

## Appendix I

# Guide to— Sources of Statistics, State Statistical Abstracts, and Foreign Statistical Abstracts

Alphabetically arranged by subject, this guide contains references to the important primary sources of statistical information for the United States. Secondary sources have been included if the information contained in them is presented in a particularly convenient form or if primary sources are not readily available. Nonrecurrent publications presenting compilations or estimates for years later than 1980 or types of data not available in regular series are also included.

Much valuable information may also be found in State reports (see pp. 901-905) and foreign statistical abstracts (see pp. 906 and 907) and in reports for particular commodities, industries, or similar segments of our economic and social structures, many of which are not included here.

Publications listed under each subject are divided into two main groups: "U.S. Government" and "Other." The location of the publisher of each report is given except for Federal agencies located in Washington, DC. Most Federal publications may be purchased from the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402, tel. 202-783-3238, or from Government Printing Office bookstores in certain major cities. In some cases, Federal publications may be obtained from the issuing agency.

Major reports, such as the Census of Population, which consist of many volumes, are listed by their general, all-inclusive titles.

## Bureau of the Census Publications

In most cases, separate reports of the most recent censuses are available for each State, subject, industry, etc. Complete information on publications of all the censuses and current surveys conducted by the Bureau of the Census appears in the *Bureau of the Census Catalog*, published annually and available from the Superintendent of Documents.

Abortions—see Vital Statistics.

**Accidents** —see also Health; Insurance; and Vital Statistics

### *U.S. Government*

Bureau of Labor Statistics  
Handbook of Labor Statistics. 1989.  
Occupational Injuries and Illnesses in the  
United States by Industry. Annual.

Department of Transportation  
Transportation Safety Information Report.  
Quarterly.

Federal Railroad Administration  
Accident/Incident Bulletin. Summary, statistics, and analysis of accidents on railroads in the United States. Annual.  
Rail-Highway Crossing Accident/Incident and Inventory Bulletin. Annual.

Mine Safety and Health Administration  
Informational Reports by Mining Industry:  
Coal; Metallic Minerals; Nonmetallic Minerals (except stone and coal); Stone, Sand, and Gravel. Annual.  
Mine Injuries and Worktime. (Some preliminary data.) Quarterly.

National Center for Health Statistics  
Vital Statistics of the United States. Annual.  
Volume I, Natality  
Volume II, Mortality  
Volume III, Marriage and Divorce

**Accidents** —Con.

### *U.S. Government* —Con.

National Transportation Safety Board  
Accidents; Air Carriers. Annual.  
Accidents; General Aviation. Annual.

### *Other*

Metropolitan Life Insurance Company, New York, NY

Health and Safety Education.  
Statistical Bulletin. Quarterly.

National Fire Protection Association, Quincy, MA

Fire Journal. Bimonthly.

National Safety Council, Chicago, IL

Accident Facts. Annual.

**Agriculture** —see also Food; Foreign Commerce; Labor; Money and Banking; and Population

### *U.S. Government*

Bureau of the Census

Census of Agriculture. Quinquennial. (1987, most recent.)

U.S. Commodity Exports and Imports as Related to Output. Annual. (Series ES2.)

Bureau of the Census and Bureau of Mines  
Raw Materials in the United States Economy; 1900-1977. (Issued 1980. Working Paper No. 47.)

**Agriculture —Con.***U.S. Government —Con.*

## Bureau of Reclamation

## Summary Statistics:

Vol. I, Water, Land, and Related Data.

## Commodity Futures Trading Commission

## Annual Report.

Commitments of Traders in Commodity Futures. Monthly.

## Department of Agriculture

Agricultural Chartbook. Annual.

Agricultural Income and Finance. Situation and Outlook Report. Quarterly.

Agricultural Outlook. 11 issues per year.

Agricultural Price Reports. Reports on prices received for farm commodities, prices paid for farm supplies, indexes and parity ratios. Monthly and annual.

The Agricultural Work Force of 1987: A Statistical Profile. (Agricultural Economic Report No. 609.) May 1989.

Crop Production Reports. Acreage, yield, and production of various commodities. Monthly and annual.

Crop Values Report. Price and value of various commodities. Annual.

Economic Indicators of the Farm Sector. A series of 5 annual issues.

Farmlife. 11 issues per year.

Fertilizer Use and Price Statistics, 1960–88. (Statistical Bulletin No. 780.) Periodic.

Financial Characteristics of U.S. Farms, January 1, 1989. (Agriculture Information Bulletin. No. 569.) Annual.

Food Consumption, Prices, and Expenditures, 1967–88. (Statistical Bulletin No. 804.) Revised annually.

Food Marketing Review, 1988. (Agricultural Economic Report No. 614.) Revised annually.

Food Spending in American Households. (Statistical Bulletin No. 791.) Annual.

Foreign Agricultural Trade of the United States (FATUS). 6 issues with annual supplements on calendar year and fiscal year trade data.

Fruit and Vegetable Reports. Acreage, yield, production, value, and utilization of various fruits and vegetables. Periodic.

Journal of Agricultural Economics Research. Quarterly.

Livestock and Meat Statistics, 1984–88. (Statistical Bulletin No. 784.) Annual.

Milk and Dairy Products Reports. Milk cows, milk production, and dairy products. Monthly and annual.

Other Reports. Reports on varied items including cold storage, farm employment and wages, farm production expenditures, mink, mushrooms, and floriculture crops. Monthly and annual.

**Agriculture —Con.***U.S. Government —Con.*

## Department of Agriculture—Con.

Poultry and Egg Reports. Reports covering eggs, chickens, turkeys, hatcheries, egg products, and poultry slaughter. Weekly, monthly, annual.

Rural Development Perspectives. 3 issues per year.

Situation and Outlook Reports. Issued for agricultural exports, cotton and wool, dairy, feed, fruit and tree nuts, agricultural resources, livestock and poultry, oil crops, rice, aquaculture, sugar and sweeteners, tobacco, vegetables, wheat, and world agriculture. Monthly, quarterly, annual.

Stock Reports. Stocks of grain, hops, peanuts, potatoes, rice, and soybeans. Quarterly, annual, periodic.

U.S. Egg and Poultry Statistical Series, 1960–87. (Statistical Bulletin No. 775.) Periodic.

U.S. Rice Distribution Patterns, 1986/87. (Statistical Bulletin No. 776.) Periodic.

Weekly Weather and Crop Bulletin. Report summarizing weather and its effect on crops the previous week.

## Farm Credit Administration

## Annual Report.

Loans and Discounts of Farm Credit Banks and Associations. Annual.

## National Oceanic and Atmospheric Administration

Weekly Weather and Crop Bulletin. National summary.

## Soil Conservation Service

National Resources Inventory, 1982. Periodic.

Report of Administrator of Soil Conservation Service. Annual.

Air Force —see National Defense.

Air Pollution —see Environment.

Aliens —see Immigration.

American Samoa —see Outlying Areas.

Area —see Geography.

Army— see National Defense.

Aviation— see Transportation.

Banks and Banking— see Money.

Births— see Vital Statistics.

Broadcasting— see Communications.

Building Permits— see Construction.

**Business** —see also Economic Indexes; Investments; Manufactures; Retail and Wholesale Trade; Science Resources; and Service Establishments*U.S. Government*

## Administrative Office of the United States Courts

Annual Report of the Director.

