducted by the Federal government every ten years. We supplement these decennial census data with other statistics from the Bureau of the Census and with information from a variety of other Federal, state, and local agencies (Figure 6).

In the sections below, we describe the most important sources of data that researchers can use to analyze rural issues. The chapter closes with a discussion of state and regional sources of rural information.

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 on such important topics as educational attainment, poverty, and occupation. It is important to understand that while local organizations, businesses, and government agencies often conduct surveys or estimate such information from secondary sources, their data cannot be compared to other areas in the country because they do not use uniform definitions and methods.

The U.S. Constitution called for the Federal government to count the population every ten years beginning in 1790. The primary reason for conducting this decennial 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 (32).

Since 1940, the decennial census has also included the Census of Housing,
Figure 6  Major sources of data on nonmetro and rural areas.

Census of Population and Housing
(Bureau of the Census, every ten years)

Agriculture, Economic, and Government Censuses
(Bureau of the Census, every five years)

<table>
<thead>
<tr>
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<th></th>
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<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>USA Counties (CD-ROM) (Bureau of the Census, annual)</td>
<td>Administrative and survey data from other Federal agencies, such as: • National Agricultural Statistics Service • Internal Revenue Service • Social Security Administration</td>
<td>Administrative and survey data from state and local agencies, such as: • Employment security • Education • Health and Welfare</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

which counts and collects descriptive information about the nation’s occupied housing units.

In April 1990, the Bureau of the Census conducted the 21st decennial census. As in past censuses, the agency tried to survey every household in the United States. Roughly five out of every six households received 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, received the “long form,” which contained more detailed questions in addition to the same 100-percent items as the short form. Households in rural areas were oversampled, that is, proportionately more received the long form (1-in-2 instead of the average 1-in-6), so that small-area data could be estimated with an acceptable sampling error. Alaska Native villages and American Indian reser

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4The issue of how many households should receive the long form was hotly contested and was finally resolved in summer, 1988. The Office of Management and Budget wanted to reduce the sample rate in the interest of minimizing respondent burden. The Bureau of the Census (and others) argued that the value of the additional data outweighed respondent burden.
vations were also sampled at the higher rate to ensure a sufficient number of observations.

By law, the Census Bureau was required to deliver final population counts to the President by December 31, 1990.

These counts are used in reapportioning representation in the U.S. Congress. By April 1, 1991, the Bureau delivered census figures accurate to the block level for purposes of state congressional redistricting. Other tabulations and publications were 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 contained questions about:

**Population**
- Name
- Household relationship
- Sex
- Age
- Marital status
- Race
- Hispanic origin

**Housing**
- Number of units in structure
- Number of rooms in unit
- Tenure (owned or rented)
- Value of home or monthly rent
- Congregate housing (meals included in rent)
- Vacancy characteristics

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**Tips on Community Research: How to Locate and Use Data**

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

- If no one in your community can help you find the data you need, call the source. Keep calling until you get what you need. Reference books like those discussed later in this chapter are intended to help you find people to call.

- Read the technical documentation that accompanies each of your data sources. This material explains how the data were collected and defines terms used in the document. It may be helpful to review the questionnaire that was used to collect the data. Some agencies will make questionnaires available upon request.

- Be precise in your use of research terms. Make sure you understand the definitions of terms you 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 book, as well as to the documentation that accompanies your data source.
The 1990 long form contained questions about:

<table>
<thead>
<tr>
<th>Population</th>
<th>Housing</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Social characteristics:</strong></td>
<td><strong>Year moved into residence</strong></td>
</tr>
<tr>
<td>Education—enrollment and</td>
<td><strong>Number of bedrooms</strong></td>
</tr>
<tr>
<td>attainment</td>
<td></td>
</tr>
<tr>
<td>Place of birth, citizenship,</td>
<td><strong>Plumbing and kitchen facilities</strong></td>
</tr>
<tr>
<td>and year of entry to United</td>
<td><strong>Telephone</strong></td>
</tr>
<tr>
<td>States</td>
<td></td>
</tr>
<tr>
<td>Ancestry</td>
<td><strong>Autos, light trucks, and vans</strong></td>
</tr>
<tr>
<td>Language spoken at home</td>
<td><strong>Heating fuel, water source, and method</strong></td>
</tr>
<tr>
<td>Migration (residence in 1985)</td>
<td></td>
</tr>
<tr>
<td>Disability</td>
<td><strong>Year structure built</strong></td>
</tr>
<tr>
<td>Fertility</td>
<td><strong>Condominium status</strong></td>
</tr>
<tr>
<td>Veteran status</td>
<td><strong>Farm residence</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Shelter costs, including utilities</strong></td>
</tr>
</tbody>
</table>

**Economic characteristics:**
- Labor force
- Occupation, industry, and class of worker
- Place of work and commuting to work
- Work experience and income in 1989
- Year last worked

Figure 7 illustrates part of a sample page from the 1990 Census of Population and Housing report, *Social and Economic Characteristics*, for Yavapai County, Arizona.

Data from the decennial and other censuses are now available on CD-ROM. Compared to the Census Bureau’s printed reports, its CD-ROM files have more geographic detail but less detail on population characteristics for small areas.

Included in the Bureau’s CD-ROM files is a simple retrieval program called GO that’s easy to use even for people with few computer skills. Typing “GO” from the CD-ROM drive starts the program and gives a list of menu options. The user first selects a geographic area—for example, a specific county—and then chooses either summary characteristics or individual data items, such as number of households or racial characteristics. (In the case of decennial census data, summary social and economic characteristics include population numbers, education, po-
Who uses census data?

Decision makers at all levels of government and in businesses and community-based organizations use summary statistics from the decennial census. Here are some examples:

- Federal administrators use social and economic census data about communities to allocate billions of dollars worth of government programs, including Community Development Block Grants, agricultural research, cooperative extension, and Headstart.
- State transportation officials use census data about commuting patterns to plan for new highways.
- Social service agencies use census data to identify areas with high concentrations of elderly people, single parent households, and other groups that may need special assistance.
- Economic development organizations use census data about education, housing, and community infrastructure to compare conditions in local communities and identify opportunities for development.

The Census Bureau makes a special effort to help the public use their products. Customer Services staff people in the Data User Services Division (DUSD) answer questions and make referrals to specialists. DUSD also sells printed reports and data files from the Bureau's censuses and surveys. Call them at (301) 457-4100.

The symbol "(D)" is the Census Bureau's guarantee of confidentiality.

By law, the Census Bureau must keep individual responses to its questionnaires confidential. No other agency, including the Internal Revenue Service and the Immigration and Naturalization Service, has access to census records. And when the data are released to the public, they are combined in such a way that we cannot recognize any individual family or person. The same guarantee of confidentiality applies to businesses. No data are released that might permit someone to identify the operations of an individual business. The symbol "(D)" in a Census report means that data have been "suppressed," that is, they have not been printed. Hence, information about individual responses is not disclosed.

Business data that are presented by industry group are frequently suppressed for rural areas and nonmetro counties. This is because the number of businesses in each industry group is so low that particular firms would be easy to spot.

[Threshold and complementary threshold are 1,000 persons. Data based on sample and subject to sampling variability; see text. For definitions of terms and meanings of symbols, see text.]

<table>
<thead>
<tr>
<th>County</th>
<th>Yavapai County</th>
<th>Yuma County</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>American Indian</td>
<td>Hispanic Origin</td>
</tr>
<tr>
<td></td>
<td>Eskimo or Aleut</td>
<td>(if any race)</td>
</tr>
<tr>
<td>LABOR FORCE STATUS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Persons 16 years and over</td>
<td>83,980</td>
<td>1,239</td>
</tr>
<tr>
<td>In labor force</td>
<td>41,238</td>
<td>612</td>
</tr>
<tr>
<td>Percent of persons 16 years and over</td>
<td>49.1%</td>
<td>22.9%</td>
</tr>
<tr>
<td>Armed forces</td>
<td>37</td>
<td>2</td>
</tr>
<tr>
<td>Civilian labor force</td>
<td>41,201</td>
<td>610</td>
</tr>
<tr>
<td>Employed</td>
<td>38,702</td>
<td>545</td>
</tr>
<tr>
<td>At work 35 or more hours</td>
<td>27,548</td>
<td>375</td>
</tr>
<tr>
<td>Unemployed</td>
<td>2,499</td>
<td>65</td>
</tr>
<tr>
<td>Percent of civilian labor force</td>
<td>6.1%</td>
<td>12.9%</td>
</tr>
<tr>
<td>Not in labor force</td>
<td>42,742</td>
<td>627</td>
</tr>
<tr>
<td>Institutionalized persons</td>
<td>1,087</td>
<td>77</td>
</tr>
<tr>
<td>Females 16 years and over</td>
<td>43,607</td>
<td>655</td>
</tr>
<tr>
<td>In labor force</td>
<td>18,623</td>
<td>305</td>
</tr>
<tr>
<td>Percent of females 16 years and over</td>
<td>42.7%</td>
<td>16.6%</td>
</tr>
<tr>
<td>Armed forces</td>
<td>9</td>
<td>2</td>
</tr>
<tr>
<td>Civilian labor force</td>
<td>18,614</td>
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</tr>
<tr>
<td>Employed</td>
<td>17,412</td>
<td>283</td>
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<tr>
<td>At work 35 or more hours</td>
<td>10,702</td>
<td>168</td>
</tr>
<tr>
<td>Unemployed</td>
<td>1,200</td>
<td>18</td>
</tr>
<tr>
<td>Percent of civilian labor force</td>
<td>6.4%</td>
<td>8.9%</td>
</tr>
<tr>
<td>Not in labor force</td>
<td>24,984</td>
<td>349</td>
</tr>
<tr>
<td>Institutionalized persons</td>
<td>612</td>
<td>18</td>
</tr>
<tr>
<td>Males 16 to 19 years</td>
<td>2,611</td>
<td>71</td>
</tr>
<tr>
<td>Employed</td>
<td>1,084</td>
<td>30</td>
</tr>
<tr>
<td>Unemployed</td>
<td>255</td>
<td>19</td>
</tr>
<tr>
<td>Not in labor force</td>
<td>1,266</td>
<td>41</td>
</tr>
</tbody>
</table>
How to read data in a Census Bureau report ...

Figure 7 illustrates part of a typical table produced by the Census Bureau. In the Arizona volume of Social and Economic Characteristics, Table 154 covers seven pages and includes data for each of the state's 15 counties. The purpose of Table 154 is to report data on the labor force characteristics of people in different racial groups and those who are of Hispanic origin.

The first line of data, "Persons 16 years and over," includes all people who are at least 16 years of age in each racial and Hispanic origin group. In Yavapai County, for example, there are 83,980 white persons 16 years and over, 1,239 American Indians, Eskimos, or Aleuts, and so on. Note that since racial and Hispanic groups under a certain size are not included in this table, there is no total column. Hence, we cannot find out the total number of persons 16 years of age and older from Table 154. However, by checking the Table Finding Guide at the beginning of the volume, we learn that data on the total labor force is reported in Table 144.

The 12th line in Table 154 covers females who are at least 16 years or older. Researchers who want to know the labor force characteristics of males 16 years and over by race and Hispanic origin need to subtract line 12 (females) from line 1 (all).

Row labels are indented (or reverse indented) to indicate subgroups and percentages. For example, line 1 includes all people 16 years and over, line 2 (reverse indented) includes only people 16 years and over who are in the labor force, and line 3 (indented further) shows the percentage of people 16 years and over who are in the labor force (line 2 divided by line 1). Line 10 includes persons 16 years of age and older who are not in the labor force. Hence, line 2 plus line 10 (not in labor force) equals line 1.

Note that terms used in the table, such as "civilian labor force," are defined in the report appendices. Check the definitions before using the data to describe the characteristics of your community.

Various status, housing, and labor force statistics.) A table with the selected data is then displayed on the screen and can also be printed or downloaded to a diskette. Some libraries are also equipped to use EXTRACT, a more complicated Census Bureau program that allows users to read data for more than one geographic area at a time (for example, the number of families below the poverty level for two or more counties). Some libraries also have more sophisticated, commercial software programs that can be used with CD-ROM files.

"Census, CD-ROM and You! New Horizons for Microcomputer Users of Census Bureau Data" is a booklet that gives an overview of data available on CD-ROM and the software that can be used to read and manipulate the data. Single copies are free. Order from Customer Services at (301) 457-4100.
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 between 50,000 and 60,000 households every month. CPS data are the basis for estimates on employment, unemployment, poverty, income, education, and many other population characteristics.

Because 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 non-South) trends between the decennial censuses. Some reports, for example, “Income, Poverty, and Valuation of Noncash Benefits: 1993,” also make metro/non-metro breaks in the data and therefore give us a bird’s-eye view of conditions within the nonmetro population.

For more up-to-date information about population change and per capita money income in counties and subcounty areas, the Census Bureau 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 researchers to answer questions about how the 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 subcounty areas.

Reports from the 1992 censuses are being released as this book goes to press. Those in the 1992 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 Census Bureau defines an establishment as a “business or industrial unit at a single physical location that produces or distributes goods or performs services” (191). Establishment lists are compiled from a variety of administrative sources and are updated continually.

For its census of agriculture, the Census Bureau tries to survey the operator of every establishment in the United States which had (or potentially had) at least $1,000 of agricultural product sales in the preceding year. The agric
The Standard Industrial Classification, or SIC, system is a standard scheme for grouping establishments by the type of economic activity in which they are primarily engaged. Researchers in and out of government use this system because it is so comprehensive—virtually all establishments can be classified.

The SIC system is hierarchical, which means it goes from very general to very specific. Its broadest level has ten divisions: agriculture, forestry, and fishing; mining; construction; manufacturing; transportation, communications, electric, gas, and sanitary services; wholesale trade; retail trade; finance, insurance, and real estate; services; and public administration.

Each division is subdivided into “2-digit” major groups, “3-digit” industry groups, and “4-digit” industries. For example, “Services” (SIC 70-89) is one of the ten divisions. A subdivision within Services includes:

<table>
<thead>
<tr>
<th>SIC Level</th>
<th>Example</th>
</tr>
</thead>
<tbody>
<tr>
<td>Major industry group 72</td>
<td>Personal services</td>
</tr>
<tr>
<td>Industry group 721</td>
<td>Laundry, cleaning, garments</td>
</tr>
<tr>
<td>Industry 7211</td>
<td>Power laundries, family and commercial</td>
</tr>
</tbody>
</table>

Another major industry group in the Services Division is Social Services, SIC 83. Advocacy groups, community development organizations, and regional planning agencies are grouped in “Social Services, Not Elsewhere Classified,” SIC 8399.

The Census Bureau and other agencies publish data about establishments at the most detailed SIC level possible without disclosing confidential information.

The most recent edition of the *Standard Industrial Classification Manual* was published in 1987. It is available in many public libraries and is for sale by the National Technical Information Service (NTIS).

cultural census yields county-level (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, and other characteristics. The 1992 *Census of Agriculture*, published on a state-by-state basis, was released in 1994.

For its economic censuses, the Census Bureau organizes establishment data by geographic area and type of economic activity or Standard Industrial Classification (SIC), a system which has been defined 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 domestic product (GDP), productivity, and other measures of
Overview of Sources

economic activity. Researchers can use the 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 products and services sold 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 85,000 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 2-, 3-, and 4-digit SIC codes. 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 8 illustrates part of a sample page from CBP for Nicholas County, West Virginia.

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 releases a CD-ROM, Regional Economic Information System (REIS), which contains county-level personal income data from 1969
Table 2. Counties—Employees, Payroll, and Establishments, by Industry: 1992—Con.

<table>
<thead>
<tr>
<th>SIC code</th>
<th>Industry</th>
<th>Number of employees for week including March 12</th>
<th>Payroll ($1,000)</th>
<th>Total number of establishments</th>
<th>Number of establishments by employment-size class</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>First quarter</td>
<td>Annual</td>
<td>1 to 4</td>
<td>5 to 9</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>NICHOLAS</td>
<td>Total</td>
<td>5,877</td>
<td>28,937</td>
<td>124,321</td>
<td>632</td>
</tr>
<tr>
<td></td>
<td>Agricultural services, forestry, and fishing</td>
<td>33</td>
<td>40</td>
<td>481</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>Mining</td>
<td>1,394</td>
<td>14,813</td>
<td>54,329</td>
<td>50</td>
</tr>
<tr>
<td></td>
<td>Coal mining</td>
<td>1,374</td>
<td>14,285</td>
<td>53,339</td>
<td>45</td>
</tr>
<tr>
<td></td>
<td>Bituminous coal and lignite mining</td>
<td>1,060</td>
<td>11,771</td>
<td>45,811</td>
<td>35</td>
</tr>
<tr>
<td></td>
<td>Bituminous coal and lignite surface</td>
<td>440</td>
<td>5,730</td>
<td>21,848</td>
<td>11</td>
</tr>
<tr>
<td></td>
<td>Bituminous coal underground</td>
<td>603</td>
<td>5,969</td>
<td>22,894</td>
<td>19</td>
</tr>
<tr>
<td></td>
<td>Coal mining services</td>
<td>206</td>
<td>1,900</td>
<td>6,271</td>
<td>7</td>
</tr>
<tr>
<td></td>
<td>Construction</td>
<td>200</td>
<td>624</td>
<td>4,722</td>
<td>48</td>
</tr>
<tr>
<td></td>
<td>General contractors and operative builders</td>
<td>102</td>
<td>408</td>
<td>3,416</td>
<td>24</td>
</tr>
<tr>
<td></td>
<td>General building contractors</td>
<td>87</td>
<td>372</td>
<td>3,251</td>
<td>18</td>
</tr>
<tr>
<td></td>
<td>Heavy construction, except building</td>
<td>(B)</td>
<td>(D)</td>
<td>(D)</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Heavy construction, except highway</td>
<td>(B)</td>
<td>(D)</td>
<td>(D)</td>
<td>3</td>
</tr>
</tbody>
</table>

*Excludes most government employees, Railroad employees, and self-employed persons. Size class 1 to 4 includes establishments having payroll but no employees during mid-March pay period. (D) denotes figures withheld to avoid disclosing data for individual companies. For explanation of terms, statement on reliability, and comparability with other data, see introductory text.
to the most current year available (see box on page 56 for more information). These CD-ROM files replace the annual printed report, *Local Area Personal Income*. *LAPI* will continue to be published once every five years, most recently in 1994. It will contain data from 1969 to the most recent reference year, so it will be a good source of historical information. However, it will only include three statistics for each county: population, per capita personal income, and total personal income. Figure 9 illustrates part of a sample page from *LAPI* for Latah County, Idaho.