## Board of Governors of the Federal Reserve System

Federal Reserve Bulletin. Monthly.

**Business —Con.***U.S. Government —Con.*

- Bureau of the Census
  - Census of Retail Trade. Quinquennial. (1987, most recent.)
  - Census of Service Industries. Quinquennial. (1987, most recent.)
  - Census of Wholesale Trade. Quinquennial. (1987, most recent.)
  - Census of Transportation. Quinquennial. (1987, most recent.)
  - County Business Patterns. Annual.
  - Characteristics of Business Owners. 1982.
  - Current Business Reports. Retail Trade, Sales, and Inventories, BR; and Wholesale Trade, Sales, and Inventories, BW.
  - Minority-Owned Businesses. Quinquennial. (1982, most recent.)
  - Quarterly Financial Report for Manufacturing, Mining, and Trade Corporations.
- Bureau of Economic Analysis
  - Business Statistics, 1961-88. 1989.
  - The Detailed Input-Output Structure of the U.S. Economy, 1977. 1984.
  - Fixed Reproducible Tangible Wealth in the United States, 1925-85. 1987.
  - The National Income and Product Accounts of the United States, 1929-1982: Statistical Tables. 1986.
  - Selected Data on U.S. Direct Investment Abroad, 1950-89. 1990.
  - Summary Input-Output Tables of the U.S. Economy: 1980-85. 1990.
  - Survey of Current Business. Monthly.
- Council of Economic Advisers
  - Economic Indicators. Monthly.
  - Economic Report of the President. Annual.
- Federal Trade Commission
  - Mergers & Acquisitions, 1972-1974. 1978.
- Internal Revenue Service
  - Statistics of Income.
    - Corporation Income Tax Returns. Annual.
    - Statistics of Income Bulletin. Quarterly.
- International Trade Administration
  - U.S. Industrial Outlook. Annual.
- Patent and Trademark Office
  - Commissioner of Patents and Trademarks Annual Report.
  - Patenting Trends in the United States, State Country Report, 1963-1988.
  - Technology Assessment and Forecast Report - "All Technologies". Annual.
- Securities and Exchange Commission
  - Annual Report.
  - Statistical Review. Monthly. (Discontinued February 1989.)
- Small Business Administration
  - Annual Report.

*Other*

- The Conference Board, New York, NY
- Economic Road Maps. Monthly.

**Business —Con.***Other —Con.*

- The Dun & Bradstreet Corporation, New York, NY
  - The Business Failure Record. Annual.
  - Monthly Business Starts Report.
  - Monthly Business Failure Report.
  - Monthly New Business Incorporations Report.
  - Quarterly Survey of Business Expectations.
- Fortune (Time Warner), New York, NY
  - The Fortune Directory of the 500 Largest Industrial Corporations. (Annual supplement to Fortune.)
  - The Fortune Directory of the 500 Largest Non-Industrial Corporations. (Annual supplement to Fortune.)
- National Bureau of Economic Research, Cambridge, MA
  - Financial Aspects of the United States Pension System, Zvi Bodie and John B. Shoven, editors. 1983. (University of Chicago Press, Chicago, IL.)
  - The U.S. National Income and Product Accounts: Selected Topics, Murray F. Foss, editor. 1982. (Studies in Income and Welfare, No. 47.) (University of Chicago Press, Chicago, IL.)
- Child Welfare —see Education; and Social Insurance.
- City Government —see State and Local Government.
- Civil Service —see Federal Government; and State and Local Government.
- Climate —see also Agriculture
- U.S. Government*
  - National Oceanic and Atmospheric Administration
    - Climatology of the United States, No. 20, Supplement No. 1, Freeze/Frost Data.
    - Climatology of the United States, No. 81: Monthly Normals of Temperature, Precipitation, and Heating and Cooling Degree Days 1951-80. 1982. Issued by State.
    - Climatological Data. Issued in sections for States and outlying areas. Monthly with annual summary.
    - Comparative Climatic Data Through 1987. General Summary of Tornadoes. Annual.
    - Hourly Precipitation Data. Monthly with annual summary; for each State.
    - Local Climatological Data. Monthly with annual summary; for major cities.
    - Storm Data. Monthly.
    - Weekly Weather and Crop Bulletin. National summary.
- Commerce —see Foreign Commerce; Retail and Wholesale Trade; and Transportation.
- Commodity Prices —see also Economic Indexes

**Commodity Prices —Con.***U.S. Government*

Board of Governors of the Federal Reserve System

Federal Reserve Bulletin. Monthly.

Bureau of Labor Statistics

Consumer Prices: Energy and Food. Monthly.

CPI Detailed Report. Monthly.

Handbook of Labor Statistics. 1989.

Monthly Labor Review.

Producer Price Indexes. Monthly, with annual supplement.

Relative Importance of Components in the Consumer Price Indexes. Annual.

U.S. Import and Export Price Indexes. Monthly.

Department of Agriculture

Agricultural Price Reports. Monthly and annual.

*Other*

Commodity Research Bureau, a Knight-Ridder Business Information Service, New York, NY  
Commodity Year Book Statistical Abstract Service. (3 editions annually.)

CRB Commodity Index Report. Weekly.

CRB Commodity Year Book. Annual.

CRB Futures Chart Service. Weekly.

Electronic Futures Trend Analyzer. Daily.

Futures Market Service. Weekly.

Wall Street Journal. (Dow Jones & Co., New York, NY.) Daily except Saturdays, Sundays, and holidays.

**Communications —see also Newspapers***U.S. Government*

Federal Communications Commission

Annual Report.

Statistics of Communications Common Carriers. Annual.

Rural Electrification Administration

Annual Statistical Report—Rural Telephone Borrowers.

U.S. Postal Service

Annual Report of the Postmaster General.

Cost and Revenue Analysis. Annual.

*Other*

John Blair & Company, New York, NY

Statistical Trends in Broadcasting. Annual.

Book Industry Study Group, Inc., New York, NY

Book Industry Trends. Annual.

Broadcasting Publications, Inc., Washington, DC

Broadcasting Magazine. Weekly.

The Broadcasting Yearbook.

Corporation for Public Broadcasting, Washington, DC

Average Revenue Profiles for Public Broadcasting Stations.

Public Broadcasting Income. Annual.

**Communications —Con.***Other —Con.*

Corporation for Public Broadcasting, Washington, DC—Con.

Public Broadcasting Stations' Income from State Governments and State Colleges & Universities Ranked State-By-State.

Public Broadcasting: Statistical Brief. Annual.

Public Radio and Television Programming Content by Category. Biennial.

Editor & Publisher Co., New York, NY

International Year Book. Annual.

Market Guide. Annual.

Electronic Industries Association, Washington, DC

Electronic Market Data Book. Annual.

Electronic Market Trends. Monthly.

Electronics Foreign Trade. Monthly.

Electronics Foreign Trade Five-Year Summary. Annual.

Radio Advertising Bureau, New York, NY

Radio Facts. Annual.

United States Telephone Association, Washington, DC

Statistics of the Independent Telephone Industry. Annual.

Warren Publishing, Inc., Washington, DC

Cable Action Update. Weekly.

Cable and Station Coverage Atlas. Annual.