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. Researchers can use BEA data to find out how total and per capita 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 databases. 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 (typically located in government agencies and universities) distribute data free of charge or at minimal cost within their own state. Researchers can locate BEA User Groups in their state by calling REIS at (202) 606-5360.

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

BEA has a fax-based service that allows customers to access news releases and other information 24 hours a day. Information is available on regional economic trends and includes some county-level data. Dial 1-900-786-2329 from a fax machine’s touch-tone telephone and respond to the recorded instructions. Each call costs $0.65 per minute.

For more information on BEA’s information services, order the free publication “A User’s Guide to BEA Information” from Public Information Office, Order Desk BE-53, BEA, 1441 L St. NW, U.S. Department of Commerce, Washington, DC 20230 or call (202) 606-9900. 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 primarily 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.
### Figure 9  Part of a sample page from *Local Area Personal Income 1969-1992.*

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Latin County</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total personal income (thousands of dollars)</td>
<td>66,102</td>
<td>74,985</td>
<td>82,425</td>
<td>94,012</td>
<td>112,298</td>
<td>137,284</td>
<td>133,260</td>
<td>151,212</td>
<td>156,325</td>
<td>186,194</td>
<td>205,657</td>
<td>231,465</td>
</tr>
<tr>
<td>Total population (thousands)</td>
<td>24.4</td>
<td>25.1</td>
<td>26.3</td>
<td>27.5</td>
<td>27.7</td>
<td>27.4</td>
<td>27.6</td>
<td>27.8</td>
<td>28.1</td>
<td>28.3</td>
<td>28.9</td>
<td></td>
</tr>
<tr>
<td>Per capita personal income (dollars)</td>
<td>2,790</td>
<td>2,988</td>
<td>3,130</td>
<td>3,418</td>
<td>4,078</td>
<td>4,957</td>
<td>4,870</td>
<td>5,483</td>
<td>5,692</td>
<td>6,621</td>
<td>7,278</td>
<td>8,015</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Lemhi County</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total personal income (thousands of dollars)</td>
<td>249,246</td>
<td>246,154</td>
<td>272,143</td>
<td>287,380</td>
<td>303,403</td>
<td>323,784</td>
<td>333,920</td>
<td>356,624</td>
<td>404,281</td>
<td>433,065</td>
<td>451,966</td>
<td>487,546</td>
</tr>
<tr>
<td>Total population (thousands)</td>
<td>29.2</td>
<td>30.0</td>
<td>30.2</td>
<td>30.2</td>
<td>30.0</td>
<td>30.1</td>
<td>30.2</td>
<td>31.2</td>
<td>30.6</td>
<td>31.1</td>
<td>31.8</td>
<td></td>
</tr>
<tr>
<td>Per capita personal income (dollars)</td>
<td>8,491</td>
<td>8,217</td>
<td>9,017</td>
<td>9,545</td>
<td>9,900</td>
<td>10,783</td>
<td>11,943</td>
<td>13,377</td>
<td>14,134</td>
<td>14,527</td>
<td>15,347</td>
<td></td>
</tr>
</tbody>
</table>

**Note:** The table provides data for both Latin County and Lemhi County from 1969 to 1992, including total personal income, total population, and per capita personal income for each year.
The Rural Economy Division (RED) of ERS is the largest Federal agency devoted entirely to research on rural issues. RED economists, sociologists, demographers, political scientists, and geographers analyze national and regional trends affecting rural communities. Their research is intended to inform policy makers and program managers at all levels of the public and private sectors.

Each of RED's four branches focuses on a unique aspect of rural America. For more information, call the branch chief whose phone number is listed below:

- **The Population, Labor, and Income Branch** monitors indicators of rural well-being, including farm household income, rural poverty, and the rural workforce (202) 219-0533.
- **The Rural Industry Branch** studies industrial structure as well as the links between rural economies and larger national and international economies (202) 219-0527.
- **The Farm Business Economics Branch** collects and disseminates current information and future projections on the economic health of the farm sector and is the central data collection program for ERS research (202) 219-0001.
- **The Finance and Development Branch** studies the effects of key services and resources on the economic development of rural communities, and is especially concerned with the effects of Federal policies on rural communities (202) 219-0721.

RED publishes a magazine called *Rural Development Perspectives*, that presents results and implications of new research by ERS and other analysts. A one-year subscription (three issues) costs $14. The agency also publishes *Rural Conditions and Trends*, a periodical about rural and national economic trends. For example, the Spring 1994 issue included articles on national economic growth, rural employment growth, rural household income, and rural poverty and population. An annual subscription (2 issues) costs $13. Both publications can be ordered from ERS/NASS, 341 Victory Drive, Herndon, VA 22070, (800) 999-6779.

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 catalog that lists all current agency research reports and other publications. To be placed on the free mailing list for *Reports*, contact the ERS's Information Division, Room 237, 1301 New York Ave. NW, Washington, DC 20005-4789 or call (800) 999-6779. The Information Division also issues a free diskette that contains a "Finder's Advisory System." The DOS-formatted diskette includes a complete listing of ERS data products, information specialists, and publications. No program-
Where to Find Data Products

Data products issued by the Federal government (including reports, computer-accessible files, microfiche, and maps) are available at various locations in every state. 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 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. To find the depository library closest to you,

Labor Market Information

Another important source of information about rural communities is the Bureau of Labor Statistics (BLS), which is the Federal government's 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, 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.

Two BLS programs yield small-area data—Employment, Wages, and Contributions (ES-202) and Local Area Unemployment Statistics. For more information on BLS, see Major Programs of the Bureau of Labor Statistics (46) or call Information Services at (202) 606-7828. BLS provides a free list of telephone contacts for data users and also makes press releases and time series data available on Internet (see Appendix F). Non-Internet users can access limited information by dialing directly into an electronic bulletin board service for the price of the call at (202) 606-7060.

Where to Find Data Products

Minging knowledge is required to use the system and free updates are sent on request. To order, contact Jim Horsfield at Room 724, 1301 New York Ave. NW, Washington, DC 20005-4788, call (202) 219-0698, or e-mail (JIMH@ERS.BITNET).
call the library listed for your state in Appendix D or Data User Services Division at the Census Bureau, (301) 457-4100. See the beginning of this chapter 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, Guam, 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 SDC's are responsible for disseminating Census products free of charge or at low cost to data users throughout the state. The services offered by individual SDC's vary 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), Superintendent of Documents, P.O. Box 371954, Pittsburgh, PA 15250-7954, (202) 512-1800, and its branches around the country; and (2) the National Technical Information Service (NTIS), 5285 Port Royal Road, Springfield, VA 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 tiles available to the public. More historic data may also be available from the Center for Electronic Records, National Archives and Records Administration, 8601 Adelphi Road, College Park, MD 20740, (301) 713-6630.

The Freedom of Information Act

Not all of the data collected by the Federal government are made available to the public as a matter of course. For example, administrative data collected in the process of running various public programs are not routinely published or issued in any other form. Even so, these data are very often available through the Freedom of Information Act (FOIA). This law gives anyone the right to request and receive documents, files, and other records from any Federal agency, subject to certain restrictions (such as national security).

To make a FOIA request, it is important to know specifically what information you want and which agency has it. The process is relatively simple, and while requests are sometimes denied, they can be appealed. For sample request letters and more information, contact the Freedom of Information Clearinghouse, P.O. Box 19367, Washington, DC 20036, (202) 833-3000, or see "A Citizen's Guide on Using the Freedom of Infor-
Useful Reference Materials and Statistical Compendia

The Census Bureau produces four reference publications to inform data users about its 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 $22 from the Government Printing Office in Washington, DC, 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 at (301) 763-4100, or online through CENDATA.

“Census and You” is a monthly newsletter about new products and issues of interest to data users. For example, the June 1994 issue included articles about the growth of AIDS in Sub-Saharan Africa; the number and characteristics of “latch key” children; recently published Census reports on Federal expenditures by states and communities; and the demographic characteristics of people with professional degrees. A one-year subscription to “Census and You” can be purchased from the Government Printing Office for $21. Parts of this report are also available online through CENDATA.

“Census '90 Basics” is one booklet in the Bureau’s 1990 CPH-1 series of publications on products from the decennial census. It describes the design and content of the 1990 census. It also discusses Census geography and data products, and lists major printed reports by title, content, and geographic areas. “Census '90 Basics” is free from Customer Services at the Census Bureau.

“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 October 1991, describes data available for small areas, including counties, cities, and county subdivisions. Issues in the series 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 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 25,000 or more, and incorporated places and MCDs.
Overs. iew of Sources

with 2,500 or more. The CCDB is issued periodically. The most recent editions were published in 1983, 1988, and 1994.

The 1994 CCDB presents over 200 data items for counties, including:

- Area (1990), population (1992), and percent population change (1980–1992);
- Population characteristics (1990);
- Number and size of households (1990);
- Vital statistics (1988) and health care (1990 and 1991);
- Hospital beds (1991), social welfare programs (1990), and crime (1991);
- Education levels (1990);
- Money income (1989);
- Housing (1990) and building permits (1992);
- Civilian labor force (1991) and employment by industry (1990);
- Personal income (1990) and farm earnings (1990);
- Banking (1992), Federal funds and grants (1992), and local government finances (1986–1987);

Part of a sample page from the county table in the CCDB is shown in Figure 10. Roughly two-thirds of the items listed above are also presented for cities with a population of 25,000 or more, and three items are presented for places with populations 2,500 and above (1990 population, 1989 per capita money income, and 1989 median household income).

The most recent CCDB is available on CD-ROM and diskette, as well as in published format. The printed version is available from the Government Printing Office for $40. Call Census Bureau Customer Services for the latest ordering information at (202) 457-4100.

USA Counties is a statistical abstract supplement issued only on CD-ROM. Updated annually, it provides time-series data for counties from the 1970 to 1990 Censuses of Population and Housing; Economic Census data from 1972, 1977, 1982, and 1987; and over 2,500 data items for each county in the United States. User notes provide information about changes in methodology that affect the results of time-series analysis.

Information U.S.A. is a private company that publishes helpful reference materials for researchers. Lesko's Info Power (formerly Information U.S.A.) is a catalog of information resources in the Federal government. Although
### Table B: Counties — Area and Population

<table>
<thead>
<tr>
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</tbody>
</table>
some of the material in the book is out of date, it is still a valuable guide to agencies and experts. The company also publishes *The Federal Database Finder* (revised edition due out in 1995). Check your local library or contact Information U.S.A., P.O. Box E, Kensington, MD 20895, (301) 924-0556.

Congressional Information Service (CIS), another private firm, publishes many useful indexes 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 (for example, metro/nonmetro), and publication title. Many college and university libraries have the ASI, and it is also available on CD-ROM and online through DIALOG. The *Statistical Reference Index* (SRI) classifies statistics that have been published by state agencies, universities, and private sector organizations. SRI is also available in published format or CD-ROM (but not online). For a free catalog of CIS products, write CIS, Inc., 4520 East-West Highway, Suite 800, Bethesda, MD 20814-3389, or call (800) 638-8380.

**Local and Regional Information**

Finding secondary data is not the only part of researching rural issues. Often, researchers need to learn what analysis has already been conducted on their community and region. A good place to start is at one of the four Regional Rural Development Centers, located in Oregon, Iowa, Mississippi, and Pennsylvania. The centers disseminate and sometimes elaborate on research conducted by land grant universities. Each one has a newsletter that profiles recent work and available resources. For a combined report of the centers’ publications and projects, contact any one of the regional offices listed in Appendix C.

In addition to the four centers, another useful contact for analysis of rural issues is the Rural Information Center (RIC) at the National Agricultural Library (NAL) in Beltsville, Maryland. The RIC provides information and

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**A little research from RIC goes a long way . . .**

In 1990 a mine in New Mexico was about to close. Working with a regional development organization, the mining company asked the Rural Information Center to help it find markets for zeolite, a mineral it could produce in great quantity. RIC staff performed a literature search that yielded new information on the uses of zeolite. As a result, the company identified six new markets, kept twelve existing jobs, hired enough new employees to staff double shifts, and significantly increased plant wages. (Information provided by USDA staff and from 21.)
referral services to local officials, community development professionals, and private citizens. The staff can answer questions 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 NAL collection. You can contact the RIC through your county or state extension office, by telephone at (800) 633-7701, or by mail at NAL, RIC, Room 304, 10301 Baltimore Blvd., Beltsville, MD 20705-2351.

The NAL also operates the Agricultural Library Forum (ALF), an electronic bulletin board that provides access to RIC publications and other rural development information. See Appendix F for access information.

Finally, other good contacts for rural information are the Rural Development Councils that have been established in most of the fifty states. Together with a National Council, these state councils make up the National Rural Development Partnership (NRDP), established to coordinate existing resources and support collective action between public and private organizations. The state councils are intended to bring together Federal, state, tribal, and local governments, and the private sector (profit, nonprofit, and community-based organizations) to identify and remove barriers to rural development. The national and state councils work together to link resources that can be applied in more than one rural area or state.

For more information, write the NRDP at 300 7th Street SW, Suite 714, Washington, DC 20024-4703, or call (202) 690-2394. A list of state councils and information about the program can be accessed on Internet through gopher (RURDEV.USDA.GOV).

Summary

The Census Bureau, Bureau of Economic Analysis, Bureau of Labor Statistics, and Economic Research Service provide researchers with a core of rural information that can be supplemented by the land grant universities, Regional Rural Development Centers, Rural Information Center, and State Rural Development Councils. The next three chapters illustrate how researchers can use data from these and other, more specialized sources to understand local population and community resources, economies, and governments.
During the 1980s, net migration in nonmetro counties was negative—almost one million more people moved away from nonmetro counties than moved into them. Between 1990 and 1992, however, the trend was reversed—almost 400,000 more people moved into nonmetro counties than moved away from them.

These net migration figures are the aggregate numbers on which demographers and other analysts base estimates about overall trends in rural America. The problem with numbers like these is that they hide the great diversity of rural places. Like the very word *rural*, they imply that there is one kind of rural community in America, undifferentiated by size, location, or economic base. Too often, aggregate numbers prevent us from viewing social and economic organization along a set of continuums—from the suburbs of densely populated urban areas to remote, sparsely settled regions, from diversified small cities to single-industry towns; from persistent poverty to newly acquired wealth. The word *rural* has been used to embody all these extremes and many places in between.

As readers of this book probably understand firsthand, local, small area statistics are critical to discovering new opportunities for development. Only by knowing the specific circumstances and characteristics of a particular place can community leaders map a future within the national and international context. More specifically, leaders at the local level need to know the characteristics of community residents, such as the population size and age structure. To strengthen and diversify their local economy, leaders need to understand their community's resources, such as educational and other labor force characteristics, and distribution of income. This chapter explains how researchers can find information like this using data from the Census Bureau and other Federal and state sources.
The General Population

Demography—or the science of population—is concerned with the size, geographic distribution, composition, and change of human populations (18). Demographic change in a particular 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. Community leaders need to understand these changes so they can plan for future development.

The broad question that should be asked is: what is happening to the size and characteristics of the local population and why? Some specific questions 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?

Knowing where people are moving from and to can help a community or a state prepare for the future. For example, if local retirees are migrating to communities in the Sun Belt, community leaders might try to offer better services for the elderly. If, on the other hand, people of working age are leaving to find jobs in urban areas, the best strategy might be to give more support to businesses that expand job opportunities for the local labor force.

Using its master file of all income tax returns, the Internal Revenue Service counts the number of in- and out-migrants to and from all U.S. counties and states for every 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 $6.00/counties from the IRS, Statistics of Income Division, CP-5, P.O. Box 2608, Washington, DC 20012-2608, (202) 622-0410.
In between the decennial censuses, the first place to look for answers to questions like these is a new series called Population Paper Listings (PPL). This series replaces reports in the P-25 series. It consists of computer-generated printouts and electronic media (diskettes) that data users purchase on a per-request basis.

The PPL series is produced by 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. Data are available 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. For a list of PPL printouts and diskettes, contact the Population Division, Statistical Information staff at (301) 457-2422.

Table 1 uses PPL data to show 1990–1992 population levels for the six sample counties. Note that these numbers are estimates and should be interpreted with care (see box on page 43).

How did it happen that three counties gained and three counties lost population between 1990 and 1992? To answer this question, we look at two components of population change—natural change and net migration.

Natural change is the difference between the number of births and the number of deaths. Fertility, population age structure, and life expectancy all affect the rate of natural change. All other things being equal, a younger population will experience a larger (positive) natural change than an older population.

Table 2 shows the 1990–1992 components of population change for the six sample counties, again using PPL data. All the sample counties, except Yavapai, experienced natural increases in population. They did not all gain population, however, because of net migration, the second and most variable

<table>
<thead>
<tr>
<th>Table 1</th>
<th>The Census Bureau works with individual states to make annual population estimates for all U.S. counties.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Attala, MS</td>
<td>18,481</td>
</tr>
<tr>
<td>Coos, NH</td>
<td>44,828</td>
</tr>
<tr>
<td>Kossuth, IA</td>
<td>18,591</td>
</tr>
<tr>
<td>Lake, ID</td>
<td>30,617</td>
</tr>
<tr>
<td>Nicholas, WV</td>
<td>26,775</td>
</tr>
<tr>
<td>Yavapai, AZ</td>
<td>117,714</td>
</tr>
</tbody>
</table>

Source: U.S. Department of Commerce, Bureau of the Census (131)
Table 2  Both natural change and net migration contribute to population change.

<table>
<thead>
<tr>
<th>County</th>
<th>April 1990 (census)</th>
<th>Resident births</th>
<th>Resident deaths</th>
<th>Net natural change</th>
<th>Net migration</th>
<th>Net total change</th>
<th>July 1992 (estimate)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Attala, MS</td>
<td>18,481</td>
<td>672</td>
<td>448</td>
<td>224</td>
<td>-323</td>
<td>-99</td>
<td>18,382</td>
</tr>
<tr>
<td>Coos, NH</td>
<td>34,828</td>
<td>946</td>
<td>849</td>
<td>97</td>
<td>-553</td>
<td>-456</td>
<td>34,372</td>
</tr>
<tr>
<td>Kossuth, IA</td>
<td>18,591</td>
<td>529</td>
<td>457</td>
<td>72</td>
<td>-540</td>
<td>-468</td>
<td>18,123</td>
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<tr>
<td>Latah, ID</td>
<td>30,617</td>
<td>1,003</td>
<td>432</td>
<td>571</td>
<td>580</td>
<td>1,151</td>
<td>31,768</td>
</tr>
<tr>
<td>Nicholas, WV</td>
<td>26,775</td>
<td>738</td>
<td>587</td>
<td>151</td>
<td>66</td>
<td>217</td>
<td>26,992</td>
</tr>
<tr>
<td>Yavapai, AZ</td>
<td>107,714</td>
<td>2,723</td>
<td>2,812</td>
<td>-89</td>
<td>8,456</td>
<td>8,367</td>
<td>116,081</td>
</tr>
</tbody>
</table>

Source: U.S. Department of Commerce, Bureau of the Census (137)

An important caveat: Numbers like those in Tables 1 and 2 are only estimates and should be interpreted carefully. 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 (111):

- 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 total 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 small 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 of people 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.

Attala, Coos, and Kossuth counties experienced net out-migration between 1990 and 1992 (Table 2). In Latah, Nicholas, and Yavapai counties, however,
net migration was positive: the number of people moving in was greater than the number moving out.

Natural change and migration work together to determine net total change. In Attala, Coos, and Kossuth counties, natural increase was not large enough to compensate for net out-migration between 1990 and 1992; therefore population decreased. In Yavapai County, in-migration more than compensated for the natural decrease, resulting in a positive net total change of over 8 percent. Latah and Nicholas counties experienced natural increase and net in-migration, and therefore their total populations increased 4 percent and 1 percent, respectively.

Because age distribution is so important in explaining both population change and the kinds of goods and services needed by local residents, 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 like the one in Figure 11. Here, data from the Arizona State Data Center are used to illustrate the age structure of Yavapai County. As a services-dependent, retirement-destination county, Yavapai has relatively few young people, and a relatively high proportion of older residents.

**Figure 11** State analysts make intercensal estimates of population age structure.
Education

Education is an investment that brings economic returns both to the individual and to society as a whole. Rural communities are paying particular attention to education in the 1990s as they strive to improve the quality of the local labor force, attract new industries, and diversify their economies.

Commonly asked questions about local education 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 may need fewer (or more) schools and teachers?
- What percentage of the community’s school system revenues come from local sources?
- How well do local test scores compare to those of students in other communities?

Attainment data measure years of school completed. For substate regions, they are available only from the decennial census and are provided for persons in the 18–24 year age range and for 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 12 illustrates how these data can be used.

As we can see, the populations of Attala and Latah counties differ dramatically in terms of educational attainment. In Attala, the nonspecialized, persistent-poverty county, 21 percent of adults age 25 and over have completed less than nine years of school. Thirteen percent have finished college. In Latah, the government county whose economy largely depends on a land grant university, only five percent have completed less than nine years of school, and 43 percent have completed college.

To get up-to-date enrollment data for a particular community, the best place to go is the local school system. Researchers who want to compare data from different areas can use the County and City Data Book (CCDB). (Table 3 shows 1990 enrollment...
Figure 12  The decennial census is the only source of educational attainment data for counties and subcounty areas.

Adults Age 25 and Over (1990)

Attala County, Mississippi

Latah County, Idaho

Source: U.S. Department of Commerce, Bureau of the Census (42)

Table 3  The Census Bureau publishes school enrollment data in its County and City Data Book

<table>
<thead>
<tr>
<th>County</th>
<th>Total</th>
<th>Percent Public</th>
<th>High School dropouts</th>
</tr>
</thead>
<tbody>
<tr>
<td>Attala, MS</td>
<td>5,604</td>
<td>91.8</td>
<td>125</td>
</tr>
<tr>
<td>Coos, NH</td>
<td>5,875</td>
<td>95.1</td>
<td>163</td>
</tr>
<tr>
<td>Kossuth, IA</td>
<td>3,626</td>
<td>78.8</td>
<td>34</td>
</tr>
<tr>
<td>Latah, ID</td>
<td>4,640</td>
<td>90.5</td>
<td>55</td>
</tr>
<tr>
<td>Nicholas, WV</td>
<td>5,300</td>
<td>97.3</td>
<td>239</td>
</tr>
<tr>
<td>Yavapai, AZ</td>
<td>15,243</td>
<td>95.3</td>
<td>617</td>
</tr>
</tbody>
</table>

*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. High school dropouts are persons 16 to 19 years old not enrolled in school and not high school graduates.

Source: U.S. Department of Commerce, Bureau of the Census (290)
data from the CCDB for the six sample counties.) 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.

The Office of Educational Research and Improvement (OERI) published a report in 1994 titled “The Condition of Education in Rural Schools.” It summarizes research on a variety of issues related to rural schools, including Federal and state policy, conditions for educators, and student performance. Supporting tables include state, regional, and national data on a variety of indicators—for example, the number of rural schools by enrollment size, percentage of public school students enrolled in rural schools, and availability of courses. The report is available for $10 from the Superintendent of Documents, U.S. Government Printing Office (stock number 065-000-00653-7).

Finance is another important education issue. 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).

More detailed finance data are typically available from state education agencies. Specifically, these agencies 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 for states.)

Finally, researchers may be interested in data on students’ achievement or proficiency in various skills. These data come from standardized tests (the Scholastic Aptitude Test, for example) and are usually collected for individ-

NCES conducts a variety of national surveys (both annual and longitudinal) to measure the health of the nation’s educational system. Some of its data files allow analyses by metro/nonmetro status. The annual report called The Condition of Education, for example, includes selected indicators for schools classified as rural, suburban, and urban. Researchers interested in obtaining data on specific characteristics of schools in rural communities should contact NCES directly. The agency also publishes a variety of reports on school finance and attainment, and some data are available electronically on tape. For a listing, consult the periodic reports, Programs and Plans of the National Center for Education Statistics and “Current and Forthcoming Publications.” Both reports are available free of charge from NCES while supplies last. Call (800) 424 1616.
ual districts by state education agencies. People who want to compare their
district to larger areas should consult the NCES report *Digest of Education
Statistics*. The National Assessment of Educational Progress (NAEP) is
another NCES program that monitors the skills of primary and secondary stu-
dents in a variety of subjects (as well as data about school and teacher char-
acteristics). The NAEP survey yields state-level data and is conducted every
other year. Reports based on NAEP survey data usually carry the title *The
Nation's Report Card* and are available in depository libraries or through
NCES.

**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. Develop-
ment is also related to the industries that employ local residents. (Industrial
structure is discussed in Chapter 4.) Questions that might be asked 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 makeup of the local labor force?

The first place to look for detailed 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 civili-
ian 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.

The labor force participation rate—that is, the percentage of people who
are working or looking for work—is one indicator of potential economic
growth. A low rate sug-
gests that increased job
opportunities could draw
more people into the work
force, while a higher rate
indicates that few addi-
tional people may be will-
ing or able to work. In
Nicholas County, the la
Labor Force

Table 4 The decennial census provides demographic details about the local labor force.

<table>
<thead>
<tr>
<th>Item</th>
<th>Nicholas County</th>
<th>Kossuth County</th>
</tr>
</thead>
<tbody>
<tr>
<td>Persons 16 years and older</td>
<td>20,328</td>
<td>13,932</td>
</tr>
<tr>
<td>Armed Forces</td>
<td>8</td>
<td>7</td>
</tr>
<tr>
<td>Civilian labor force</td>
<td>9,934</td>
<td>8,473</td>
</tr>
<tr>
<td>Percentage of persons 16 years and older</td>
<td>49</td>
<td>61</td>
</tr>
<tr>
<td>Employed</td>
<td>8,575</td>
<td>8,153</td>
</tr>
<tr>
<td>Unemployed</td>
<td>1,359</td>
<td>320</td>
</tr>
<tr>
<td>Percentage of civilian labor force</td>
<td>14</td>
<td>4</td>
</tr>
<tr>
<td>Not in labor force</td>
<td>10,386</td>
<td>5,452</td>
</tr>
<tr>
<td>Males 16 to 19 years</td>
<td>858</td>
<td>412</td>
</tr>
<tr>
<td>Employed</td>
<td>156</td>
<td>152</td>
</tr>
<tr>
<td>Unemployed</td>
<td>91</td>
<td>13</td>
</tr>
<tr>
<td>Percentage of males 16 to 19 years old</td>
<td></td>
<td></td>
</tr>
<tr>
<td>who are in the labor force and unemployed</td>
<td>37</td>
<td>8</td>
</tr>
<tr>
<td>Not in labor force</td>
<td>611</td>
<td>247</td>
</tr>
</tbody>
</table>

"Labor force participation rate.


The decennial census also provides extensive information on characteristics of employment, including detailed occupational groups (types of jobs), detailed 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 13 shows how we can use occupational data from the decennial census to compare jobs held by rural and urban residents in Latah County. In general, rural people are more likely than urban people to have blue collar occupations, like those classified as "production, craft, and repair" and "operators, fabricators, and laborers."

More up-to-date information about labor force status is available at the county level from the Bureau of Labor Statistics (BLS), which estimates the size of the total labor force and the number of employed and unemployed residents on a monthly and annual basis. These statistics are issued several months after the reference period on microfiche in the series Unemployment in States and Local Areas. Table 5 illustrates how these data are presented for Kossuth County.
Figure 13  The decennial census provides detailed information on the types of jobs people have.

Latah County, Idaho (1990)

<table>
<thead>
<tr>
<th></th>
<th>Urban</th>
<th>Rural</th>
</tr>
</thead>
<tbody>
<tr>
<td>Farming, Forestry</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Operators, fabricators, laborers</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Production, craft, repair</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Service</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Technical sales, admin support</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Managerial, professional</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Percentage of persons employed

Source: U.S. Department of Commerce, Bureau of the Census (42)

Table 5  BLS works with the states to make labor force estimates for counties.

<table>
<thead>
<tr>
<th></th>
<th>Kossuth County, Iowa (January June, 1992)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Persons in Labor force</td>
</tr>
<tr>
<td>January</td>
<td>9,124</td>
</tr>
<tr>
<td>February</td>
<td>9,078</td>
</tr>
<tr>
<td>March</td>
<td>9,019</td>
</tr>
<tr>
<td>April</td>
<td>8,928</td>
</tr>
<tr>
<td>May</td>
<td>8,937</td>
</tr>
<tr>
<td>June</td>
<td>9,144</td>
</tr>
</tbody>
</table>

aPercentage of persons in the labor force who are unemployed

Source: U.S. Department of Labor, Bureau of Labor Statistics (42)
BLS publishes up-to-date labor force data in the quarterly report called *Employment and Earnings* and will include rural data starting in 1996. BLS's annual report, *Geographic Profile of Employment and Unemployment*, contains state-level labor force and demographic data that allow researchers to answer questions 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. BLS's *Monthly Labor Review* (MLR) provides recent research results as well as BLS statistical updates. For example, the June 1994 issue included three articles that focused on the effects of the recession; while other articles discussed married mothers' work patterns, growth of jobs in the poultry industry, and current statistics on labor force, productivity, and injury and illness. MLR is available from BLS for $25/year. Check the depository library nearest you for these publications.

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 employment security agencies; they are also available through Internet (see Appendix F) or by calling BLS at (202) 606-6391.

**Income**

Income statistics are widely used measures of economic well being, but which statistic is most useful depends on the particular research question. For example, it might be important to know:

- How much total income does the community receive and what is the average or per capita income?
- How evenly is this income distributed among local residents?
- Where does local income originate? 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, it is important to understand what each income statistic actually measures.
**Personal income**, a figure reported by the Bureau of Economic Analysis, is the broadest measure of income. It is defined as the total income, both earned income (such as wages) and unearned income (such as interest), received by, or on behalf of, all residents of a particular area. Hence, 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 does not measure how individuals or families are faring, in so far as an increase in total income, for example, could result from an increase in population. Thus we use *per capita* personal income (total personal 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 median and mean family income, as well as per capita income. *Median income* is the middle level, that is, the 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)\(^1\).

BEA's personal income is more comprehensive than the 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 percentage of the population (individuals, households, 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 geo-

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\(^1\)Household income is sometimes used instead of family income. A household consists of all people living in a single dwelling, whereas a family consists of two or more related individuals.
graphic locations. These poverty thresholds come from an index developed in 1964 by the Social Security Administration. The index is based on evidence from the USDA’s 1955 Survey of Food Consumption that found 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 on a more satisfactory method.

Each year, OMB revises its poverty thresholds to reflect changes in the Consumer Price Index (CPI). This means that poverty rates can be compared from one time period to the next. When using other income measures, it is always important 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. In addition, 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

In summary, there are several commonly used income statistics, total and per capita personal income, mean and median money income, and the poverty rate. In the following section, we illustrate how these statistics can be used.

**Bureau of the Census**

Based on sample data collected in the decennial census, the Census Bureau estimates four money income measures at the county level: mean income, median income, per capita income, and percentage below poverty. Data are provided for persons and families and, in some cases, for households. At the county level, these statistics are only available every ten years and are not available from any other public source.

As noted above, the Census Bureau estimates of money income are based on people’s responses to the decennial census long-form questionnaire. 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 capital gains or losses.

Table 6 illustrates how we can use Census data to find out the number and
The decennial census provides small-area data on the number and characteristics of poor people.

### Table 6

<table>
<thead>
<tr>
<th>Item</th>
<th>Total</th>
<th>White</th>
<th>Black</th>
<th>Rural</th>
<th>Farm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total number of persons</td>
<td>18,481</td>
<td>11,081</td>
<td>7,329</td>
<td>11,501</td>
<td>376</td>
</tr>
<tr>
<td>Persons with income below poverty</td>
<td>5,512</td>
<td>1,955</td>
<td>3,525</td>
<td>3,532</td>
<td>84</td>
</tr>
<tr>
<td>Poverty rate</td>
<td>30.7</td>
<td>18.9</td>
<td>48.7</td>
<td>31.7</td>
<td>22.9</td>
</tr>
<tr>
<td>Total number of families</td>
<td>5,058</td>
<td>3,247</td>
<td>1,801</td>
<td>3,211</td>
<td>11.7</td>
</tr>
<tr>
<td>Families with income below poverty</td>
<td>1,272</td>
<td>431</td>
<td>841</td>
<td>820</td>
<td>14</td>
</tr>
<tr>
<td>Poverty rate</td>
<td>25.4</td>
<td>13.9</td>
<td>47.7</td>
<td>26.7</td>
<td>12.7</td>
</tr>
</tbody>
</table>

Source: U.S. Department of Commerce, Bureau of the Census (Tables 6, 149, 158, 215, 219, 221, 321)

**Consumer Income (Series P-60 from the Census Bureau)** is the best source of intercensal income estimates for individuals, families, and households in the United States. Based on the March supplement to the Current Population Survey, Consumer Income enables us to 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 nation as a whole, and selected estimates appear for regions, states, and by metro/nonmetro residence.

Researchers interested in poverty, for example, can refer to the P-60 report, *Income, Poverty, and Valuation of Noncash Benefits*. This report combines three previous publications: *Money Income and Poverty Status of Persons in the United States*, *Valuation of Noncash Benefits* and *Poverty in the United States*. Some of the questions that can be answered using this report are:

- How does the poverty rate in nonmetro counties compare to that for inner cities?
- What are the demographic characteristics of people who are most likely to be poor? For example, in which region (South or non-South) do they live, how large are their families, and how old are they?

P-60 reports are issued periodically. Because of funding cuts, fewer data tables will be published in the combined report than in the previous three. More detailed data can be ordered by phone on a cost per request basis from the Poverty and Wealth Branch at (301) 763-8578, or from the Income Branch of the Housing and Household Economic Statistics Division at the Census Bureau at (301) 763-8576. Portions of the reports are also available electronically via Internet (see Appendix F, Census Customer Services at (301) 457-4100 to order individual reports. 
Between decennial census years we often want to know the poverty rate for areas smaller than those covered by Census Bureau publications. Researchers use several techniques for estimating these statistics. Some start with decennial census data on the social and economic 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 individual states. (See (9), (12), and (14) for examples of these techniques.)

All of these analyses should be regarded with great caution. They are estimates based on estimates, since decennial census poverty statistics are derived from a sample rather than the whole population. Hence, they are subject to multiple sources of error. Nevertheless, they are useful as approximations and may be very helpful in guiding program and policy development in the absence of more precise statistics.

Characteristics of people with income below the poverty level. In 1989, 30 percent of all persons in Attala County had income less than the poverty level, compared to 13 percent nationwide. Poor people in Attala County were disproportionately black, and farm residents were less likely to be poor than other rural residents. Note that the data refer to 1989, 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?”

Between past decennial censuses, the Census Bureau has published its irregular P-25 series, Local Population Estimates. P-25 reports included population and per capita income estimates for counties and subcounty areas. Unfortunately, the series has been temporarily discontinued while the Census Bureau revises its estimation methodology. Call the Housing and Household Economic Characteristics Division (Small Area Income and Poverty Statistics staff) at (301) 763-8413 for more information on what is currently available.

The Census Bureau reports its larger area, intercensal income estimates in Consumer Income, Series P-60. These reports are based on the March supplement to the 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 by products of BEA's responsibility to monitor and measure the performance of the national economy.
BEA distributes a CD-ROM called Regional Economic Information System. Updated each year, the CD-ROM contains data on total and per capita 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 reported at the 2-digit SIC level for states and the 1-digit level for counties. (See Chapter 2 for information about the SIC coding system.) Also available on CD-ROM for counties are component estimates of transfer payments, farm income and expenditures, and full- and part-time employment by 1-digit SIC. The CD-ROM is available from BEA user groups in each state and from Federal depository libraries; its cost is $35. To order, call REIS at (202) 606-5360, or write to the Public Information Office, Order Desk, BE-53, Bureau of Economic Analysis, 1441 L St NW, U.S. Department of Commerce, Washington, DC 20230.

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. Researchers can use the estimates to measure and track income received by the local population and as a framework for analyzing the local economy.

Each year and for all counties, BEA tabulates 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 across county lines.

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);

- 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. If you need recent quarterly estimates that have not been released on CD-ROM, contact BEA's Regional Economic Information System (REIS) or a BEA user group.
Income

- Personal investment income (dividends, interest, and rent); and
- Transfer payments (retirement-related, unemployment insurance, public assistance, and miscellaneous).