Television Action Update. Weekly.

Television and Cable Factbook. Annual.

TV Station & Cable Ownership Directory. Semi-annual.

**Construction, Housing, and Real Estate —see also Money and Roads***U.S. Government*

Board of Governors of the Federal Reserve System

Federal Reserve Bulletin. Monthly.

Bureau of Census

Census of Construction Industries. Quinquennial. (1987, most recent.)

Census of Housing. Decennial. (1980, most recent.)

Current Construction Reports: Housing Starts, C20 (monthly); New Residential Construction in Selected Metropolitan Statistical Areas, C21 (quarterly); Housing Completions, C22 (monthly); New One-Family Houses Sold and for Sale, C25 (monthly with annual report, Characteristics of New Housing); Price Index of New One-Family Houses Sold, C27 (quarterly); Value of New Construction Put in Place, C30 (monthly with occasional historical supplement); Housing Units Authorized by Building Permits, C40 (monthly and annual); Residential Alterations and Repairs, C50 (quarterly and annual).

# **Construction, Housing, and Real Estate —Con.** *U.S. Government —Con.*

## **Bureau of Census—Con.**

Current Housing Reports: Housing Vacancies, H-111 (quarterly and annual); Market Absorption of Apartments, H-130 (quarterly and annual); Characteristics of Apartments Completed, H-131 (annual); Annual Housing Survey, H-150 (series of six biennial reports); Annual Housing Survey—Housing Characteristics for Selected Metropolitan Areas, H-170.

Social Indicators, 1980.

## **Bureau of Economic Analysis**

Business Statistics, 1961-88. 1989.

Fixed Reproducible Tangible Wealth in the United States, 1925-85. 1987.

The National Income and Product Accounts of the United States, 1929-82: Statistical Tables. 1986.

Survey of Current Business. Monthly.

## **Bureau of Labor Statistics**

Current Wage Developments. Monthly.

Employment and Earnings. Monthly.

Employment, Hours, and Earnings, United States, 1909-84. 1985. (Bulletin No. 131212.)

Monthly Labor Review.

Occupational Employment in Mining, Construction, Finance, and Services. 1989. (Bulletin No. 2330.)

Occupational Injuries and Illnesses in the United States by Industry. Annual.

## **Department of Housing and Urban Development**

Survey of Mortgage Lending Activity. Monthly and quarterly press releases.

## **Department of Veterans Affairs**

Loan Guaranty Highlights. Quarterly.

Trend Data 1964-1988.

## **Energy Information Administration**

Residential Energy Consumption Survey: Housing Characteristics. Triennial.

## **International Trade Administration**

Construction Review. Bimonthly.

## **Office of Thrift Supervision**

Annual Report.

Savings and Home Financing Source Book. Annual.

## **Other**

Dodge, F.W., National Information Services Division, McGraw-Hill Information Systems Co., New York, NY

Dodge Construction Potentials. Monthly.

NATIONAL ASSOCIATION OF REALTORS, Washington, DC

Existing Home Sales. Monthly.

# **Consumer Income and Expenditures, and Personal Income —see also Agriculture; Economic Indexes; Investments; and National Income**

## **U.S. Government**

Board of Governors of the Federal Reserve System

Federal Reserve Bulletin. Monthly.

# **Consumer Income and Expenditures, and Personal Income —Con.**

## **U.S. Government —Con.**

## **Bureau of the Census**

Census of Population. Decennial. (1980, most recent.)

Current Population Reports. (Series on Consumer Income, P-60.)

Current Population Reports. (Series on Household Economic Studies, P-70.)

Special Studies Reports. (Series on Special Studies, P-23.)

## **Bureau of Economic Analysis**

Business Statistics, 1961-88. 1989.

Local Area Personal Income, 1982-87. Annual personal income by type of income and by major industries, and population, and per capita income, for States, counties, and metropolitan areas. Five volumes. 1989.

Survey of Current Business. Monthly.

## **Bureau of Labor Statistics**

Consumer Expenditure Survey: Interview Survey, 1984. 1986. (Bulletin No. 2267.)

Consumer Expenditure Survey: Interview Survey, 1984-88. 1989. (Bulletin No. 2332.)

Consumer Expenditure Survey: Integrated Survey Data, 1984-86. (Bulletin No. 2333.)

Handbook of Labor Statistics. 1989.

## **Congressional Budget Office**

The Changing Distribution of Federal Taxes: 1975-1990. October 1987.

Trends in Family Income: 1970-1986. February 1988.

## **Internal Revenue Service**

Statistics of Income.

Individual Income Tax Returns. Annual.

Statistics of Income Bulletin. Quarterly.

## **National Science Foundation**

Academic Science/Engineering: Graduate Enrollment and Support. Detailed Statistical Tables. Annual.

Characteristics of Doctoral Scientists and Engineers in the United States. Detailed Statistical Tables. Biennial.

Characteristics of Recent Science/Engineering Graduates. Detailed Statistical Tables. Biennial.

Doctoral Scientists and Engineers: A Decade of Change. Special Report. (NSF 88-302.)

Federal Scientists and Engineers. Detailed Statistical Tables. Annual.

Profiles Aeronautical/Astronautical Engineering, Agricultural Science, Biological Science, Chemical Engineering, Chemistry, Civil Engineering, Computer Sciences, Economics, Electrical/Electronic Engineering, Mechanical Engineering, and Psychology: Human Resources and Funding. Special Reports. (NSF 89-314, 89-319, 89-318, 89-312, 87-307, 90-303, 88-324, 88-333, 88-326, 87-309, and 88-325, respectively.)

**Consumer Income and Expenditures, and Personal Income —Con.***U.S. Government —Con.*

## National Science Foundation—Con.

Science and Engineering Personnel: A National Overview. Report. Biennial.

Science and Technology Data Book. Report. Annual.

Science Resources Studies Highlights. Frequent.

Doctoral Awards in the Sciences Reached Record High in 1988. (NSF 89-302.)

Favorable Employment Opportunities Continue for Recent S/E Graduates. (NSF 90-315.)

More Recent Science and Engineering (S/E) Graduates Finding S/E Jobs. (NSF 88-310.)

Pace of Retirements of Ph.D. Scientists and Engineers Show Gradual Increase. (NSF 89-305.)

Scientists and Engineers Now Account for Over 4 Percent of Total U.S. Employment. (NSF 87-313.)

U.S. Scientists and Engineers. Detailed Statistical Tables. Biennial.

Women and Minorities in Science and Engineering. Report. Biennial.

## Social Security Administration

Trends since 1960 in the Economic Status of Aged Men and Women. (Research and Statistics Note No. 3. 1983.)

*Other*

American Financial Services Association, Washington, DC

AFSA Annual Research Report and Second Mortgage Lending Report on Finance Companies. Annual.

AFSA Annual Research Report and Second Mortgage Lending Report Supplements. Annual.

Finance Facts Yearbook. Annual. (Discontinued in 1988.)

Consumer Prices —see Commodity Prices.

Corporations —see Business; and Manufactures.

Correctional Institutions —see Law Enforcement.

Cost of Living —see Commodity Prices.

Courts —see Law Enforcement.

Crime —see Law Enforcement.

Crops —see Agriculture.

Deaths —see Vital Statistics.

Defense —see National Defense.