BEA obtains most 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 (NASS).

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.

**Figure 14** BEA estimates per capita personal income by source.

**Six Sample Counties (1992)**

<table>
<thead>
<tr>
<th>Dollars per capita</th>
<th>Source</th>
<th>Dividends, etc.</th>
<th>Net earnings</th>
</tr>
</thead>
<tbody>
<tr>
<td>20,000 -</td>
<td>Arizona</td>
<td>$18,685</td>
<td></td>
</tr>
<tr>
<td>15,000 -</td>
<td>Carson</td>
<td>$17,359</td>
<td>$15,347</td>
</tr>
<tr>
<td>10,000 -</td>
<td>Kosair</td>
<td>$12,215</td>
<td>$12,901</td>
</tr>
<tr>
<td>5,000</td>
<td>Lahia</td>
<td>$10,050</td>
<td></td>
</tr>
<tr>
<td>0</td>
<td>Yavapai</td>
<td>$5,375</td>
<td></td>
</tr>
</tbody>
</table>

*Source: U.S. Department of Commerce, Bureau of Economic Analysis (BEA)*
Characterizing Local Population and Community Resources

**Figure 15** BEA provides detailed component estimates of government transfer payments.

Yavapai County, Arizona (1992)

- **Retirement and disability** $297,447,000
- **Unemployment benefits** $10,967,000
- **Veteran benefits** $11,389,000
- **Income maintenance** $22,263,000
- **Medical payments** $35,551,000
- **Other** $1,175,000

Source: U.S. Department of Commerce, Bureau of Economic Analysis (199)

The advantage of BEA data is that they are comprehensive, reported in great detail, and readily accessible through BEA user groups. The disadvantage is that they are based on administrative and survey data collected by other agencies, and as such they reflect an assortment of complex adjustments. Call REIS staff at (202) 606-5360 if you need information about how various adjustments are made.

Figure 14 shows how researchers can use BEA personal income data to better understand the relative importance of various income sources. BEA also makes detailed county-level estimates of various types of transfer payments. Community leaders and development practitioners are becoming more aware of the economic stimulus provided by such payments, including retirement income and welfare benefits. Figure 15 shows, for example, that retirement and disability insurance is the largest component of transfer payments in Yavapai County, accounting for over two-thirds of total government transfers. Income maintenance payments (such as public assistance) are a small component, accounting for only about five percent.

**Social Security Administration**

Each year, the Social Security Administration (SSA) publishes information about beneficiaries of the Old Age, Survivors, and Disability Insurance...
Housing Program (OASDI). The data include the number of beneficiaries in each state, county, and zip code, and the aggregate dollar amount of benefits by type. (See the reports OASDI Beneficiaries by State and County and OASDI Beneficiaries by ZIP Code.) Using administrative data, SSA reports these numbers roughly 12 months after the reference year. Researchers can use the information if they want more detail on retirement and disability income than BEA provides. (BEA reports the same data in REIS, but in less detail.) Not all of the SSA publications use the same methods to avoid disclosing data, so read the introduction to each report before using the data or contact SSA staff listed in the front of each report. For ordering information, write to the Chief of Publications Staff, Office of Research and Statistics, Social Security Administration, 4301 Connecticut Ave. NW, Room 209, Washington, DC 20008.

Housing

Some research indicates that substandard housing is more common in rural areas than in urban areas, but measuring the quantity and quality of 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 units that are seasonally occupied by migrant workers. 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.

Evaluating the quality of rural housing is also limited by our ability to objectively measure what constitutes "substandard" housing. The Housing Assistance Council (HAC) notes, for example, that while the number of rural

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The American Housing Survey is a good source of larger-area rural housing data. The AHS is conducted jointly by the Office of Policy Development and Research of the U.S. Department of Housing and Urban Development and the Bureau of the Census. The AHS provides urban/rural and metro/nonmetro cross tabulations by geographic region. Every four years, extra cases are added to the sample in rural areas to produce better estimates of rural housing characteristics. The AHS is particularly useful in that it provides more data on housing quality than the decennial census. AHS reports are published biennially on a regional basis in the Census Bureau Series H 150.
Characterizing Local Population and Community Resources

**Housing Characteristics of Rural Households: 1991** (H-121-93-5) is one of the Current Housing Reports issued jointly by the Census Bureau and the U.S. Department of Housing and Urban Development. It contains data for the United States and regions on the geographic distribution and physical characteristics of rural housing, as well as on the social and economic characteristics of rural householders. Data are presented for rural places that are inside and outside metro areas, adjacent and nonadjacent to metro areas, and farm and nonfarm. The report costs $4 and can be ordered from Customer Services at (301) 457-4100.

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. HAC suggests that mobile 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 (2).

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 questions like the following:

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

In general, the data we use to answer these questions are available from the decennial census. Between censuses, local planning and community action agencies can often provide more up-to-date information. For more details, see United States Department of Commerce, Bureau of the Census, “American Housing Survey: Housing Data Between the Censuses,” 1992 (22).

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” (22). The Census Bureau tabulated a complete count of all housing units from its 1990 census, available down to the block level. All
respondents were asked whether they live in a mobile home or trailer, one-family house, or apartment building.

Researchers can make more current estimates of housing numbers by updating census data with other sources of information. Information on the number of building permits issued is published in the CDB and is usually available from state and local sources. For example, the New Hampshire Office of State Planning (OSP) regularly updates Census figures using residential building permits and annually publishes estimates of the housing numbers in each township (10). Figure 16 shows the OSP data for Coos County.

The agency estimates that the number of housing units in all three categories—single family, multi-family, and mobile homes—increased between 1990 and 1992. On the other hand, the Census Bureau estimates the number of people in Coos County decreased during this period (Table 1). More

**Figure 16** Some states estimate housing numbers by using building permit data.

<table>
<thead>
<tr>
<th>Number of permits</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
</tr>
<tr>
<td>□ Single family</td>
</tr>
<tr>
<td>□ Multi-family</td>
</tr>
<tr>
<td>□ Manufactured and other</td>
</tr>
</tbody>
</table>

Coos County, New Hampshire (1990–1992)

Source: New Hampshire Office of State Planning (10)
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 size and characteristics of local housing units, the next thing researchers may want to measure is the quality of housing in a particular 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. Because lack of plumbing facilities is usually associated with substandard housing, the most widely used and objective measure of quality is the presence of complete plumbing facilities for exclusive use of the household. (Complete plumbing facilities include hot and cold piped water, a flush toilet, and a bathtub or shower.) Other facilities and equipment that may indicate housing quality are complete kitchen facilities, telephone, central heat, and public water hookup. Care should be used in interpreting these indicators; however, as none by itself is 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.

Health

Rural communities face two major health issues: (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 of research documenting the effects of poverty and environmental pollution on health, and because many rural health care providers face growing financial problems. Very few small-area statistics on

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Information for Action: An Advocate's Guide to Using Maternal and Child Health Data, published by the Children's Defense Fund, is an excellent resource for community researchers. This very readable book includes topics on ways to approach health-related research questions, choosing indicators, assessing state and local data sources, and presenting research results. It costs $6.95. In order to purchase, contact the Children's Defense Fund, 2501 Street NW, Washington, DC 20008, or call (202) 628-8787.
The Rural Information Center Health Service (RICHS) is a part of the Rural Information Center (RIC) at the National Agricultural Library (NAL). RICHS was created in 1990 by the NAL and the Office of Rural Health Policy in the Department of Health and Human Services to provide information on rural health. Services include literature searches on rural health issues, help in locating information, and referrals to organizations or individuals who can assist with specialized information. RICHS has a conference on the NAL's Agricultural Library Forum (ALF) bulletin board that includes information on rural health publications, national and state conferences, and agricultural safety and health programs. (See Appendix F for information on accessing ALF) Contact RICHS staff at the Rural Information Center, National Agricultural Library, Room 304, 10301 Baltimore Blvd., Beltsville, MD 20705 2351, or call (800) 633-7701, or (301) 504 5547 in the Washington, DC area, or e-mail through Internet access. Contact RICHS staff at the Rural Information Center, National Agricultural Library, Room 304, 10301 Baltimore Blvd., Beltsville, MD 20705 2351, or call (800) 633-7701, or (301) 504 5547 in the Washington, DC area, or e-mail through Internet access.

Health status are published at the Federal level so the best place to start looking for information on health status is the local or state public health agency.

Information about access to health resources is somewhat easier to obtain. AHA Hospital Statistics reports data compiled from the American Hospital Association's Annual Survey of Hospitals. It provides information for Census divisions and states on the number of hospitals and nursing homes, their size (number of beds), and type of facility (for example, psychiatric or chronic disease). It also includes financial information such as the type of ownership (private, nonprofit, government), number of full time employees, and payroll. Another report, AHA Guide to the Health Care Field, provides more detailed data, but for each hospital that responded to the AHA's Annual Survey of Hospitals. The data are organized by state and city, and each entry lists the county where the hospital is located. Each report includes contacts who can answer specific questions about methodology or content.

Physician Characteristics and Distribution in the U.S. is an annual report published by the American Medical Association. It includes state and county group data on the number of physicians, individual characteristics (including age and gender), and area of specialization (for example, family practice or pediatrics). The report includes a table which identifies counties without an active physician. Check your nearest depository library or health related library for these publications.

Health United States is an annual report published by the National Center for Health Statistics that provides national level data on a variety of health related subjects, including health care resources and expenditures. Some state level data are provided, such as the number of hospital beds per capita and per capita expenditures for mental health services.
Limited county-level data on health status and resources are published in the *County and City Data Book*, as illustrated in Table 7.

**Table 7** The *County and City Data Book* includes limited health status and resource data.

<table>
<thead>
<tr>
<th>Item</th>
<th>Attala County, Mississippi</th>
<th>Kossuth County, Iowa</th>
</tr>
</thead>
<tbody>
<tr>
<td>Population by race (1990)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>White (%)</td>
<td>60.1</td>
<td>90.3</td>
</tr>
<tr>
<td>Black (%)</td>
<td>39.5</td>
<td>0.0</td>
</tr>
<tr>
<td>Other (%)</td>
<td>0.3</td>
<td>0.4</td>
</tr>
<tr>
<td>Number of hospital beds (1991)</td>
<td>76</td>
<td>29</td>
</tr>
<tr>
<td>Active, non-Federal physicians</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Number, 1990</td>
<td>15</td>
<td>6</td>
</tr>
<tr>
<td>Number per 100,000 residents as of April 1, 1990</td>
<td>81</td>
<td>32</td>
</tr>
<tr>
<td>Infant mortality rate</td>
<td>10.9</td>
<td>8.2</td>
</tr>
</tbody>
</table>

*Deaths of infants under one-year old per 1,000 live births.
Source: U.S. Department of Commerce, Bureau of the Census (29)
Overview of Local Economic Structure

Our sample counties reflect the diverse economic makeup of rural America, as illustrated in Figure 17. To evaluate alternative development strategies, citizens and policy makers need to understand their local economic structure, in terms of both the contribution that various industries make, and cyclical and structural changes that affect these industries. Critical questions might include:

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

To answer these questions we shift our focus away from data about people and toward data about the industries that make up a community’s economy. These industries can be analyzed from the standpoint of both jobs and income, as explained in the rest of this chapter.

Employment

Employment data tell us how many jobs each industry provides for the local economy. The main sources of employment data are:
Researchers can use BEA earnings data to analyze the economic structure of individual counties.
Overview of Local Economic Structure

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

We report employment data for Nicholas County 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.

Table 8: Four sources of employment statistics for Nicholas County, West Virginia.

<table>
<thead>
<tr>
<th>Industry</th>
<th>1992</th>
<th>1993</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Agriculture, forestry, and fisheries</td>
<td>104</td>
<td>NA</td>
</tr>
<tr>
<td>Agricultural services, forestry, and fisheries</td>
<td>NA</td>
<td>40</td>
</tr>
<tr>
<td>Mining</td>
<td>1,412</td>
<td>1,394</td>
</tr>
<tr>
<td>Construction</td>
<td>503</td>
<td>200</td>
</tr>
<tr>
<td>Manufacture</td>
<td>1,143</td>
<td>808</td>
</tr>
<tr>
<td>Transportation, communication, and public utilities</td>
<td>884</td>
<td>320</td>
</tr>
<tr>
<td>Wholesale trade</td>
<td>198</td>
<td>233</td>
</tr>
<tr>
<td>Retail trade</td>
<td>1,040</td>
<td>1,908</td>
</tr>
<tr>
<td>Finance, insurance, and real estate</td>
<td>220</td>
<td>399</td>
</tr>
<tr>
<td>Services</td>
<td>2,394</td>
<td>1,038</td>
</tr>
<tr>
<td>Government</td>
<td>410</td>
<td>NA</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>8,578</strong></td>
<td><strong>8,972</strong></td>
</tr>
</tbody>
</table>

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

Sources: U.S. Department of Commerce, Bureau of the Census; Economic Analysis, Business Patterns and Employment Reports.
<table>
<thead>
<tr>
<th>Data source</th>
<th>Basis</th>
<th>Unit of observation</th>
<th>Where the data originates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Decennial census</td>
<td>Place of residence (people)</td>
<td>Census respondent</td>
<td>Sample of the population</td>
</tr>
<tr>
<td>County Business Patterns (Bureau</td>
<td>Place of work (people)</td>
<td>Establishment (single physical location where business is conducted)</td>
<td>Economic census: annual economic surveys and administrative records</td>
</tr>
<tr>
<td>of the Census)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bureau of Labor Statistics and</td>
<td>Place of work (jobs)</td>
<td>Establishment (economic unit which produces goods or services, generally at a single location)</td>
<td>Quarterly reports filled by employers subject to unemployment insurance laws</td>
</tr>
<tr>
<td>SLEAS</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bureau of Economic Analysis</td>
<td>Place of work (jobs)</td>
<td>Same as BLS</td>
<td>Quarterly LEIC reports and administrative records from other agencies and organizations</td>
</tr>
</tbody>
</table>

*When not suppressed, see Chapter 2 for discussion of SIC codes.*

SLEAS: State Employment Security Agencies

ERI C 0 03 0 1 0 0 9 8
<table>
<thead>
<tr>
<th>Industry detail</th>
<th>Geographic detail</th>
<th>Format</th>
<th>Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>All employees and self-employed</td>
<td>4-digit SIC To county subdivisions</td>
<td>Published, in-house, CD ROM</td>
<td>Every 10 years; 2-3 years after reference period</td>
</tr>
<tr>
<td>Includes employment covered by FICA (primarily private, nonfarm wage and salary). Excludes self-employed persons, government employees, farm workers, and domestic service workers. Government-owned hospitals and liquor stores included.</td>
<td>4-digit SIC To counties</td>
<td>Published, CD-ROM</td>
<td>Annual, 2-3 years after reference period</td>
</tr>
<tr>
<td>Includes workers covered by state unemployment compensation laws and by the Unemployment Compensation for Federal Employees (CFE) program. Excludes self-employed persons.</td>
<td>4-digit SIC To counties</td>
<td>Upon request from BLS; upon request and also sometimes published by state employment security agencies</td>
<td>Annual, within 1 year of reference period</td>
</tr>
<tr>
<td>Includes private and public, full time and part time, self employment and wage and salary employment</td>
<td>4-digit SIC To counties</td>
<td>CD-ROM and user groups in each state</td>
<td>Annual, within 18 months of reference period</td>
</tr>
</tbody>
</table>
Where to get employment and earnings data for counties

- Look in the library for Census Bureau reports.
- Call your state employment security agency or BLS in Washington, D.C.
- Contact a BEA user group in your state.

See Appendix D for names and phone numbers.

Find out what's happening in your state—BLS news releases titled "State and Metropolitan Area Employment and Unemployment" and "The Employment Situation" report up-to-date information on employment at the state and national level. Write to the Branch of Inquiries and Correspondence, BLS, Washington, DC 20212-0001 to get on the mailing list.

The decennial census provides the most detailed employment-by-industry data. These data, which are published in Social and Economic Characteristics (Series CP-2), 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 1990 employment data from Series CP-2 for Nicholas County. These data are reported on a place-of-residence basis. This means, for example, that 1,412 people who lived in Nicholas County in 1990 worked in the mining industry, according to the 1990 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 in economic structure. However, the Census Bureau's annual County Business Patterns (CBP) provides more recent (but less detailed) employment-by-industry data for counties. The data are obtained from economic censuses, various annual surveys, and administrative records from other agencies. 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, self-employed persons, farm workers, or domestic service workers. Hospitals and state-owned liquor establishments, however, are included. Because farmers and their employees are not included, CBP is less useful for counties where agriculture is important. Selected CBP data are reported in the County and City Data Book.

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 available by paid request if there is no disclosure problem.

The third column in Table 8 shows CBP employment data for Nicholas County. The data are reported according to place-of-work and represent numbers of workers. This means, for example, that 1,394 people who worked in Nicholas County in 1992 were employed in the mining industry, according to CBP.

In order to administer the state unemployment insurance programs, the Bureau of Labor Statistics also tabulates employment-by-industry data. These data pertain to virtually all private and government workers. The data come from quarterly tax bills and statistical requests sent by the SESAs to private businesses and government agencies.

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 free of charge. The West Virginia Department of Employment Security, for example, publishes county employment figures annually and mails them free of charge.

The fourth column in Table 8 shows SESA data for Nicholas County. They are reported according to place-of-work and represent numbers of jobs covered by unemployment insurance. This means, for example, that there were 989 jobs in the mining industry in 1993, according to the West Virginia SESA.

The fourth source of employment data is the Bureau of Economic Analysis. The data are available on the Regional Economic Information System CD-ROM and from BEA user groups in each state. (Call BEA or your state data center for 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 information is extrapolated from survey data.
when administrative data are not available, and so it may be somewhat less reliable. Another disadvantage is that the county data are only available for broad industry groups, that is, at the 1-digit SIC level.

The fifth column in Table 8 illustrates BEA employment-by-industry data for Nicholas County. The data represent numbers of jobs and are reported according to place-of-work. This means, for example, that there were 1,270 jobs in the mining industry in 1992, according to BEA.

**Earnings**

Earnings data reflect total compensation including wages, salaries, bonuses, and severance pay. Researchers can get up-to-date, county-level wage data from BLS (through the SESAs) and county-level personal income data from BEA.

BLS and its cooperating SESAs collect wage (or payroll) data directly from employers when they gather their employment information, thus the coverage of both public and private sector wage and salary workers is almost complete. Again, BLS only makes these data available at the county level by paid request, and SESAs vary in how accessible they make the data. As with other data, neither the BLS nor SESAs will release any information that would allow an individual employer to be identified.

Table 10 shows data from the West Virginia Bureau of Employment Programs 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 main reason that SESAs collect covered employment and wage data is to administer unemployment insurance programs. However, analysts at all levels of government and the private sector use the data. The Federal government, for example, uses them 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 17, 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 BEA Regional Economic Information System (REIS) CD ROM. 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 upon request from BEA.
Table 10  State Employment Security Agencies publish annual data on earnings by industry.

<table>
<thead>
<tr>
<th>Industry</th>
<th>Number of establishments</th>
<th>Total wages</th>
<th>Average annual wage</th>
<th>Average weekly wage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mining</td>
<td>48</td>
<td>39,376,499</td>
<td>39,814</td>
<td>766</td>
</tr>
<tr>
<td>Coal mining</td>
<td>47</td>
<td>39,278,973</td>
<td>39,877</td>
<td>767</td>
</tr>
<tr>
<td>Manufacturing</td>
<td>41</td>
<td>15,614,401</td>
<td>18,699</td>
<td>360</td>
</tr>
<tr>
<td>Lumber and wood products</td>
<td>25</td>
<td>7,468,211</td>
<td>9,862</td>
<td>382</td>
</tr>
<tr>
<td>Printing and publishing</td>
<td>3</td>
<td>275,558</td>
<td>9,502</td>
<td>183</td>
</tr>
<tr>
<td>Industrial machinery</td>
<td>6</td>
<td>2,086,866</td>
<td>24,843</td>
<td>478</td>
</tr>
<tr>
<td>Services</td>
<td>162</td>
<td>15,488,414</td>
<td>15,154</td>
<td>291</td>
</tr>
<tr>
<td>Hotels and other lodging places</td>
<td>11</td>
<td>1,212,914</td>
<td>12,251</td>
<td>236</td>
</tr>
<tr>
<td>Business services</td>
<td>13</td>
<td>1,388,175</td>
<td>16,725</td>
<td>322</td>
</tr>
<tr>
<td>Health services</td>
<td>29</td>
<td>5,872,213</td>
<td>16,176</td>
<td>311</td>
</tr>
<tr>
<td>Automotive repairs and services</td>
<td>15</td>
<td>498,750</td>
<td>12,468</td>
<td>240</td>
</tr>
<tr>
<td>Miscellaneous repair services</td>
<td>11</td>
<td>693,974</td>
<td>18,756</td>
<td>361</td>
</tr>
<tr>
<td>Legal services</td>
<td>12</td>
<td>799,927</td>
<td>15,665</td>
<td>301</td>
</tr>
<tr>
<td>Social services</td>
<td>4</td>
<td>1,131,636</td>
<td>11,340</td>
<td>220</td>
</tr>
<tr>
<td>Membership organizations</td>
<td>11</td>
<td>124,551</td>
<td>3,277</td>
<td>63</td>
</tr>
<tr>
<td>Engineering and management</td>
<td>25</td>
<td>3,124,308</td>
<td>22,477</td>
<td>432</td>
</tr>
</tbody>
</table>

'Only selected industries shown here.
Source: West Virginia Bureau of Employment Programs (19).

Industry-Specific Data

Once researchers have an overview of local economic structure, they may want more information about the individual industries that are important to a community’s well being. Questions that might be asked include:

- What is the structure of our most important industries? Do many relatively small firms compete with each other, or do only a few large firms dominate these industries?
- What is the value of production from these industries?

For background on the performance and structure of industries that are important to rural communities, see (17).
• Are these industries becoming more productive; that is, are they producing the same or more output with fewer inputs?

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, for places with 2,500 or more inhabitants. The agricultural and economic censuses are mandated by law. Firms are required to respond, but are protected by the confidentiality requirement that prevents publication of data that 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. Researchers can supplement small area data from these sources with information from state and national level industry reports, and with data from other government agencies.

What is the national outlook for industries that are important to your community? For information about nonfarm industries, see U.S. Industrial Outlook, an annual report from the Department of Commerce. It can be ordered from the Government Printing Office for $37 (stock number 003 009 00635 00) or found in depository libraries. For information about agriculture, see the monthly report from ERS NASS, Agricultural Outlook. A one-year subscription costs $42. Both publications provide detailed information about specific industries. Authors of individual articles are excellent contacts for more information.

The Economic Census' Survey of Minority Owned Business Enterprises and Survey of Women-Owned Businesses provide data for counties that have at least 100 businesses owned by women, blacks, Hispanics, or Asian Americans, American Indians, and other minorities. The reports are most useful for counties with a significant population of an ethnic or racial group. For example, Hispanic business owners in Yavapai County, Arizona, data items include total number of firms, sex of owner, and annual payroll. The reports are published in series volumes as follows: women WB 1, black MB 1, Hispanic MB 2, Asian American MB 3, and American Indian MB 4. Reports from the 1992 survey will be released in spring 1995. After publication, reports are released data will also be available on CD. DATA. There is a search library of all Economic Statistics at the Census Bureau's data online service.
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. Farming-dependent counties, of which there are 556, are concentrated in the Great Plains, with others clustered in the Mississippi Delta and parts of the West. 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 types of livestock raised?
- 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 but every four years between 1969 and 1982. It is the only source of consistent, comparable agriculture data at the county, state, and national levels.

Published reports from the agricultural census include data on number and size of farms; crop production; livestock, poultry, and their products; tenure, age, and principal occupation of operator; type of organization; value of products sold; production expenses; and many other characteristics.

Results of the 1992 Census of Agriculture are published in Volume 1, Geographic Area Series (AC92-A-1 through AC92-A-51). The reports provide data at the national, state, and county (or equivalent) levels. Results are also available on computer tape, CD-ROM, and online on CENS DATA and Internet (see Appendix E). For more information, write the Bureau of the Census, Agriculture and Financial Statistics Division, Washington, DC 20233-8300 or call (800) 523-3215. For additional information about electronic data products, call Customer Services at (301) 457-4100.

For the last census, which was done in 1992, the Census Bureau mailed short “screening” questionnaires to a list of four 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 1991. Those that qualified received a complete census questionnaire.

County level agricultural census data are available in state by state reports.
about two or three years after the reference period. State reports from the 1992 Census were released in 1994.

More up-to-date information about agriculture is available from the National Agricultural Statistics Service (NASS) in USDA. Each year, NASS's 45 field offices conduct sample surveys by mail, telephone, personal interviews, and in-the-field observation to collect information on crop and livestock production, chemical use, marketing, expenses, prices, and income. These data are released by the state offices in annual (and some quarterly) reports. Some data are reported for counties, others for multi-county crop reporting districts, and still others for states. 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 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, Room 4143, 14th & Independence Ave. SW, Washington, DC 20250, or call (202) 720-3638.

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. Most ERS analysis and research is done at the national and regional level. One exception is the November or December issue of Economic Indicators of the Farm Sector. It includes income and balance sheet accounts for each state based on the NASS Farm Costs and Returns Survey. 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 the current market value of assets, debts, and net worth.

Table 11 State field offices of the National Agricultural Statistics Service publish annual production and marketing data.

<table>
<thead>
<tr>
<th>Crop</th>
<th>Harvested for</th>
<th>Yield per acre</th>
<th>Production of 1,000 bushel</th>
<th>Price received per bushel</th>
</tr>
</thead>
<tbody>
<tr>
<td>Corn</td>
<td>508,000</td>
<td>188.1</td>
<td>459,096</td>
<td>1.07</td>
</tr>
<tr>
<td>Soybeans</td>
<td>211,000</td>
<td>47.2</td>
<td>9,992</td>
<td>8.84</td>
</tr>
<tr>
<td>Oats</td>
<td>1,900</td>
<td>48.4</td>
<td>90</td>
<td>1.26</td>
</tr>
</tbody>
</table>

Source: Iowa Agricultural Statistics Service.
ERS provides updated information on agriculture 24 hours a day. To access AutoFAX, call (202) 219-1107 from the touch-tone phone on a fax machine and wait for recorded instructions. The system will ask you for a document number and then send the document to your fax machine (up to three per call). Ask for document 0411 to get a list of directories available on the system, and ask for document 4001 for a directory of farm income documents. Each document is 3-6 pages in length. Among the available directories are guides to ERS information and data, specialty agriculture, national, and state farm income accounts, farm sector economics, and rural affairs.

ERS data are also accessible through Internet (see Appendix E).

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. For a free copy of the "Agricultural Statistics Board Catalog," write to ASB Publications, Room 5829, South Building, USDA, Washington, DC 20250, or call (202) 720-4020.

Forestry

The forestry industry includes timber production and harvest, forestry services (such as pest control and reforestation), and the manufacture of wood products.10 Rural communities that depend on the forestry industry are scattered throughout the Pacific Northwest, 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 ask include:

- How many local jobs and how much local income depend on forestry?
- Who owns the region's timber lands?
- How are regional timber resources being managed and used, and whom are they being sold to?

10 The SIC system used by all Federal agencies includes logging and wood products (such as furniture, pulp, and paper) in the manufacturing industry. Some analysts, like Weber, Castle, and Shriver (88), include these related activities in the forestry industry. The latter convention is followed here.
• 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 an individual community, 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:

• 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.

These sources can be supplemented with information from SESAs, County Business Patterns, and the Bureau of Economic Analysis.

One of the first questions that researchers might ask concerns the extent to which a community depends on the forestry industry for income and employment. At least a partial answer can be found 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 multi-county 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 County and three adjacent counties (20).17

Researchers who are interested in data for a single county, or information about forestry dependence in areas where timber is privately held, must use more general secondary sources. With respect to employment data, SESAs collect information on wage and salary workers in the forestry industry including, for example, those who work in forestry services, and in lum...
Industp-Specific Data

ber and wood products manufacturing. The shortcomings of the SESA data are: (1) self-employed loggers and mill owners 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 method to obtain this data is to try to get detailed wage and salary information directly from the SESA and then double-check these data with statistics from County Business Patterns. By combining the two sources (as well as data from private companies, if available), it may be possible 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 proprietor or worker income separately. Researchers may be able to work with analysts in their state Forest and Range Experiment Station to develop independent estimates.

Another 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-owned and private forest land.

Federal timber policy is guided by three Congressional acts that, in theory, provide public-sector forest managers with a framework for long term planning. These managers are responsible for developing and implementing an

The U.S. Forest Service's Rural Community Assistance Program provides technical assistance and limited grant funds to eligible natural resource-based communities. The program helps communities that have been adversely affected by changes in natural resource policy with strategies to develop and diversify their economies. An important element of the program is that it works only on locally generated projects. For more information contact the Forest Service, Washington, D.C. at (202) 205-1389.

The U.S. Forest Service publishes "A Guide to Your National Forests," which provides information about forests and forest policy of the United States. It is available from the Forest Service, Washington, D.C. and from local Forest Service offices. The guide is a handsome color publication that contains detailed information about the National Forest System, including the following: (1) park boundaries and natural features, (2) recreational opportunities, (3) forest service headquarters, (4) national forest visitors centers, and (5) locations of campgrounds and hiking trails. The guide is available from the Forest Service, Washington, D.C. (202) 205-0700.
official Forest Plan which is revised every 10 to 15 years. The Federal government uses the plans to communicate with the public. They set forth overall management principles and also specify targets for activities such as timber harvest, road 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.

**Mining**

The mining industry is a diverse sector that includes the extraction of minerals occurring naturally—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. Mining-dependent counties, of which there are 146, are concentrated in Appalachia and scattered around the West.

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 1992 Census of Mineral Industries combined a mail questionnaire (for about 22,000 midsize and large establishments) with administrative record data from other Federal agencies (for about 11,500 smaller establishments). County data will be published in the Geographic Area Series of regional reports (MIC'92-A), which is scheduled to be released in mid-1995. State-level data are available on CD-ROM, which will be updated quarterly and eventually include the county data as well. Table 12 shows how 1987 census data were published for Nicholas County.

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.
Table 12  Mining data come from the census of mineral industries.

<table>
<thead>
<tr>
<th>Industry group</th>
<th>Total establishments</th>
<th>All employees</th>
<th>Production, development, and exploration workers</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>With 20 employees or more</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total number</td>
<td>more (number)</td>
<td>Number (thousands)</td>
</tr>
<tr>
<td>Total</td>
<td>46</td>
<td>10</td>
<td>17</td>
</tr>
<tr>
<td>Bituminous</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>coal and</td>
<td>36</td>
<td>10</td>
<td>17</td>
</tr>
<tr>
<td>Lignite mining</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1987.

Source: U.S. Department of Commerce, Bureau of the Census (4Q).
Manufacturing

Manufacturing-dependent counties, of which there are 506, are scattered throughout the eastern United States, with a few in the Northwest. 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." Data from this census allow researchers to answer questions about the local structure of the industry, its payroll, cost of materials, value of its shipments exported out of the country, and new capital expenditures. County-level information is presented for the manufacturing industry as a whole, as well as for specific manufacturing industries that have at least 500 employees in a particular county.

Like the census of mineral industries, the enumeration method used for the 1992 census of manufactures combined a mail questionnaire (for about 200,000 midsize 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 (MC92) at beginning in early 1995.

For larger-area statistics on the manufacturing industry, researchers can use state tables in the Geographic Area Series. For detailed statistics on divisions within the industry, researchers can consult the Industry Series (MC87-4). 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 "500 employee" limit, the census of manufactures does not often provide detailed data in nonmetro counties. For Nixonas County, for example, the census provides data about establishments that manufacture "lumber and wood products," but not for the subcategories "logging" 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

The Energy Information Administration (EIA) collects and publishes output, employment, and productivity data on the coal, petroleum, natural gas, and other energy industries. It also collects data on the exploration, extraction, processing, and distribution of these energy products.
**Table 13**  *County Business Patterns* adds some detail to economic censuses like the census of manufactures.

<table>
<thead>
<tr>
<th>Industry</th>
<th>Total number of establishments</th>
<th>Number of employees for week including March 12&lt;sup&gt;a&lt;/sup&gt;</th>
<th>Annual payroll ($1,000)&lt;sup&gt;b&lt;/sup&gt;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lumber and wood products</td>
<td>66</td>
<td>483</td>
<td>8,767</td>
</tr>
<tr>
<td>Logging</td>
<td>52</td>
<td>267</td>
<td>4,309</td>
</tr>
<tr>
<td>Sawmills and planing mills</td>
<td>9</td>
<td>193</td>
<td>4,125</td>
</tr>
<tr>
<td>Furniture and fixtures</td>
<td></td>
<td>(a)</td>
<td>(D)</td>
</tr>
<tr>
<td>Household furniture</td>
<td>2</td>
<td>(a)</td>
<td>(D)</td>
</tr>
<tr>
<td>Paper and allied products</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Paper mills</td>
<td>5</td>
<td>(b)</td>
<td>(D)</td>
</tr>
<tr>
<td>Miscellaneous converted paper products</td>
<td>2</td>
<td>(b)</td>
<td>(D)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(c)</td>
<td>(D)</td>
</tr>
</tbody>
</table>

<sup>a</sup> (a) 100-249 employees; (b) 1,000-3,499 employees; (c) 250-499 employees.  
<sup>b</sup> (D) Withheld to avoid disclosing data for individual establishments.  

"logging" makes up 55 percent of "lumber and wood products employment," but only 49 percent of the payroll.

**Trade**

The trade industry includes firms that sell merchandise either to other firms (wholesale trade) or to consumers (retail trade).

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 numbers of establishments and employees, payroll, and value of sales. In the case of retail trade, these statistics are provided for ten 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 establishments—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 1992 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 will be published in the Geographic Area Series (RC92-A and WC92-A), which is being released as this book goes to press.

Publications based on the census of retail trade report 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 trade data as benchmarks, and then uses other public and private sources to update the census data.

Two other reference books that yield small-area (marketing) data are The Sourcebook of County Demographics, and The Sourcebook of Zip Code Demographics, published by CACI Marketing Systems, a private firm. For counties and zip codes, both books contain data on population, age, race, household income, purchasing trends, and also have business data for the 2-digit SIC level on total number of firms and employees. These data come from the census, Current Population Survey, other agency data, and private marketing surveys. Both books are also available on CD-ROM, but are quite expensive. Check your nearest depository library or call CACI at (800) 292-2224.

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) 457-4100 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 advertising or data processing, for example; health, legal, and educational services; and private households that employ workers in domestic service. Some people confuse the service industry with the service sector. The "sector" is a broader classification which includes all industries producing no tangible product—such as transportation, communications, trade, household services, and government.

Many rural communities see the service industry as a possible vehicle for economic development. Some service-based strategies focus on attracting tourists, while others concentrate on retirees (who may need health care,
Table 14 The census of service industries provides data on industries that are becoming more important to some rural communities.

<table>
<thead>
<tr>
<th>Establishments with payroll in selected kind-of-business groups (1992)</th>
<th>Hotels, motels, and other lodging places</th>
<th>Automotive repair, services, and garages</th>
<th>Amusement and recreation services</th>
<th>Health services</th>
<th>Legal services</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number</td>
<td>Payroll ($1,000)</td>
<td>Number</td>
<td>Payroll ($1,000)</td>
<td>Number</td>
<td>Payroll ($1,000)</td>
</tr>
<tr>
<td>Yavapai County, AZ</td>
<td>60</td>
<td>36,629</td>
<td>92</td>
<td>17,354</td>
<td>50</td>
</tr>
<tr>
<td>Camp Verde</td>
<td>1</td>
<td>(D)</td>
<td>4</td>
<td>637</td>
<td>1</td>
</tr>
<tr>
<td>Chino Valley</td>
<td>--</td>
<td>--</td>
<td>2</td>
<td>(D)</td>
<td>--</td>
</tr>
<tr>
<td>Cottonwood</td>
<td>7</td>
<td>2,881</td>
<td>7</td>
<td>1,275</td>
<td>6</td>
</tr>
<tr>
<td>Prescott</td>
<td>20</td>
<td>(D)</td>
<td>46</td>
<td>9,804</td>
<td>12</td>
</tr>
<tr>
<td>Prescott Valley</td>
<td>2</td>
<td>(D)</td>
<td>6</td>
<td>1,077</td>
<td>2</td>
</tr>
<tr>
<td>Sedona (part)</td>
<td>2</td>
<td>(D)</td>
<td>--</td>
<td>--</td>
<td>1</td>
</tr>
<tr>
<td>Balance of county*</td>
<td>28</td>
<td>17,446</td>
<td>27</td>
<td>(D)</td>
<td>29</td>
</tr>
</tbody>
</table>

*(D) Withheld to avoid disclosing data for individual companies.
*Balance of county includes places with population less than 2,500
Source: U.S. Department of Commerce, Bureau of the Census (421)
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 smallest establishments).