Divorce —see Vital Statistics.

Domestic Trade —see Retail and Wholesale Trade; and Service Establishments.

**Economic Indexes** —see also Agriculture; Business; Commodity Prices; Manufactures; and Science Resources

**Economic Indexes —Con.***U.S. Government*

Board of Governors of the Federal Reserve System

Federal Reserve Banks. Monthly review published by each Bank with special reference to its own Federal Reserve District.

Federal Reserve Bulletin. Monthly. (Also monthly releases on industrial production indexes.)

## Bureau of Economic Analysis

Business Statistics, 1961-88. 1989.

The National Income and Product Accounts of the United States, 1929-82: Statistical Tables. 1986.

Survey of Current Business. Monthly.

## Bureau of Labor Statistics

Handbook of Labor Statistics. 1989.

Monthly Labor Review.

## Council of Economic Advisers

Economic Indicators. Monthly.

Economic Report of the President. Annual.

*Other*

The Conference Board, New York, NY

The Conference Board Statistical Bulletin. Monthly.

National Bureau of Economic Research, Cambridge, MA

The National Balance Sheet of the United States, 1953-80, by Raymond W. Goldsmith. 1982. (University of Chicago Press, Chicago, IL.)

The U.S. National Income and Product Accounts: Selected Topics, Murray F. Foss, editor. 1982. (Studies in Income and Wealth, No. 47.) (University of Chicago Press, Chicago, IL.)

**Education** —see also Science Resources; and Vocational Rehabilitation

*U.S. Government*

## Bureau of the Census

Census of Population. Decennial. (1980, most recent.)

Current Population Reports. (Series on Population Characteristics, P-20; and Special Studies, P-23.)

Finances of Public School Systems. Annual. (GF No. 10.)

## Bureau of Labor Statistics

Educational Attainment of Workers, March 1982-83. 1984. (Bulletin No. 2191.)

Handbook of Labor Statistics. 1989.

How Workers Get Their Training. 1985. (Bulletin No. 2226.)

Labor Force Statistics Derived From the Current Population Survey, 1948-87. 1988. (Bulletin No. 2307.)

Occupational Projections and Training Data. Biennial.

Students, Graduates, and Dropouts, October 1980-82. 1983. (Bulletin No. 2192.)

**Education —Con.***U.S. Government —Con.***Department of Education****Annual Report.**

Inflation Measures for Schools and Colleges. September 1983.

**Employment and Training Administration**

Employment and Training Report of the President. Annual.

Associate Degrees and Other Formal Awards Below the Baccalaureate. Annual.

College and University Library Survey. (1985, most recent.)

The Condition of Education. Annual.

Digest of Education Statistics. Annual.

Earned Degrees Conferred. Annual.

Faculty Salaries, Tenure, and Benefits. Annual.

Fall Enrollment in Colleges and Universities. Annual.

High School and Beyond. Reports issued on 1980 high school sophomores and seniors and their transition to further education and labor force participation.

National Longitudinal Study. Reports issued on high school seniors from class of 1972 and their transition to higher education and the labor force.

Participation in Adult Education. (1984, most recent.)

Projections of Education Statistics. Annual.

Residence and Migration of College Students. (1986, most recent.)

Revenues and Expenditures for Public Elementary and Secondary Education. Annual.

**National Center for Education Statistics**

Academic Science/Engineering: Graduate Enrollment and Support.

Detailed Statistical Tables. Annual.

Academic Science/Engineering: R&D Funds. Detailed Statistical Tables. Annual.

Characteristics of Doctoral Scientists and Engineers in the United States. Detailed Statistical Tables. Biennial.

Characteristics of Recent Science/Engineering Graduates. Detailed Statistical Tables. Biennial.

Federal Support to Universities, Colleges, and Selected Nonprofit Institutions. A report to the President and Congress. Detailed Statistical Tables. Annual.

International Science and Technology Data Update. Report. Annual.

National Patterns of R&D Resources. Report. Annual.

Profiles—Aeronautical/Astronautical Engineering, Agricultural Science, Biological Science, Chemical Engineering, Chemistry, Civil Engineering, Computer Science, Economics, Electrical/Electronic Engineering, Mechanical Engineering, and Psychology: Human Resources and Funding. Special Reports. (NSF 89-314, 89-319, 89-318, 89-312, 87-307, 90-303, 88-324, 88-333, 88-326, 87-309, and 88-325, respectively).

**Education —Con.***U.S. Government —Con.***National Center for Education Statistics—Con.**

Research and Development Expenditures of State Government Agencies: Fiscal Years 1987 and 1988. Special Report. (NSF 90-309.)

Science and Engineering Degrees. A Source Book. Detailed Statistical Tables. Occasional.

Science and Engineering Doctorates. Detailed Statistical Tables. Annual.

Science and Engineering Indicators. Report. Biennial.

Science and Engineering Personnel: A National Overview. Report. Biennial.

Science and Technology Data Book. Report. Annual.

Science Resources Studies Highlights. Frequent.

Doctoral Awards in the Sciences Reached Record High in 1988. (NSF 89-302.)

Engineering Doctoral Awards Reached Record High in 1987. (NSF 88-334.)

Favorable Employment Opportunities Continue for Recent S/E Graduates. (NSF 90-315.)

Foreign Students Account for Most Growth in Graduate Science and Engineering Enrollment. (NSF 88-316.)

Growth Rate in Non-Federal Academic R&D Support Exceeds That in Federal Support in Last Decade. (NSF 89-309.)

Non-Federal Sources Lead Growth in Academic Research Instrumentation Support. (NSF 88-391.)

Real Growth in Academic R&D Spending Slowed to 2% in FY 1987, Down from 9% in 1986. (NSF 88-314.)

Real Increase in 1988 National R&D Funds Estimated at Lowest Rate in Eleven Years. (NSF 88-303.)

Recent-Doctorate Faculty Increase in Engineering and Some Science Fields. (NSF 87-310.)

Universities Report Improvement in Computer and Physical Science Instrumentation, but Deterioration in Engineering. (NSF 87-316.)

Scientific and Engineering Research Facilities at Universities and Colleges. Report. Biennial.

Women and Minorities in Science and Engineering. Report. Biennial.

**Office for Civil Rights**

Racial, Ethnic and Sex Enrollment Data, From Institutions of Higher Education. Fall 1982. Biennial.

**Education —Con.***U.S. Government —Con.*

## Office for Civil Rights—Con.

State and National Summaries of Data from the Fall 1982 Civil Rights Survey of Elementary and Secondary Schools. Biennial.

*Other*

American Council on Education, Washington, DC

A Fact Book on Higher Education. Quarterly.

National Norms for Entering College Freshmen. Annual.

Bowker (R.R.) Company, New York, NY

American Library Directory. Annual.

Book Publishing Annual. (1985, most recent.)

Bowker Annual Library and Book Trade Almanac.

Chronicle of Higher Education, Inc., Washington, DC

Almanac. Annual.

College Entrance Examination Board, New York, NY

National Report on College-Bound Seniors. Annual.

National Catholic Educational Association, Washington, DC

Catholic Schools in America. Annual.

United States Catholic Elementary and Secondary Schools. Annual.

National Education Association, Washington, DC

Estimates of School Statistics. Annual.

Rankings of the States. Annual.

Status of the American Public School Teacher, 1985-86. Quinquennial.

Research Associates of Washington, Washington, DC

Higher Education Price Indexes. Annual.

School Price Index. Annual.

State Profiles: Financing Public Higher Education. Annual.

**Elections***U.S. Government*

## Bureau of the Census

## Congressional District Data:

1980 Census of Population and Housing, PHC80-4, Congressional Districts of the 98th and 99th Congress.

1980 Census of Population and Housing, PC80-SI-8, Congressional District Profiles, 98th Congress.

Current Population Reports. (Series P-20, Voting and Registration in the Election of November 19—. Biennial survey; and P-25, Projections of the Population of Voting Age for States: November 19—, Biennial projection.)

**Elections —Con.***U.S. Government —Con.*

## Commission on Civil Rights

New Evidence on School Desegregation. 1987.

The Economic Status of Americans of Asian Descent. 1988.

The Economic Status of Americans of Southern and Eastern European Ancestry. 1986.

The Voting Rights Act: Unfulfilled Goals. 1981.

## Congress. Clerk of the House

Statistics of the Presidential and Congressional Election Years. Biennial.

## Congress. Joint Committee on Printing

Congressional Directory. Biennial.

*Other*

The Council of State Governments, Lexington, KY

The Book of the States and its Supplement I, State Elective Officials and the Legislatures. Biennial.

State Legislative Leadership, Committees, and Staff. Biennial.

## Elections Research Center, Washington, DC

America Votes. A handbook of contemporary American election statistics, compiled and edited by Richard M. Scammon and Alice V. McGillivray. Biennial.

## Joint Center for Political Studies, Washington, DC

Black Elected Officials: A National Roster. Annual.

Michigan, The University of, Center for Political Studies, Institute for Social Research, Ann Arbor, MI

Who Voted and for Whom. Biennial.

## National Association of Latino Elected and Appointed Officials, Washington, DC

National Roster of Hispanic Elected Officials. Annual.

## Pharos Books/World Almanac, New York, NY

The World Almanac and Book of Facts. Annual.

World Almanac of U.S. Politics. 1989. 2nd edition, May 1991.

Electric Utilities —see Energy.

Emigration —see Immigration.

Employment —see Federal Government; Labor; and State and Local Government.

Energy —see also communications; Manufactures; Minerals; and Transportation

*U.S. Government*

## Bureau of the Census

Current Industrial Reports. Monthly, quarterly, and annual series on various industries.

Bureau of the Census and Bureau of Mines



**Energy —Con.***U.S. Government —Con.*

## Bureau of the Census—Con.

Raw Materials in the United States Economy: 1900-1977. (Issued 1980. Working Paper No. 47.)

## Bureau of Labor Statistics

CPI Detailed Report. Monthly.

Consumer Prices: Energy and Food. Monthly.

Handbook of Labor Statistics. 1989.

Monthly Labor Review.

## Energy Information Administration

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  - County Business Patterns. Annual.
  - Current Industrial Reports. Monthly, quarterly, and annual series on various industries.
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- Commodity Yearbook. Annual.

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- Electronic Market Trends. Monthly.
- Electronics Foreign Trade. Monthly.
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- Motor Vehicle Facts and Figures. Annual.
- National Association of Hosiery Manufacturers, Charlotte, NC
- Hosiery Statistics. Annual.
- National Food Processors Association, Washington, DC
- Canned Fruit and Vegetable Pack and Stock Situation Reports. Quarterly.

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  - Lloyd's Register of Shipping, London, England
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    - Casualty Returns. Annual. (Statistical summary of all merchant ships totally lost or reported broken up during year.)

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- Merchant Shipbuilding Returns. Quarterly. (Statistical summary of world shipbuilding.)
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- Motor Vehicle Manufacturers Association of the United States, Inc., Detroit, MI
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- Annual Report.
- Regional Airline Association, Washington, DC
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- Monthly Vital Statistics Report. Provisional statistics. Annual summary also.
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- Series 20: Mortality Data. Irregular.
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- Characteristics of Clients Rehabilitated in Fiscal Year. Annual.

Wages and Wage Rates —*see* Labor; and Social Insurance.

Wealth —*see* National Income.

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Wholesale and Retail Trade —*see* Retail and Wholesale Trade.

Wholesale Prices —*see* Commodity Prices.

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Work Stoppages —*see* Labor.



# Guide to State Statistical Abstracts

This bibliography includes the most recent statistical abstracts for States and Puerto Rico published since 1980 plus those that will be issued in late 1990 or early 1991. For some States, a near equivalent has been listed in substitution for, or in addition to, a statistical abstract. All sources contain statistical tables on a variety of subjects for the State as a whole, its component parts, or both. The page counts given for publications are approximate.

## Alabama

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*Economic Abstract of Alabama*. 1989. 500 pp.

## Alaska

Department of Commerce and Economic Development, Division of Economic Development, Pouch D, Juneau 99811 907-465-2017 *The Alaska Economy Performance Report*. 1988-1989

## Arizona

University of Arizona, Division of Economic and Business Research, College of Business and Public Administration, Tucson 85721 602-621-2155 Fax 602-621-2150

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## Arkansas

University of Arkansas at Little Rock, Regional Economic Analysis, Library 512, Little Rock 72204

*Arkansas State and County Economic Data*. 18 pp. (Revised annually.)

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*Arkansas Statistical Abstract*. 500 pp. (Revised biennially.)

## California

Department of Finance, 915 L Street, 8th Floor, Sacramento 95814 916-322-2263

*California Statistical Abstract, 1991*. 230 pp.

Pacific Data Resources, P.O. Box 1911, Santa Barbara, CA 93116-9954 800-422-2546

*California Almanac, 5th ed.* Biennial. 645 pp.

## Colorado

University of Colorado, Business Research Division, Campus Box 420, Boulder 80309 303-4928227

*Statistical Abstract of Colorado, 1987*. 600 pp.

## Connecticut

Connecticut Department of Economic Development, 1990-1991 87 pp. No charge for single copy. 865 Brook St., Rocky Hill 06067-3405

*Connecticut Market Data*.

## Delaware

Delaware Development Office, 99 Kings Highway, P.O. Box 1401, Dover 19903 302-739-4271

*Delaware Data Book, 1990*. 146 pp.

## District of Columbia

Office of Planning, Data Management Division, Presidential Bldg., Suite 500, 415 12th St., N.W. Washington 20004 202-727-6533

*Population Estimates and Housing Units*, annual.

Office of Policy and Program Evaluation, Executive Office of the Mayor, District Building, Room 208, 1350 Pennsylvania Ave., N.W., Washington 20004 202-727-4016

*Indices—A Statistical Index to DC Services, 1990*. Annual. 422 pp.

## Florida

University of Florida, Bureau of Economic and Business Research, Gainesville 32611-2017 904-392-0171

*Florida Statistical Abstract, 1990*. 24th ed. 1990. 723 pp.

National Data Consultants, P.O. Box 6381, Athens, Georgia 30604 404-548-8460

*Florida County Perspectives: 1991*. Annual. 110 pp.

## Georgia

University of Georgia, Division of Research, College of Business Administration, Athens 30602 404-542-4085

*Georgia Statistical Abstract, 1988-89*. 1988. 512 pp.