Statistics from the census of service industries include numbers of establishments and employees, payroll, and receipts. The data are provided by specific 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 Yavapai County in 1992. (As in the case of manufacturing statistics, data for divisions within the industry are available in CBP.)

Other data for selected service industries may be 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 (see 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 (CFER), an annual Census Bureau publication that contains small-area data on Federal government expenditures and obligations.

Statistics in the two-volume CFFR are 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). All of the CFFR data are available electronically. Data for a ten-year period are on CD-ROM for county areas.

Figure 18 illustrates CFFR data for Yavapai and Kossuth counties. On a per capita basis, Kossuth receives almost twice as much money from the Federal government (including direct payments as well as loans and guaran-
**Figure 18** The *Consolidated Federal Funds Report* enables researchers to track the geographic distribution of Federal money.

Government Funds Per Capita (1993)

- **Salaries/wages** $402
- **Procurement Contracts** $96
- **Direct payments to individuals** $3,653
- **Grant awards** $292
- **Other** $16
- **Loans/Insurance** $408
- **Direct payments to individuals** $2,511
- **Salaries/wages** $187
- **Grant awards** $556
- **Other** $1,360
- **Loans/Insurance** $4,677

Yavapai County, Arizona

Kossuth County, Iowa

*Source: U.S. Department of Commerce, Bureau of Census (1993)*

...as Yavapai. The difference is due primarily to direct loans and guaranteed loans and insurance, most likely issued to local farmers. Because of its high concentration of retirees, Yavapai County receives a relatively larger share of direct payments to individuals, which include retirement and disability programs.
Analyzing Government in Rural Communities

Many state and local governments around the country are under severe financial stress. One reason is that as Federal aid has decreased relative to personal income, the number and scope of top-down, unfunded mandates have increased. These mandates cover a variety of social services, public transportation, environmental issues, and other responsibilities. They are public sector obligations defined at the national level, even though financial and administrative responsibility for carrying them out resides at the state and local level (5).

Unfortunately, many state and local governments are ill equipped to deal with these new and growing responsibilities. Lower levels of governments have been unwilling, and often unable, to raise the revenue needed to carry out obligations from the national level (15). Since increased Federal assistance is unlikely, many communities face politically difficult choices between raising tax revenues, cutting services, or finding ways to provide services at a lower cost. Making these choices in an informed way 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 researcher might ask are:

• How many and what kind of jurisdictions exist in the locality, what services do they provide, and which ones are authorized to levy taxes and spend money?
• What percentage of local revenue comes from intergovernmental transfers (Federal and state), and from own sources, which is raised by the government unit itself (e.g., property taxes, and sales taxes)?
• How are these revenues used to provide various services?
• How do expenditures and service levels compare with state, regional, or national norms?
• How many people are employed by the local government and how much do they earn?
In addition to reports from the census 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 individual government units. See the most recent *Census Catalog and Guide* for more information. Two brochures, "Current Government Reports" and "1992 Census of Governments," are also useful guides. To order, write to the Chief of Governments Division, Bureau of the Census, Washington, DC 20233.

In general, all census of governments data and associated annual surveys covering government finances and employment are available by the individual government unit. The data are not restricted by confidentiality. While the numbers are not usually released in printed format, they are available from data files contained on magnetic tape as well as other formats. The Census Bureau is now releasing data via Internet, although currently these data are limited to large government units and state summaries of local governments. Contact your state data center or regional Census office to find out if unpublished data are available for your area.

The most useful and easy-to-find statistics for answering these kinds of questions are issued by the Census Bureau. These statistics come from the census of governments, which is conducted in years ending in "2" and "7." The reports in the government series include data on some 85,000 local units of government below the Federal and state levels, including counties, municipalities, townships, school districts, and special districts.

A word of caution before we discuss how researchers can use these statistics: Analyzing local government is very complicated. Often, published data are not comparable across areas because budgeting and accounting practices differ from state to state and from one jurisdiction to another within a state. Therefore, we strongly recommend that if you want to research local government issues, consult first with local planners, people who are responsible for budgeting and accounting within the local jurisdiction, or other knowledgeable people.

**Local Government Structure**

Researchers can answer questions about the structure of local governments with information from the Census Bureau report called *Government Organization*, Series GC(1)-1. The most up-to-date edition of this report is based on data from the 1992 census of governments. It provides information
Table 15  *Government Organization*, a report from the census of governments, is a primer on local governments and public school systems.

<table>
<thead>
<tr>
<th>County</th>
<th>Total</th>
<th>Municipal</th>
<th>School district</th>
<th>Total</th>
<th>With property taxing power</th>
</tr>
</thead>
<tbody>
<tr>
<td>Attala, MS</td>
<td>10</td>
<td>4</td>
<td>2</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Coos, NH</td>
<td>44</td>
<td>1</td>
<td>16</td>
<td>7</td>
<td>3</td>
</tr>
<tr>
<td>Kossuth, IA</td>
<td>21</td>
<td>12</td>
<td>7</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Latah, ID</td>
<td>40</td>
<td>9</td>
<td>5</td>
<td>25</td>
<td>24</td>
</tr>
<tr>
<td>Nicholas, WV</td>
<td>12</td>
<td>2</td>
<td>1</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>Yavapai, AZ</td>
<td>53</td>
<td>8</td>
<td>23</td>
<td>21</td>
<td>21</td>
</tr>
</tbody>
</table>

*Includes county government as a separate unit. Coos County total includes 19 township units.

*Source: U.S. Department of Commerce, Bureau of the Census (1992).*

on the number and selected characteristics of local government units and public school systems as of the beginning of 1992. County-level data items are: (1) number of local governmental units and (2) type of units (municipal, township, school district, and special district).

Data for our sample counties from the 1992 *Government Organization* report are illustrated in Table 15. As the table shows, Coos County has 44 separate government units, compared to only ten in Attala County.

For every state, *Government Organization* describes each type of government unit and school system in terms of its purpose, authorizing legislation, and funding source. For example, we learn from the report that in Idaho, there are 22 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 how local government is structured, a researcher might want to know where public revenues come from and how they are spent. As we mentioned above, budgeting and accounting practices differ from place to place, so it is important to consult with knowledgeable people before tackling this subject.

The Census Bureau reports revenue and expenditure data for counties in the *Compendium of Government Finances*, one of five reports in Series
GC(4). (As this book goes to press, the 1992 edition has not yet been released.) Revenues are classified by type: intergovernmental, general from own sources, and utility and liquor store. Expenditures are classified by function: education services, social service and income maintenance, transportation, public safety, environment and housing, government administration, and utilities.

Figure 19 illustrates how a researcher might use these revenue data. For all six sample counties, revenue from the Federal government paid directly to the county government makes up a very small share of total revenue. Coos County gets the largest share from the Federal government, probably because so much of the county is made up of Forest Service land.

Another report in Series GC(4), *Finances of County Governments GC (4)*-3, contains information on revenue, expenditure, debt, and assets for individual county governments. It also contains national and population size-groups to allow comparison of data. Other reports in the series present

**Figure 19**  The *Compendium of Government Finances* provides data on local government revenue.

<table>
<thead>
<tr>
<th>Six Sample Counties (FY 1986-87)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Attala</td>
</tr>
<tr>
<td>Coos</td>
</tr>
<tr>
<td>Kosuth</td>
</tr>
<tr>
<td>Utah</td>
</tr>
<tr>
<td>Nevada</td>
</tr>
<tr>
<td>Washoe</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Percentage</th>
<th>0</th>
<th>20</th>
<th>40</th>
<th>60</th>
<th>80</th>
<th>100</th>
</tr>
</thead>
<tbody>
<tr>
<td>Federal government</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>State government</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Own sources</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Source: U.S. Department of Commerce, Bureau of the Census (261)*
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.

Own source revenue comes from two sources. The first consists of taxes, such as real property, personal property, income, and sales. The second is made up of charges and miscellaneous revenues, such as interest earnings, fees and permit revenue, and user fees for water, solid waste disposal, and recreation.

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 farm-dependent communities caused property tax collections to decline. This placed severe stress on the ability of local governments to finance education and other public services (19).

One source of data for analyzing local property tax values is the Census Bureau report called Taxable Property Values, Series GC2. 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 1992 census of governments.

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

Just as important as knowing where the money comes from is knowing how it is spent. Again using the Compendium of Government Finances, researchers can learn how much their local government spends on various public services, and how their expenditures compare to those made in other communities. Expenditure categories include education, social services and income maintenance, transportation, public safety, and environment and housing. For example, Figure 20 shows per capita expenditures on police protection by each of the six sample counties. In 1987, Yavapai County spent the most and Nicholas County spent the least.

Other tables in this Census report show each state's revenue and expendi...
Figure 20  The Compendium of Government Finances also provides data on local government expenditures.

Per Capita Expenditures on Police Protection (1987)

<table>
<thead>
<tr>
<th>County</th>
<th>Expenditures</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alata</td>
<td>$35</td>
</tr>
<tr>
<td>Coos</td>
<td>$46</td>
</tr>
<tr>
<td>Kossuth</td>
<td>$37</td>
</tr>
<tr>
<td>Latah</td>
<td>$54</td>
</tr>
<tr>
<td>Nicholas</td>
<td>$26</td>
</tr>
<tr>
<td>Yavapai</td>
<td>$66</td>
</tr>
</tbody>
</table>

Source: U.S. Department of Commerce, Bureau of the Census (26)

ture 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 Bureau data would not reveal.

Public Employment

Public employee payroll is one of the largest components of local government expenditures and is, therefore, often a target for budget cuts. Using Census Bureau 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 United States.

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 21 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 Kossuth County. In October 1987, these teachers earned the highest salary in Yavapai County and the lowest salary in Attala County.

**Figure 21** The Compendium of Public Employment provides data on public service employees and earnings.

<table>
<thead>
<tr>
<th>Number of Teachers and Teacher Earnings for October (1987)</th>
<th>Six Sample Counties</th>
</tr>
</thead>
<tbody>
<tr>
<td>Attala</td>
<td>$1.466</td>
</tr>
<tr>
<td>Coos</td>
<td>$1.871</td>
</tr>
<tr>
<td>Kossuth</td>
<td>$1.863</td>
</tr>
<tr>
<td>Latah</td>
<td>$1.719</td>
</tr>
<tr>
<td>Nicholas</td>
<td>$1.482</td>
</tr>
</tbody>
</table>

Source: U.S. Department of Commerce, Bureau of the Census (2.31)
Again, the Census Bureau issues these data only once every five years, so people who need more up-to-date data should contact local agencies, such as their county or municipal government office.

In between census of governments reports (issued every five years) are several annual Current Government Reports that can help researchers compare data for different governments. *Public Employment* (GE-1) gives national totals on October employment and payrolls of all governments, by function and type, and local government employment and payroll, by function. *City Employment* (GE-2) provides national and population-size group statistics on October employment and payrolls of municipal governments, by function. *County Government Employment* (GE-4) provides national and population-size group statistics on October employment and payrolls of county governments, by function, and gives comparable data for previous years.
Glossary

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

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 five-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.

constant dollars  See real dollars.

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.
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).

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

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, a Census Bureau employee 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 local area.

establishment  A business or industrial unit at a single physical location that produces or distributes goods or performs services, for example, a single store or factory.

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 tax-exempt 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 Census Bureau 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 family income** The average amount of income received by each family, that is, total income divided by the number of families.

**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 county. An MSA must either have (1) a city with a population of at least 50,000 or (2) 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.

**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 in-migrants outnumber out-migrants, the area experiences net in-migration and vice versa.

**nonmetropolitan (nonmetro) county** A county that is not part of a Census Bureau-designated metropolitan statistical area.

**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.

**per capita income** The mean or average income received by individuals; that is, total personal 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.

**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 1993, the poverty level for a family of four was $14,763.

**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** Data collected by a researcher for a specific study using personal or telephone interviews, for example.

**proprietor income** A term used by the Bureau of Economic Analysis to refer to income received by proprietors (self-employed persons), persons in business partnerships, and members of tax-exempt cooperatives.

**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.

**real dollars** *Current dollars* that have been adjusted by the consumer price index to reflect changes in 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.
rural A term used to describe all persons (or areas) that are not designated by the Census Bureau 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 are 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. For example, 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 two or more (usually many) points in time.

total personal income BEA's summary income measure that includes all income received by persons in a given area, including earnings, property income, and transfer payments.

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
## Appendix A

### Selected Data Series from the Bureau of the Census, U.S. Department of Commerce

<table>
<thead>
<tr>
<th>Series and/or Title</th>
<th>Description</th>
<th>Frequency</th>
<th>Format¹</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>POPULATION, CENSUS</strong></td>
<td>Complete count and/or sample of items including demographic characteristics, Hispanic origin, education and labor force status, income by type and poverty status, urban/rural and metro/nonmetro breaks. Please see Census Catalog and Guide 1994, p. 220 for more detail.</td>
<td>Years ending in “0”</td>
<td>Published, fiche, CD-ROM (CPH-2 and CPH-5 only published)</td>
<td>CPH-1, CPH-2 and CP-1 are available for MCDs, CCDs, county subdivisions, places, and AI/ANAs. CPH-5 is available for local governmental units (counties, incorporated places) and AI/ANAs. CP-2 is available for places with population of 2,500 or more. Easy to use and available in local libraries.</td>
</tr>
<tr>
<td>Summary Pop. and Housing Char. (CPH-1)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pop. and Housing Unit Counts (CPH-2)</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Summary Soc., Econ., and Housing Char. (CPH-5)</td>
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<td></td>
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<tr>
<td>General Pop. Char. (CP-1)</td>
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<td></td>
</tr>
<tr>
<td>Soc. and Econ. Char. (CP-2)</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>HOUSING, CENSUS</strong></td>
<td>Complete count of items including number of units, number of rooms and occupants, and value. Urban/rural and metro/nonmetro breaks.</td>
<td>Years ending in “0”</td>
<td>Published, fiche, CD-ROM</td>
<td>Data for county subdivisions places with at least 1,000 population and state parts of AI/ANAs. Frequently available in public libraries.</td>
</tr>
<tr>
<td>General Housing Char. (CH-1)</td>
<td></td>
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</tr>
</tbody>
</table>

¹Please note that the format information may vary depending on the specific data series and the year of publication.
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<thead>
<tr>
<th>Section</th>
<th>Description</th>
<th>Frequency</th>
<th>Format</th>
<th>Geographic Detail</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Population, Current Programs</strong></td>
<td>Marital status, household, and family characteristics (including rural and farm families), mobility, fertility, educational attainment, etc. Some metro/nonmetro classifications.</td>
<td>Annual</td>
<td>Published, fiche, online</td>
<td>Geographic detail below national level varies. Farm detail only to regions.</td>
</tr>
<tr>
<td><strong>Special Studies</strong></td>
<td>Various subjects, including migration, family, women, older people, metro/nonmetro residents.</td>
<td>Irregular</td>
<td>Published, fiche, online</td>
<td>Geographic detail below national level varies.</td>
</tr>
<tr>
<td><strong>Local Population Estimates, P-25 and PPL</strong></td>
<td>Estimates of population and components of change.</td>
<td>Irregular</td>
<td>Published (being phased out), photocopy of printed tables upon request, online, diskette</td>
<td>Estimates are made for counties and, in some cases, subcounty areas. Prepared jointly by state agencies and Census Bureau. Reliability of small place estimates is questionable.</td>
</tr>
<tr>
<td><strong>Consumer Income</strong></td>
<td>Money income, noncash benefits, and poverty status by demographic characteristics. Some metro/nonmetro classifications.</td>
<td>Annual</td>
<td>Published, fiche, online</td>
<td>National and regional, some state</td>
</tr>
</tbody>
</table>
### Appendix A  Continued