University of Georgia, College of Agriculture, Cooperative Extension Service, Athens 30602 404-542-8940

*The Georgia County Guide*. 1991. 10th ed. Annual. 190 pp.

Office of Planning and Budget, 254 Washington St., S.W., Atlanta 30334-8501 404-656-0911

*Georgia Descriptions in Data*. 1989. 175 pp.

## Hawaii

Hawaii State Department of Business, and Economic Development & Tourism, P.O. Box 2359, Honolulu 96804. Inquiries 808-586-2482; Copies 808-586-2404

*The State of Hawaii Data Book 1990: A Statistical Abstract*. 24th ed. 1990. 667 pp.

**Idaho**

Department of Commerce, 700 West State St., Boise 83720 208-334-2470.

*County Economic Profiles, 1982.* (Separate report for each county.)

*County Profiles of Idaho, 1989.*

*Idaho Community Profiles, 1988.*

*Idaho Facts, 1989.*

*Idaho Facts Data Book, 1989.*

University of Idaho, Center for Business Development and Research, Moscow 83843 208-885-6611

*Idaho Statistical Abstract, 1980.* 415 pp. (Out of print.)

**Illinois**

University of Illinois, Bureau of Economic and Business Research, 428 Commerce West, 1206 South 6th Street, Champaign 61820 217-333-2330

*Illinois Statistical Abstract, 1990.* page 445.

Department of Commerce and Community Affairs, 620 Adams St., Springfield 62701 217-782-1438

*Illinois State and Regional Economic Data Book—1985* 351 pp.

**Indiana**

Indiana University, Indiana Business Research Center, School of Business, Indianapolis 46202-5151 317-274-2204

*Indiana Factbook, 1985.* 420 pp.

*Indiana Factbook, 1989.* 165 pp.

**Iowa**

Iowa Department of Economic Development Research Bureau, 200 East Grand Ave., Des Moines 50309

*1987 Statistical Profile of Iowa.* 116 pp. (Out of print.)

**Kansas**

University of Kansas, Institute for Public Policy and Business Research, 607 Blake Hall, Lawrence 66045-2960 913-864-3701

*Kansas Statistical Abstract, 1989-90.* 24th ed. 1989.

**Kentucky**

Department of Existing Business and Industry, Capital Plaza Office Tower, Frankfort 40601

*Kentucky Economic Statistics.* 26th ed. 1990.

**Louisiana**

University of New Orleans, Division of Business and Economic Research, New Orleans 70148 504-286-6248

*Statistical Abstract of Louisiana.* 8th ed. 1990.

**Maine**

Maine Department of Economic and Community Development, State House Station 59, Augusta 04333 207-289-2656

*Maine: A Statistical Summary.* (Updated periodically.)

**Maryland**

Department of Economic and Employment Development, 217 E. Redwood St., Baltimore 21202 Inquiries 301-333-6953; Copies 301-333-6955

*Maryland Statistical Abstract.* 1990-91. 274 pp. (Biennial.)

**Massachusetts**

Massachusetts Institute for Social and Economic Research, 128 Thompson Hall, University of Massachusetts at Amherst 01003 413-545-3460 FAX 413-545-3686

*Projections of the Population of Cities and Towns in Massachusetts to the Year 2000.* December 1990. 400 pp.

**Michigan**

Wayne State University, Bureau of Business Research, School of Business Administration, Detroit 48202

*Michigan Statistical Abstract.* 20th ed. 1986-87. 629 pp.

**Minnesota**

Department of Trade and Economic Development, Business Development and Analysis Division, 900 American Center Building, St. Paul 55101 612-296-8283

*Compare Minnesota: An Economic and Statistical Factbook, 1989-90.* 137 pp.

*Economic Report to the Governor: State of Minnesota, 1990.* 164 pp.

Office of State Demographer, State Planning Agency, 300 Centennial Bldg., St. Paul 55155 612-296-2557

*Minnesota Population and Household Estimates, 1988.* 74 pp.

**Mississippi**

Mississippi State University, College of Business and Industry, Division of Research, Mississippi State 39762 601-325-3817

*Mississippi Statistical Abstract.* 1989. 850 pp.

**Missouri**

University of Missouri, Business and Public Administration Research Center, Columbia 65211 314-882-4805

*Statistical Abstract for Missouri, 1989.* Biennial. 350 pp.

**Montana**

Montana Department of Commerce, Census and Economic Information Center, Capitol Station, Helena 59620 406-444-2896

*Montana County Profiles.* 5th ed. 1985. Supplement to 5th ed. 1989. (Separate county reports updated periodically, available in both paper and microfiche.)

**Nebraska**

Department of Economic Development, Division of Research, Box 94666, Lincoln 68509 402-471-3779

*Nebraska Statistical Handbook.* 1990-1991. 300 pp.

**Nevada**

Department of Administration, Planning Division,  
Capitol Complex, Carson City 89710 702-687-  
4065

*Nevada Statistical Abstract*. 1990. Biennial. 405  
pp.

**New Hampshire**

Office of State Planning, 2 1/2 Beacon St.,  
Concord 03301 603-271-2155

*Current Estimates and Trends in New Hamp-  
shire's Housing Supply*. Update: 1989. 22 pp.

*Selected Economic Characteristics of New  
Hampshire Municipalities*. September 1983.  
12 pp. (Other series available on population  
estimates and projections, and taxation.)

**New Jersey**

New Jersey State Data Center, NJ Department  
of Labor, CN 388, Trenton 08625-0388 609-  
984-2593

*New Jersey Statistical Factbook*, 1989. 115  
pp.

*Statistical Source Directory for New Jersey  
State Government*, 1989. 100 pp.

**New Mexico**

University of New Mexico, Bureau of Business  
and Economic Research, Albuquerque 87131  
505-277-2216

*New Mexico Statistical Abstract*. 1989. 215  
pp.

County Profiles. (Updated continuously.)

**New York**

Energy Association of New York, 111 Washing-  
ton Avenue, Suite 601, Albany 12210 518-449-  
3440

*New York at a Glance*, 1989-90. 230 pp.

Nelson Rockefeller Institute of Government, 411  
State Street, Albany 12203 518-472-1300

*New York State Statistical Yearbook*, 1991. 16th  
ed. 536 pp.

**North Carolina**

Office of State Budget and Management, Man-  
agement and Information Services Section,  
116 West Jones Street, Raleigh 27603-8005  
919-733-7061

*Statistical Abstract of North Carolina Coun-  
ties*, 1991. 6th edition.

**North Dakota**

University of North Dakota, Bureau of Business  
and Economic Research, Grand Forks 58202  
701-777-2637

*The Statistical Abstract of North Dakota*. 1988.  
700 pp.

Economic Development Commission, Liberty Memo-  
rial Bldg., Bismarck 58505 701-224-2810

*North Dakota Economic Data Book*. 1988.  
100 pp.

**Ohio**

Department of Development, Ohio Data Users  
Center (ODUC), P.O. Box 1001, Columbus  
43266-0101 614-466-2115

**Ohio —Con.**

*ODUC Products and Services*. (Updated con-  
tinuously.)

*Ohio County Profiles*.

The Ohio State University, School of Public  
Policy and Management, 1775 College Road,  
Columbus 43210-1399 614-292-8696

*Benchmark Ohio*, 1991. Biennial. 300 pp.

**Oklahoma**

University of Oklahoma, Center for Economic  
and Management Research, 307 West Brooks  
Street, Room 4, Norman 73019 405-325-2931

*Statistical Abstract of Oklahoma*, 1990. Annual.  
626 pp.

**Oregon**

Secretary of State, Room 136, State Capitol,  
Salem 97310

*Oregon Blue Book*. 1991-1992. Biennial. 488  
pp.

**Pennsylvania**

Pennsylvania State Data Center, Pennsylvania  
State University at Harrisburg, Middleton 15057,  
in cooperation with the Pennsylvania Depart-  
ment of Commerce

*Pennsylvania Statistical Abstract*, 1987. 29th  
ed. 1987. 262 pp.

**Rhode Island**

Department of Economic Development, 7 Jack-  
son Walkway, Providence 02903 401-277-2601

*Rhode Island Basic Economic Statistics*. 1990.  
145 pp.

**South Carolina**

Budget and Control Board, Division of Research  
and Statistical Services, R. C. Dennis Building,  
Room 425, Columbia 29201 803-734-3781

*South Carolina Statistical Abstract*: 1991. 390  
pp.

**South Dakota**

University of South Dakota, State Data Center,  
Vermillion 57069 605-677-5287

*Handbook of Manpower Statistics for South  
Dakota*. 294 pp.

*1990 South Dakota Community Abstracts*.  
400 pp.

**Tennessee**

University of Tennessee, Center for Business  
and Economic Research, Knoxville 37996-4170  
615-974-5441

*Tennessee Statistical Abstract*, 1991. 13th  
ed. 700 pp. (Annual.)

**Texas**

Dallas Morning News, Communications Center,  
P.O. Box 655237, Dallas 75265 214-977-8261

*Texas Almanac*, 1992-1993. 1991. 608 pp.

University of Texas, Bureau of Business Research,  
Austin 78712 512-471-5180

*Texas Fact Book*, 1989. 6th ed. 250 pp.

**Utah**

University of Utah, Bureau of Economic and Business Research, 401 Kendall D. Garff Building, Salt Lake City 84112 801-581-6333

*Statistical Abstract of Utah*. 1990. (Triennial.)

Utah Foundation, 10 West 100 South 323, Salt Lake City 84101 801-364-1837

*Statistical Review of Government in Utah*. 1991. 101 pp.

**Vermont**

Office of Policy Research and Coordination, Department of Employment and Training, Montpelier 05602 802-229-0311 ext. 323

Demographic and Economic Profiles. (Periodically issued.)

**Virginia**

University of Virginia, Center for Public Service, Dynamics Building, 4th Floor, 2015 Ivy Road, Charlottesville 22903 804-924-1022

*Virginia Statistical Abstract*, 1989. Biennial. 850 pp.

**Washington**

Washington State Office of Financial Management, Insurance Building M. S. AQ-44, Olympia 98504 206-753-1853

*Washington State Data Book*, 1989. 300 pp.

**West Virginia**

West Virginia Chamber of Commerce, P.O. Box 2789, Charleston 25330 304-342-1115

*West Virginia: Economic-Statistical Profile*, 1987-1988. Biennial. 750 pp.

**West Virginia —Con.**

West Virginia Research League, Inc., 405 Capitol Street, Suite 414, Charleston 25301 304-346-9451

*Economic Indicators*. 1988. 110 pp.

*The 1990 Statistical Handbook*. 86 pp.

**Wisconsin**

Wisconsin Legislative Reference Bureau, P.O. Box 2037, Madison 53701-2037 608-266-0341

*1989-1990 Wisconsin Blue Book*. 1,000 pp. Biennial.

**Wyoming**

Department of Administration and Fiscal Control, Division of Research and Statistics, 327 E. Emerson Building, Cheyenne 82002 307-777-7504

*Wyoming Data Handbook*, 1989. 200 pp.

**Puerto Rico**

Planning Board, Area of Economic and Social Planning, Bureau of Economic Analysis and Bureau of Statistics, Santurce 00940 809-722-2070

*Economic Report to the Governor*, 1990. (In Spanish.)

*Historic Series of Employment, Unemployment and Labor Force*, 1988. 98 pp. (In Spanish.)

*Social Statistics Abstract*, 1987. 258 pp. (In Spanish.)

*Socioeconomic Indicators by Municipios*, 1989. (In Spanish.)

# Guide to Foreign Statistical Abstracts

This bibliography presents recent statistical abstracts for Mexico, the Soviet Union, and member nations of the Organization for Economic Cooperation and Development. All sources contain statistical tables on a variety of subjects for the individual countries. Many of the following publications provide text in English as well as in the national language(s). For further information on these publications, contact the named statistical agency which is responsible for editing the publication.

## Austria

Osterreichisches Statistisches Zentralamt, P.O. Box 9000, A-1033 Vienna

*Statistisches Handbuch für die Republik Österreich.* Annual. 586 pp. (In German.)

## Australia

Australian Bureau of Statistics, Canberra

*Yearbook Australia.* Annual. 846 pp. (In English.)

## Belgium

Institut National de Statistique, 44 rue de Louvain, 1000 Brussels

*Annuaire statistique de la Belgique.* Annual. 783 pp. (In French and Dutch.)

## Canada

Statistics Canada, Ottawa, Ontario, KIA OT6

*Canada Yearbook: A review of economic, social and political developments in Canada.* 1990. Irregular. (In English and French.)

## Denmark

Danmarks Statistik, Postboks 2550 Sejrøgade 11, DK 2100, Copenhagen O

*Statistical Yearbook.* 1990. Annual. 541 pp. (In Danish with English translations of table headings.)

## Finland

Central Statistical Office of Finland, Box 504 SF-00101 Helsinki

*Statistical Yearbook of Finland.* Annual. 586 pp. (In English, Finnish, and Swedish.)

## France

Institut National de la Statistique et des Etudes Economiques, Paris 18, Bld. Adolphe Pinard, 75675 Paris (Cedex 14)

*Annuaire Statistique de la France.* Annual. 864 pp. (In French.)

## Greece

National Statistical Office, 14-16 Lycourgo St., 101-66 Athens

*Statistical Yearbook of Greece.* Annual. 240 pp. (plus 7 pages of diagrams). (In English and Greek.)

## Iceland

Hagstofa Islands/Statistical Bureau, Hverfisgata 8-10, Reykjavik.

*Statistical Abstract of Iceland.* 1984. Irregular. 286 pp. (In English and Icelandic.)

## Ireland

Central Statistics Office, Earlsfort Terrace, Dublin 2

*Statistical Abstract.* Annual. 406 pp. (In English.)

## Italy

ISTAT (Istituto Centrale di Statistica), Via Cesare Balbo 16, 00100 Rome

*Annuario Statistico Italiano.* Annual. 691 pp. (In Italian.)

## Japan

Statistics Bureau, Management & Coordination Agency, 19-1 Wakamatsucho, Shinjuku Tokyo 162

*Japan Statistical Yearbook.* Annual. 840 pp. (In English and Japanese.)

## Luxembourg

STATEC (Service Central de la Statistique et des Etudes), P.O. Box 304, L-2013, Luxembourg

*Annuaire Statistique.* Annual. 529 pp. (In French.)