<table>
<thead>
<tr>
<th>Series and/or Title</th>
<th>Description</th>
<th>Frequency</th>
<th>Format</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGRICULTURE. CENSUS</td>
<td>Number and characteristics of farms and farm operators, land in farms, value of products sold, etc.</td>
<td>Years ending in “2” and “7”</td>
<td>Published, fiche, online, CD-ROM</td>
<td>Data are available at county level.</td>
</tr>
<tr>
<td>Geographic Area Series (AC-A)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RETAIL TRADE. CENSUS</td>
<td>Number of establishments, employment, payroll, sales, etc., by various retail classifications.</td>
<td>Years ending in “2” and “7”</td>
<td>Published, fiche, online, CD-ROM</td>
<td>Counties and cities with 350+ establishments; counties and cities with 2,500+ population.</td>
</tr>
<tr>
<td>Geographic Area Series (RC-A)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>WHOLESALE TRADE. CENSUS</td>
<td>Number of establishments, employment, payroll, sales, etc.</td>
<td>Years ending in “2” and “7”</td>
<td>Published, fiche, online, CD-ROM</td>
<td>Counties and cities with 200+ establishments; counties and cities with 2,500+ population.</td>
</tr>
<tr>
<td>Geographic Area Series (WC-A)</td>
<td></td>
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</tr>
<tr>
<td>SERVICE INDUSTRIES. CENSUS</td>
<td>Number of establishments, receipts, payroll, and employment by type of business.</td>
<td>Years ending in “2” and “7”</td>
<td>Published, fiche, online, CD-ROM</td>
<td>Counties and cities with 350+ establishments; counties and cities with 2,500+ population.</td>
</tr>
<tr>
<td>Geographic Area Series (SC-A)</td>
<td></td>
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</tr>
<tr>
<td>MINERAL INDUSTRIES, CENSUS</td>
<td>Number of establishments, value added by mining, employment, payroll, hours worked, etc., by SIC.</td>
<td>Years ending in “2” and “7”</td>
<td>Published, fiche, online</td>
<td>Counties</td>
</tr>
<tr>
<td>---------------------------</td>
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</tr>
<tr>
<td>MANUFACTURES, CENSUS</td>
<td>Number of establishments, employment, production workers and hours, payroll for all and production workers, expenses, capital expenditures, value added, and receipts for establishments with payroll.</td>
<td>Years ending in “2” and “7”</td>
<td>Published, CD-ROM</td>
<td>Counties and places with 2,500+ population. Number of establishments to zip code level.</td>
</tr>
<tr>
<td>COUNTY BUSINESS PATTERNS</td>
<td>Number of employees in mid-March pay period, total payrolls, number and employment size, class of establishments by 4-digit SIC, county.</td>
<td>Annual</td>
<td>Published, fiche, online, CD-ROM</td>
<td>Counties. Excludes farm and some other workers, also farmers and other self-employed. Federal employment and payroll only for hospitals and liquor stores. Data suppressed at county level for SIC codes with fewer than 50 employees.</td>
</tr>
<tr>
<td>Series and/or Title</td>
<td>Description</td>
<td>Frequency</td>
<td>Format</td>
<td>Comments</td>
</tr>
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</tr>
<tr>
<td>GOVERNMENTS. CENSUS</td>
<td>Local governments by type, size, and population; school systems by enrollment, etc.</td>
<td>Years ending in &quot;2&quot; and &quot;7&quot;</td>
<td>Published, fiche, online, CD-ROM</td>
<td>Counties, municipalities, townships, school districts, special districts. Description of local government structure in each state.</td>
</tr>
<tr>
<td>Government Organization (GC 11)</td>
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<tr>
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</tr>
<tr>
<td>Taxable Property Values (GC 21)</td>
<td>Assessed valuations, measurable sales, number of properties, etc.</td>
<td>Years ending in &quot;2&quot; and &quot;7&quot;</td>
<td>Published, fiche, online, CD-ROM</td>
<td>Counties and cities of 50,000+ population.</td>
</tr>
<tr>
<td>Public Employment (GC 31)</td>
<td>Public employees, payrolls, October earnings, employment by function, etc</td>
<td>Years ending in &quot;2&quot; and &quot;7&quot;</td>
<td>Published, fiche, online, CD-ROM</td>
<td>Type of government, states, counties, municipalities</td>
</tr>
<tr>
<td>Government Finances (GC 41)</td>
<td>Revenue by source and type, expenditures, debt information, etc.</td>
<td>Years ending in &quot;2&quot; and &quot;7&quot;</td>
<td>Published, fiche, online, CD-ROM</td>
<td>Type of government, U.S., states, counties.</td>
</tr>
<tr>
<td>GOVERNMENTS. SURVEY</td>
<td>Employment and payroll</td>
<td>Annual</td>
<td>Published, fiche, online</td>
<td>By size classification of counties, cities, townships.</td>
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<tr>
<td>Government Employment (GC 5)</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Title</td>
<td>Description</td>
<td>Frequency</td>
<td>Format</td>
<td>Notes</td>
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<td>--------------------------------------------</td>
<td>-----------------------------------------------------------------------------</td>
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<td>-----------------------------------------------------------------------</td>
</tr>
<tr>
<td>Government Finances (GF)</td>
<td>Federal, state, and local finances</td>
<td>Annual</td>
<td>Published, fiche, online</td>
<td>By size classification of counties and selected sub-county areas.</td>
</tr>
<tr>
<td>Quarterly Summary of Federal, State, and Local Tax Revenue (GT)</td>
<td>Revenue by level of government and type of tax, county property tax collections.</td>
<td>Quarterly</td>
<td>Published, fiche, online</td>
<td>States, and by size classification of counties.</td>
</tr>
<tr>
<td>Consolidated Federal Funds Report</td>
<td>Grants, salaries and wages, procurement contracts, direct payments to individuals, other major programs.</td>
<td>Fiscal year</td>
<td>Published, fiche, online</td>
<td>Counties, municipalities, and towns, hips (incorporated places only).</td>
</tr>
<tr>
<td>COUNTY AND CITY DATA BOOK</td>
<td>Statistical abstract supplement, data compiled from censuses, other agencies, and private sources. Population totals, income, education, etc.</td>
<td>Periodic</td>
<td>Published, online, diskette, CD-ROM</td>
<td>Counties, incorporated places with 25,000+ population and places with 2,500+ population.</td>
</tr>
</tbody>
</table>

Continued
<table>
<thead>
<tr>
<th>Series and/or Title</th>
<th>Description</th>
<th>Frequency</th>
<th>Format</th>
<th>Comments</th>
</tr>
</thead>
</table>

*May also be issued on tape.*

*From Current Population Survey.*

Source: U.S. Department of Commerce, Bureau of the Census (22)
# Appendix B  Selected Items Collected and Published in the 1992 Economic Censuses for Counties

![Image](https://via.placeholder.com/150)

## Item

<table>
<thead>
<tr>
<th>Item</th>
<th>Retail Trade</th>
<th>Wholesale Trade</th>
<th>Service Industries</th>
<th>Manufactures</th>
<th>Mineral Industries</th>
</tr>
</thead>
</table>

### Number of Establishments and Firms
- Establishments with payroll
- Establishments without payroll

### Employment
- All employees
- Production workers/hours
- Employment size of establishments

### Payroll
- All employees, entire year
- All employees, first quarter
- Production workers

### Sales, Receipts, or Value of Shipments
- For establishments with payroll
- For establishments without payroll

### Other
- Value added

---

*a Some data are also available for places with 2,500 inhabitants or more and by zip code.

*b Businesses which do not employ any workers.

*c County and place data available only in computerized media.

*d Subnational data available only in computerized media.

Source: U.S. Department of Commerce, Bureau of the Census (39)
Appendix C  Regional Rural Development Centers

North Central Regional Center for Rural Development
216 East Hall
Iowa State University
Ames, IA 50011-1070
Director: Cornelia B. Flora
(515) 294-8321

Southern Rural Development Center
Mississippi State University
P.O. Box 9656
Mississippi State, MS 39762-9656
Director: Doss Broadnax
(601) 325-3207

Northeast Regional Center for Rural Development
7 Armsby Building
Pennsylvania State University
University Park, PA 16802-5600
Director: Daryl Heasley
(814) 863-4656

Western Rural Development Center
Ballard Extension Hall 307
Oregon State University
Corvallis, OR 97331-3607
Director: Russ Youmans
(503) 737-3621
## Appendix D  Depository Libraries, State Data Centers, and BLS Cooperating Agencies

<table>
<thead>
<tr>
<th>State or Territory</th>
<th>Federal Depository Library&lt;sup&gt;a&lt;/sup&gt;</th>
<th>State Data Center</th>
<th>BLS Cooperating State Agency</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Alabama</strong></td>
<td>Auburn University</td>
<td>Alabama State Data Center</td>
<td>Labor Market Information</td>
</tr>
<tr>
<td></td>
<td>Montgomery Library</td>
<td>Center for Business &amp; Economic Research</td>
<td>Dept. of Industrial Relations</td>
</tr>
<tr>
<td></td>
<td>Montgomery</td>
<td>University of Alabama</td>
<td>Montgomery</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Tuscaloosa</td>
<td>(205) 242-8855</td>
</tr>
<tr>
<td><strong>Alaska</strong></td>
<td>Alaska State Library</td>
<td>State Data Center</td>
<td>Research and Analysis</td>
</tr>
<tr>
<td></td>
<td>Juneau</td>
<td>Dept. of Labor, Research &amp; Analysis</td>
<td>Alaska Department of Labor</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Juneau</td>
<td>Juneau</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(907) 465-6026</td>
<td>(907) 465-4500</td>
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<sup>a</sup>Federal Depository Library is the library where the government's published documents are available for free.
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[a] The Federal Depository Library designation indicates that collections of U.S. Government documents are available for interlibrary loan at these locations.

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Tennessee State Planning Office    Nashville
(615) 741-1676

Research & Statistics Division
Dept. of Employment Security    Nashville
(615) 741-2284

Texas  Texas State Library    Austin
Dept. of Rural Sociology
Texas A & M University System
College Station
(409) 845-5115

Economic Research and Analysis
Texas Employment Commission    Austin
(512) 463-2616

Utah  Utah State University    Logan
Merrill Library
Office of Planning and Budget
Salt Lake City
(801) 538-1550

Labor Market Information & Research
Department of Employment Security    Salt Lake City
(801) 536-7400

Vermont  Vermont Dept. of Libraries    Montpelier
Office of Policy Res. & Coordination
Montpelier
(802) 828-3326

Policy and Information
Department of Employment & Training
Montpelier
(802) 229-0311

Virginia  University of Virginia    Charlottesville
Alderman Library
Virginia Employment Commission
Richmond
(804) 786-8308

Economic Information Services
Virginia Employment Commission    Richmond
(804) 786-7496

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aOther libraries in each state are also designated as Federal Depository Libraries. See Census Catalog and Guide for complete listing or call the depository library nearest you.
Appendices

Appendix E  Census Bureau Regional Information Services and Special Topic Information Centers

Census Regional Offices: If you have questions about Census Bureau data, contact the regional office that serves your state (states served by each regional office are noted in parentheses). New York State is split between the Boston and New York offices.

**Atlanta**
101 Marietta St., NW
Atlanta, GA 30303-2700
(404) 730-3833
(AL, FL, GA)

**Boston**
2 Copley Pl., Suite 301
P.O. Box 9108
Boston, MA 02117-9108
(617) 424-0510
(CT, ME, MA, NH, RI, VT)

**Charlotte**
901 Center Park Dr., Suite 106
Charlotte, NC 28217-2935
(704) 344-6144
(DC, KY, NC, SC, TN, VA)

**Chicago**
2255 Enterprise Dr., Suite 5501
West Chester, IL 60154-5809
(708) 562-1740
(IL., IN, WI)

**Dallas**
6303 Harry Hines Blvd., Room 210
Dallas, TX 75235-5269
(214) 767-7105
(LA, MS, TX)

**Denver**
6900 West Jefferson Ave., Suite 100
Lakewood, CO 80235
(303) 969-7750
(AZ, CO, NE, NM, ND, SD, UT, WY)

**Detroit**
1395 Brewery Park Blvd.
P.O. Box 33405
Detroit, MI 48232-5405
(313) 259-1875
(MI, OH, WV)

**Kansas City**
Gateway Tower II, Suite 600
400 State Ave.
Kansas City, KS 66101-2410
(913) 551-6711
(AR, IA, KS, MN, MO, OK)

**Los Angeles**
15350 Sherman Way, Suite 300
Van Nuys, CA 91406-4224
(818) 904-6339
(CA)

**New York**
Jacob K. Javits Federal Building,
Room 37-130
26 Federal Plaza
New York, NY 10278-0044
(212) 264-4730
(NY, NY City, Puerto Rico)
Special Data and Information Centers: The following organizations are associated with the National Census Information Center Program (NCIC).

Asian/Pacific Islander Data Consortium
Asian American Health Forum, Inc.
116 New Montgomery, Suite 531
San Francisco, CA 94105
(415) 541-0866

Indian Net Information Center
Department of Sociology
Henderson State University
1100 Henderson St.
Arkadelphia, AR 71923
(501) 246-5511, Ext. 3292

National Council of La Raza
810 First St., NE, Suite 300
Washington, DC 20002-4205
(202) 289-1380

National Urban League
1111 Fourteenth St., NW, 6th Floor
Washington, DC 20005
(202) 898-1604

Southwest Voter Research Institute
403 East Commerce
San Antonio, TX 78205
(210) 222-8014
Appendix F  Electronic Data Access

Many of the data sources discussed in this book are available electronically. Some can be accessed on electronic bulletin boards, usually for the cost of a phone call, and others require a commercial service user account. The following is a list of electronic access points for agencies that provide rural and nonmetro county data. For more details or further assistance, contact the sources below or your computer service provider.

The Federal Bulletin Board

The Federal BBS has numerous features, including online ordering capability for some information products; retrieval of product announcements, bibliographies, and other free bulletins; and thousands of files covering many government agencies. It is accessible via modem by dialing (202) 512-1387, or via Telnet through Internet to Federal.bbs.gpo.gov 3001 (Port 3001). For more information, contact the GPO Office of Electronic Information Dissemination Services at (202) 512-1530.

Bureau of the Census

The Census Bureau Internet site and CENDATA can be accessed with three Internet applications: Gopher, World Wide Web, and anonymous File Transfer Protocol (FTP). For access:

1. Gopher client: On your local network, type gopher gopher.census.gov


3. FTP: On your local network type ftp ftp.census.gov

Data users who do not have Internet access but do subscribe to CompuServe or DIALOG can also access the Census Bureau’s CENDATA system. With CompuServe, type GO CENDATA; with DIALOG, type BEGIN CENDATA. See the Census Catalog and Guide 1994 (pp. 5-7) for a list of menu options, or call: CompuServe at (800) 848-8199 or DIALOG Information Services, Inc. at (800) 334-2564.

E-mail comments or questions to gatekeeper@census.gov. Contact Jackson Morton at the Census Bureau’s Public Information Office (jmorton@census.gov) or call (301) 457-2816 to get detailed instructions for accessing Internet and for receiving information from the Census Bureau’s electronic mailing list.
Economic Research Service (ERS)
ERS data are available through the Albert R. Mann Library at Cornell University. For access:

(1) Gopher client: On your local network, type `gopher usda.mannlib.cornell.edu 70`

(2) Telnet: On your local network, type `telnet usda.mannlib.cornell.edu`; login as `usda`

(3) FTP: On your local network, type `ftp usda.mannlib.cornell.edu`; login as `anonymous` with your ID name or e-mail address as the password, then `cd usda`

Data users without Internet can access the ERS/NASS Bulletin Board. Dial (800) 821-6229 (communications settings N,8,1,F). For more detailed information about Internet access, contact Jim Horsfield (Room 724, 1301 New York Ave. NW, Washington, DC 20005-4788; (202) 219-0698; jimh@ers.bietnet)

National Agricultural Library ALF
To access the ALF electronic bulletin board directly, dial (301) 504-5496 or (301) 504-5497 (communications software settings N,8,1,F). To access ALF from Internet, follow these steps: `telnet fedworld.gov` (or IP Address 192.239.92.201); register on Fedworld; select Gateway: select Gov't sys/database: select ALF. The RIC can also be reached via the Internet (`ric @nalusda.gov`).

Bureau of Labor Statistics
For access via FTP, type `stats.bls.gov`; register as `anonymous`.
For help, e-mail questions to `LABSTAT.Helpdesk@BLS.gov` or fax to (202) 606-7069. Non-Internet users can access BLS information through a bulletin board service for the price of the call by dialing (202) 606-7060.
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Index

Administrative data, 8
Age distribution, 44
Agricultural Library Forum (ALF), 39
Agricultural Outlook, 74
"Agricultural Statistics Board Catalog," 77
Agriculture data, 75-77
  agriculture censuses, 20, 26, 27, 74, 75
AHA Guide to the Health Care Field, 63
AHA Hospital Statistics, 63
American Demographics Press, 18
American Hospital Association,
  Annual Survey of Hospitals, 63
American Housing Survey (AHS), 59, 62
"American Housing Survey: Housing Data Between the Censuses," 60
American Medical Association, 63
American Statistics Index (ASI), 38
Annual Report and Directory of Mines, 80
Annual Survey of Buying Power, 84
Arizona State Data Center, 44
Attala County, Mississippi, 6, 37, 42-44, 46, 54-55, 57, 64, 66, 90, 91, 93, 94

Beale coding system, 3
Block groups (BGs), 14-15
Block numbering areas (BNAs), 13, 14
Blocks, 13-14
Building permits, information on, 61
Bulletin board services, electronic, 9-10
Bureau of the Census, U.S., see Census Bureau, U.S.
Bureau of Economic Analysis (BEA), 5, 28, 30, 52, 66-70, 71-72, 78
  contacting, 30
Local Area Personal Income (LAPI), 30, 31
Regional Economic Information System (REIS), 28-30, 56, 58, 59, 71, 72
Survey of Current Business, 30
User Groups, 30, 58, 71
Bureau of Labor Statistics (BLS), 10, 26, 33, 49-51, 67-69, 71
  cooperating state agencies, listing of, 113-24
electronic access to, 128
Employment and Earnings, 50
"Employment Situation, The," 70
Geographic Profile of Employment and Unemployment, 51
Information Services, 33
Monthly Labor Review (MLR), 50
"State and Metropolitan Area Employment and Unemployment," 70
Unemployment in States and Local Areas, 49-50

CACI Marketing Systems, 84
CD-ROMs, data available on, 9
CENDATA, 9, 74, 75, 127
Census, defined, 10
"Census, CD-ROM and You! New Horizons for Microcomputer Users of Census Bureau Data," 25
"Census and You," 35
Census Bureau, U.S., 10, 16, 34, 35
agriculture census, 20, 26–27, 74, 75
Agriculture and Financial Services Division, 75
“American Housing Survey: Housing Data Between the Censuses,” 60
CENDATA, 9, 74, 75, 127
Census Catalog and Guide, 35, 84, 89
“Census '90 Basics,” 35
Census of Population and Housing, decennial, see Census of Population and Housing, decennial
“Census and You,” 35
City Employment, 95
Compendium of Government Finances, 47, 90–91, 92–93
Compendium of Public Employment, 94
confidentiality of questionnaire responses, 23
Consolidated Federal Funds Report (CFFR), 86–87
Consumer Income, 54, 55
County Business Patterns (CBP), 28, 29, 67–69, 70–71, 78, 79, 82–83
County Government Employment, 95
“Current Government Reports,” 89
Current Population Survey (CPS), 10, 11, 26, 55, 84
Customer Service Division, 23, 35, 54
Data User Services Division (DUSD), 23, 34, 80, 84
decennial census, see Census of Population and Housing, decennial
economic census, 5, 20, 26, 27, 28, 111
Economic Census, Survey of Minority-Owned Business Enterprises, The, 28, 74
“Factfinder for the Nation,” 35
Finances of County Governments, 91–92
geography, 11–16
block groups (BGs), 14–15
block numbering areas (BNAs), 13, 14
blocks, 13–14
census county divisions (CCDs), 12
census designated places (CDPs), 12
consolidated cities, 12
counties, 11
government census, 20, 26, 28, 47, 89
Government Organization, 89–90
housing data, 59, 60, 61
how to read data in reports of, 25
Income, Poverty, and Valuation of Noncash Benefits, 54
Internet site, 127
Local Population Estimates, 55
Manufacturers, Annual Survey of, 28, 82
Manufacturing and Construction Division, 80
mineral industries, census of, 80–81
Minority-Owned Business Enterprises, Survey of, 28, 74
Money Income and Poverty Status of Persons in the United States, 54
“Monthly Product Announcement,” 35
“1992 Census of Governments,” 89
1992 Economic Censuses for Counties, selected items collected and published in, 111
Poverty in the United States, 54
Poverty and Wealth Branch, 54

Public Employment
(Series GC[3]), 94
(Series GE-1), 95
regional information services and
special topic information centers, 125–26
rural area defined by, 2
selected data series from, 104–10
service industry census, 85, 86
Services Division, 80
Social and Economic Characteristics, 22, 24, 25, 70
Survey of Women-Owned Businesses, 74
symbol “(D),” meaning of, 23
Taxable Property Values, 92
urban area defined by, 2
users of census data, 23
Valuation of Noncash Benefits, 54
Census Catalog and Guide, 35, 84, 89
Census county divisions (CCDs), 12
Census depository libraries, see Federal depository libraries
Census designated places (CDPs), 12
“Census ’90 Basics,” 35
Census of Population and Housing,
decennial, 5, 10, 14, 19–25, 48, 49, 62, 67–70
CD-ROM files, 22
history of, 19–21
long form, 20, 22
short form, 20, 21
software programs for accessing, 22–25
Center for Electronic Records,
National Archives and Records Administration, 34
Children’s Defense Fund, 62
City Employment, 95
Compendium of Government Finances, 47, 90–91, 92, 93

Compendium of Public Employment, 94
Compuserve, 9
“Condition of Education in Rural Schools, The,” 47
Congressional Information Service (CIS), 38
Consolidated cities, 12
Consolidated Federal Funds Report (CFFR), 86–87
Constant dollars, 53
Consumer Income, 54, 55
Consumer Price Index (CPI), 53
Coos County, New Hampshire, 6,
42–44, 46, 56, 57, 61, 66, 78,
82–83, 90, 91, 93, 94
Counties, 11
County and City Data Book, 5, 35–36,
37, 45–47, 50, 61, 63–64, 70
County Business Patterns (CBP), 28,
29, 67–69, 70–71, 78, 79, 82–83
County Government Employment, 95
County Typology system, see Economic Research Service (ERS),
County Typology system
Crispell, Diane, 18
Current dollars, 53
Current Housing Reports, 60
Current Population Survey (CPS), 10,
11, 26, 55, 84

Data, 8–18
administrative, 8
defined, 8
electronic, 9
fax, available by, 10
formats, available, 8–10
hard copy, 8–9
mapping, 16–18
online, 9–10
population versus sample, 10–11
primary, 8
private, 6, 18
public, 18
sample versus population, 10–11
Data (continued)
secondary, 8
survey, collected by, 8
Decennial Census of Population and 
Housing, see Census of Popula-
tion and Housing, decennial
Demographic change, 41–44
Department of Agriculture, U.S. 
(USDA):
Agricultural Statistics Board, 77
"Agricultural Statistics Board Cata-
log," 77
Economic Research Service, see 
Economic Research Service 
(ERS)
Forest Service, 79, 80
"Guide to Your National 
Forests," 79
Land Areas of the National For-
est System, 79
Rural Community Assistance 
Program, 79
National Agricultural Statistics Ser-
vice (NASS), 57, 74, 76
State Statistical Offices, 77
Survey of Food Consumption, 
1955, 53
Department of Commerce, U.S., 5
Bureau of Economic Analysis 
(BEA), see Bureau of Eco-
nomic Analysis (BEA)
Census Bureau, see Census Bureau, 
U.S.
U.S. Industrial Outlook, 74
Department of Housing and Urban 
Development, U.S., 60
Office of Policy Development and 
Research, 59
Depository libraries, see Federal 
depository libraries
DIALOG information services, 9, 38
Digest of Education Statistics, 47, 48
Earnings data, 72-74
Earnings income, 52

Economic censuses, 5, 20, 26, 27–28, 
74
Economic Indicators of the Farm 
Sector, 76
Economic Research Service (ERS), 
30–33, 74
AutoFAX Service, 5, 77
Beale coding system, 3
County Typology system, 3–5 
sample counties, 6
Economic Indicators of the Farm 
Sector, 76
"Finder’s Advisory System," 32 - 
33
Information Division, 32
Internet access, 5, 128
Reports, 32
Rural Economy Division (RED), 
32
Economies of rural communities, 
65–87
Education data, 45–48
attainment data, 45, 46
enrollment data, 45–47
school finance data, 47
student achievement or proficiency, 
47-48
EIA Directory of Electronic Products, 
82
EIA Publications Directory, 82
Electronic data, 9, 127–28
Employment data, 65–72 
see also Labor force data
Employment and Earnings, 50
"Employment Situation, The," 70
Energy Information Administration 
(EIA), 82
"New Releases," 82
Enumeration districts, 113
Environmental impact statement 
(EIS), 78
Environmental Protection Agency 
(EPA), 16
Establishment defined, 26
Estimates of population, interpreting, 
43
Index

"Factfinder for the Nation," 35
Fax, data available by, 10
Federal Bulletin Board, 127
Federal Database Finder, The, 38
Federal data products, finding, 33-34
Federal depository libraries, 33, 48
listing by state or territory, 113-24
Federal government contributions to
local economies, 86, 87
Federal Insurance Contributions Act
(FICA), 70
Federal-State Cooperative Program
for Population Estimates, 26
Finances of County Governments
91-92
Forest Plans, 80
Forestry data, 77-80
Forest Service, U.S., 79, 80
"Guide to Your National Forests, 79
Land Areas of the National Forest
System, 79
Rural Community Assistance Program, 79
Freedom of Information Act, 34-35
Freedom of Information Clearing-
house, 34

Geographic Profile of Employment
and Unemployment, 51
Geological Survey, U.S., 16
Glossary, 97-102
Government censuses, 20, 26, 28, 47, 89
Government Organization, 89-90
Government Printing Office (GPO), 34, 35, 36, 47, 74
Government data, 88-95
difficulty of analyzing local govern-
ment, 89
federal government contributions to
local economies, 86-87
government censuses, 20, 26, 28, 47, 89
local government finance, 90, 93
local government structure, 89-90
public employment, 93-95
"Guide to State and Local Census
Geography, A," 15, 16
Hard copy, data available on, 8-9
Health data, 5, 62-64
on access to health resources, 63-64
on health status of the population, 62, 64
Health United States, 63
Housing Assistance Council (HAC), 59-60
Housing Characteristics of Rural
Households: 1991, 60
Housing data, 59-62
mobile homes, 59-60
number and characteristics of hous-
ing units, 61, 62
quality, indications of, 59-60, 62
Housing unit defined, 60
“How to Evaluate Population Esti-
mates," 43

Income data, 5, 26, 28, 30, 51-59, 56
Bureau of Economic Analysis, 5,
28-30, 55, 58
Census Bureau, 53, 55
earnings income, 52
gap between rural and urban
areas, 1
mean income, 52, 53
median income, 52, 53
money income, 52, 53
per capita personal income, 52, 54, 57
personal income, 52
poverty rate, 52, 53, 54

Government Printing Office (GPO), 34, 35, 36, 47, 74
Government data, 88-95
difficulty of analyzing local govern-
ment, 89
federal government contributions to
local economies, 86-87
government censuses, 20, 26, 28, 47, 89
local government finance, 90, 93
local government structure, 89-90

Income, Poverty, and Valuation of
Noncash Benefits, 54

Social Security Administration, 58-59
total personal income, 56
transfer payments, 57, 58

ERIC
"Income, Poverty, and Valuation of Noncash Benefits: 1993," 26
Incorporated places, 12
Information for Action: An Advocate’s Guide to Maternal and Child Health Data, 62
Information U.S.A., 36
Information U.S.A., 36–38
Insider’s Guide to Demographic Know-How, 18
Internal Revenue Service (IRS), 57
Statistics and Income Division, 41
Internet, data accessible through the, 5, 9, 127, 128
Interpretation and analysis of data, 6–7
Kossuth County, Iowa, 6, 42–44, 46, 48, 49, 50, 57, 64, 66, 76, 86, 87, 90, 91, 93, 94
Labor force data, 33, 48–51
characteristics of employment, 49, 50
employment data, 65, 72
participation rate, 48–49
Land View, 16–18
Lake County, Idaho, 6, 30, 31, 42–44, 46, 49, 50, 57, 66, 90, 91, 93, 94
Lesko’s Info Power, 36–38
Local Area Personal Income (LAPI), 30, 31
Local government, see Government data
Local Population Estimates, 55
Manufacturers, Annual Survey of, 28, 82
Manufacturing data, 28, 82–83
Mapping of data, 16–18
"Maps and More: Your Guide to Census Bureau Geography," 16
Mean income, 52, 53
Median income, 52, 53
Metropolitan areas, 2, 14–18
Mineral industries, census of, 80–81
Mining data, 80–81
Minor civil divisions (MCDs), 12
Money income, 52, 53
Money Income and Poverty Status of Persons in the United States, 54
Monthly Labor Review (MLR), 50
National Agricultural Library (NAL): ALF electronic bulletin board, 128
Rural Information Center (RIC), 38–39, 63
National Agricultural Statistics Service (NASS), 57, 74, 76
National Assessment of Education Progress (NAEP), 478
National Center for Education Statistics (NCES), 45, 47, 48
National Center for Health Statistics, 63
National Energy Information Center, 82
National Rural Development Partnership (NRDP), 39
National Technical Information Service (NTIS), 34
Nation’s Report Card, The, 48
Natural change in population, 42–43, 44
Net migration, 43–44
New Hampshire Office of State Planning (OSP), 61
Nicholas County, West Virginia, 6, 29, 42–44, 46, 48–49, 57, 66, 67, 70, 72, 73, 81, 90, 91, 93, 94
Nonmetropolitan areas, 14, 15
classification schemes for, 3–5
defined, 2
OASDI Beneficiaries by State and County, 59
OASDI Beneficiaries by Zip Code, 59
Office of Educational Research and Improvement (OERI), 47
Office of Management and Budget, 27

Index
Index

metropolitan and nonmetropolitan areas, classification of, 2
metropolitan statistical areas (MSAs), 14-15
poverty income thresholds established by, 52-53
O’Hare, William, 43
Old Age, Survivors, and Disability Income data, 58-59
Online data, 9-10, 127-28

Per capital income, 53, 57
Per capita personal income, 52
Personal income, 52
Physician Characteristics and Distribution in the U.S., 63
Place-of-residence basis, reporting on, 56
Population data, 41-44
age distribution, 44
natural change, 42-43, 44
net migration, 43-44
Population Paper Listings (PPL), 42
Poverty in the United States, 54
Poverty rate, 11, 52-53, 54
techniques for estimating, between decennial census years, 55
Primary data, 8
Private data sources, 6, 18
Prodigy, 9
Property taxes, local, 92
Public data, 18
Public Employment:
(Series GC[3]), 94
(Series GE-11), 95
Public employment data, 93-95

Real dollars, 53
Regional Economic Information System (REIS), 28, 30, 56, 58, 59, 71, 72
Regional Rural Development Centers, 6, 98
listing of, 113
Regions, 11

Researchers, tips for, 21
finding federal data products, 33-34
Retail trade, census of, 83-84
Rural area, defined, 2, 16
Rural Conditions and Trends, 32
Rural data:
Beale coding system, 3
Bureau of the Census definition of, 2
defined, 2-5
Economic Research Service County Typology system, 3-5
Office of Management and Budget definition of, 2
Rural Development Councils state, 6, 39
Rural Development Perspectives, 32
Rural Information Center (RIC), National Agricultural Library (NAL), 38-39, 63
Rural Information Center Health Service (RICHS), 63

Sales and Marketing Management, 84
Sample data, 10-11
Sampling error, 11
Secondary data, 8
Service industry, census of, 85, 86
Service industry data, 84-86
service sector distinguished from service industry, 84
Social and Economic Characteristics, 22, 24, 25, 70
Social Security Administration, 53
Old Age, Survivors, and Disability Income data, 58-59
Sourcebook of County Demographics, The, 84
Sourcebook of Zip Code Demographics, The, 84
Standard Industrial Classification (SIC), 27
"State and Metropolitan Area Employment and Unemployment," 70
State Board of Equalization, 92
State data centers, listing of, 113-24
State Data Center (SDC) program, 34
State data sources, 6
State Department of Revenue, 92
State education agencies, 47, 48
State employment security agencies (SESAs), 48, 57, 67-69, 71, 72, 78-79
State Forest and Range Experiment Station, 79
State forestry agencies, 78
State land grant universities, 6
Statistical Reference Index (SRI), 38
Statistics, defined, 8
Survey of Buying Power, 84
Survey of Current Business, 30
Survey of Minority-Owned Business Enterprises, 74
Survey of Women-Owned Businesses, 74
Surveys, collection of data by, 8
Tape, data available on, 9
Taxable Property Values, 92
TIGER (Topologically Integrated Geographic Encoding and Referencing) database, 16
Timber policy, federal, 79-80
Total personal income, 56
Trade industry data, 83-84
Transfer payments, 57, 58
Unemployment, see Employment data; Labor force data
Unemployment in States and Local Areas, 49-50
U.S. Industrial Outlook, 74
Urban area defined, 2, 15-16
USA Counties, 36
Valuation of Noncash Benefits, 54
West Virginia Bureau of Employment Programs, 72, 73
West Virginia Department of Employment Security, 71
West Virginia Department of Mines, 80
Wholesale trade, census of, 83-84
Yavapai County, Arizona, 6, 17, 24, 42-44, 46, 57, 58, 66, 74, 85, 87, 90, 91, 93, 94
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### Acronyms Used in This Book

<table>
<thead>
<tr>
<th>Acronym</th>
<th>Description</th>
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<tbody>
<tr>
<td>AHS</td>
<td>American Housing Survey</td>
</tr>
<tr>
<td>AI/ANA</td>
<td>American Indian and Alaska Native Areas</td>
</tr>
<tr>
<td>BBS</td>
<td>(electronic) Bulletin Board Service</td>
</tr>
<tr>
<td>BEA</td>
<td>Bureau of Economic Analysis (U.S. Department of Commerce)</td>
</tr>
<tr>
<td>BG</td>
<td>block group</td>
</tr>
<tr>
<td>BLS</td>
<td>Bureau of Labor Statistics (U.S. Department of Labor)</td>
</tr>
<tr>
<td>CBP</td>
<td>County Business Patterns</td>
</tr>
<tr>
<td>CCD</td>
<td>census county division</td>
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<tr>
<td>CCDDB</td>
<td>County and City Data Book</td>
</tr>
<tr>
<td>CDP</td>
<td>census designated place</td>
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<tr>
<td>CD-ROM</td>
<td>compact disk—read only memory</td>
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<tr>
<td>CFFR</td>
<td>Consolidated Federal Funds Report</td>
</tr>
<tr>
<td>CPI</td>
<td>Consumer Price Index</td>
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<tr>
<td>CPS</td>
<td>Current Population Survey</td>
</tr>
<tr>
<td>DUSD</td>
<td>Data User Services Division (U.S. Bureau of the Census)</td>
</tr>
<tr>
<td>EIA</td>
<td>Energy Information Administration (U.S. Department of Energy)</td>
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<tr>
<td>EIS</td>
<td>environmental impact statement</td>
</tr>
<tr>
<td>ERS</td>
<td>Economic Research Service (U.S. Department of Agriculture)</td>
</tr>
<tr>
<td>FICA</td>
<td>Federal Insurance Contributions Act</td>
</tr>
<tr>
<td>FTE</td>
<td>full-time equivalent</td>
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<tr>
<td>GDP</td>
<td>Gross Domestic Product</td>
</tr>
<tr>
<td>GPO</td>
<td>Government Printing Office</td>
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<tr>
<td>LAP1</td>
<td>Local Area Personal Income</td>
</tr>
<tr>
<td>LPI</td>
<td>labor and proprietor income</td>
</tr>
<tr>
<td>MCD</td>
<td>minor civil division</td>
</tr>
<tr>
<td>MSA</td>
<td>metropolitan statistical area</td>
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<tr>
<td>NASS</td>
<td>National Agricultural Statistics Service (U.S. Department of Agriculture)</td>
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<tr>
<td>NCES</td>
<td>National Center for Educational Statistics (U.S. Department of Education)</td>
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<tr>
<td>NRC</td>
<td>National Research Council</td>
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<tr>
<td>NTIS</td>
<td>National Technical Information Service</td>
</tr>
<tr>
<td>OASDI</td>
<td>Old Age Survivors and Disability Insurance</td>
</tr>
<tr>
<td>OERI</td>
<td>Office of Educational Research and Improvement (U.S. Department of Education)</td>
</tr>
<tr>
<td>OMB</td>
<td>Office of Management and Budget</td>
</tr>
<tr>
<td>RFD</td>
<td>Rural Economy Division (ERS, U.S. Department of Agriculture)</td>
</tr>
<tr>
<td>RHS</td>
<td>Regional Economic Information System (BEA, U.S. Department of Commerce)</td>
</tr>
<tr>
<td>SDC</td>
<td>state data center</td>
</tr>
<tr>
<td>SESA</td>
<td>state employment security agency</td>
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<td>SIC</td>
<td>Standard Industrial Classification</td>
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<td>SSA</td>
<td>Social Security Administration</td>
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<td>USDA</td>
<td>U.S. Department of Agriculture</td>
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Advance praise for *Guide to Rural Data*:

“This is a masterful survey of a large, complex, and scattered set of data sources known only to a few rural experts. The authors make the reader a confident user of all the data available for analysis or planning at the local level. It is a unique guide to describing a local situation and placing it in the overall rural and national contexts.”

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“Practical and up-to-date tips, leads, questions and contacts are littered throughout this book. Salant and Waller do a real service for rural researchers.”

—HAL FOSSUM, Policy Analyst, Northwest Policy Center

First published in 1990 as *A Community Researcher’s Guide to Rural Data*, this indispensable volume now guides the reader to the most current information on rural America in both print and electronic form. The authors further illustrate how data on local population and community resources, economics, and government can be used to analyze social and economic change. Appendices include details about federal statistics programs along with addresses and phone numbers for federal and state offices that house or collect data.

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Washington, D.C. • Covelo, California

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