## Mexico

Instituto Nacional de Estadística Geografía e Informática, Avda. Insurgentes Sur No. 795-PH Col. Napoles, Del. Benito Juárez 03810 Mexico, D.F.

*Anuario estadístico de los Estados Unidos Mexicanos.* Annual. 706 pp. (In Spanish.)

## Netherlands

Centraal Bureau voor de Statistiek, 428 Prinses Beatrixlaan P.O. Box 959, 2270 AZ Voorburg

*Statistical Yearbook of the Netherlands.* Annual. 491 pp. (In English.)

## New Zealand

Department of Statistics, Wellington

*New Zealand Official Yearbook.* Annual. 707 pp. (In English.)

## Norway

Central Bureau of Statistics, Skippergate 15, P.B. 8131 Dep. N-Oslo 1

*Statistical Yearbook.* Annual. 502 pp. (In English and Norwegian.)

## Portugal

INE (Instituto Nacional de Estatística), Avenida Antonio Jose de Almeida, P-1078 Lisbon Codex

*Anuario Estatístico: Continente, Açores e Madeira.* Annual. 336 pp. (In Portuguese.)

## Soviet Union

Central Statistical Board, Moscow

*Narodnoe Khoziaistvo SSSR: Statisticheskii ezhegodnik.* Annual. 767 pp. (In Russian.)

## Spain

INE (Instituto Nacional de Estadística), Paseo de la Castellana, 183, Madrid 16

*Anuario Estadístico de España.* Annual. 895 pp. (In Spanish.)

**Spain —Con.**

*Anuario Estadístico.* 1989. (Edición Manual.)  
976 pp.

**Sweden**

Statistics Sweden, S-11581 Stockholm

*Statistical Abstract of Sweden.* Annual. 561  
pp. (In English and Swedish.)

**Switzerland**

Bundesamt für Statistik, Hallwylstrasse 15, CH-3003,  
Bern

*Statistisches Jahrbuch der Schweiz.* Annual.  
400 pp. (In French and German.)

**Turkey**

State Institute of Statistics, Prime Ministry, 114  
Necatibey Caddesi, Bakanliklar, Yenisehir, Ankara

*Statistical Yearbook of Turkey.* Published on  
odd numbered years. 479 pp. (In English and  
Turkish.)

*Statistical Pocketbook of Turkey.* Published  
on even numbered years. 294 pp. (In English  
and Turkish.)

**United Kingdom**

Central Statistical Office, Great George Street,  
London SW1P 3AQ

*Annual Abstract of Statistics.* Annual. 349 pp.  
(In English.)

**West Germany**

Statistische Bundesamt, Postfach 5528, 6200  
Wiesbaden

*Statistisches Jahrbuch für die Bundesrepublik  
Deutschland.* Annual. 740 pp. (In German.)

**Yugoslavia**

Savezni Zavod za Statistiku, P.O. Box 203, 11000  
Belgrade

*Statistički Godisnjak Jugoslavije.* Annual. 784  
pp. (In Serbo-Croatian with English, French,  
and Russian translations of table headings.)

*Statistical Pocketbook of Yugoslavia.* 1989.  
212 pp. (In English.)



## Appendix II

# Metropolitan Area Concepts and Components

Statistics for metropolitan areas shown in the *Statistical Abstract* represent areas designated by the U.S. Office of Management and Budget (OMB) as standard metropolitan statistical areas (SMSA's) or metropolitan statistical areas (MSA's). Effective June 30, 1983, OMB changed the basic term from SMSA to MSA and revised the geographic definitions of many individual metropolitan areas; some new areas were defined, and some areas were redesignated as PMSA's or CMSA's (see further explanation below). The revised definitions appear in OMB press release 83-20 of June 27, 1983. The official standards for defining MSA's appeared in the Federal Register, January 3, 1980 (part 6). Revisions of MSA definitions are made periodically by OMB, mainly to add newly qualified MSA's or central cities.

The list of areas which follows (see p. 911) specifies components and population totals and refers to the definitions in effect on June 30, 1990. On that date, there were 268 MSA's, as well as 21 CMSA's comprising 73 PMSA's (including 4 MSA's, 1 CMSA, and 2 PMSA's in Puerto Rico).

The general concept of a metropolitan area is one of a large population nucleus, together with adjacent communities which have a high degree of economic and social integration with that nucleus. Standard definitions of metropolitan statistical areas were first issued in 1949 by the then Bureau of the Budget (predecessor of OMB), under the designation, "Standard Metropolitan Areas"; the term was changed to SMSA in 1959. From 1977 to 1981, the SMSA's were the responsibility of the Office of Federal Statistical Policy and Standards, Department of Commerce.

The criteria for the establishment and definition of SMSA's were modified in 1958, 1971, and 1975. The current standards were adopted in January 1980; they provide that each MSA must include at least:

- (a) One city with 50,000 or more inhabitants, or
- (b) A Census Bureau-defined urbanized area of at least 50,000 inhabitants *and* a total MSA population of at least 100,000 (75,000 in New England).

The standards provide that the MSA include as "central county(ies)" the county in which the central city is located, and adjacent counties, if any, with at least 50 percent of their population in the urbanized area. Additional "outlying counties" are included if they meet specified requirements of commuting to the central counties and of metropolitan character (such as population density and percent urban). In New England the MSA's are defined in terms of cities and towns rather than counties.

The 1980 standards provide that within metropolitan complexes of 1 million or more population, separate component areas are defined if specified criteria are met. Such areas are designated primary metropolitan statistical areas (PMSA's); and any area containing PMSA's is designated a consolidated metropolitan statistical area (CMSA). Besides the 21 CMSA's, as of 1990 there were 18 MSA's of 1 million or more within which no component PMSA's have been established. Of the 73 PMSA's, most were formerly SMSA's, but some were newly established in 1983.

Of the 21 CMSA's, most were previously recognized as standard consolidated statistical areas (SCSA's), but 5 were formerly SMSA's within which PMSA's were newly qualified in 1983.

The standards adopted in 1980 were implemented in two stages. First, they were used to define a group of 36 new areas in June 1981. The 323 SMSA's as of June 30, 1981 were reported in the 1980 census tabulations and publications. Next, the boundaries of all SMSA's were reviewed in 1982-83 under the new standards after 1980 commuting data became available.

Revised 1980 standards for determining central cities and titles were implemented as part of the 1982-83 review. The largest city in each MSA is designated a "central city"; in addition there may be additional central cities if specified requirements are met. The title of each MSA consists of the name(s) of up to three of its central cities and the name of each State into which the MSA extends. However, a central city generally is not included in an MSA title unless it has at least one-third the population of the area's largest city. Prior to 1983, virtually all central cities appeared in the area titles. An MSA may include other cities of 50,000 or more besides its central or title cities.

One report relating to the revised 1980 MSA definitions has been published as *1980 Census of Population, Supplementary Report, Metropolitan Statistical Areas* (PC80-S1-18). The *State and Metropolitan Area Data Book, 1991* presents many data items for metropolitan areas from a wide variety of sources (see inside back cover).

Standards for defining metropolitan areas after the 1990 census were issued by OMB in March 1990, revising the 1980 standards in a few respects. Effective in April 1990, the areas are collectively termed "metropolitan areas", although each individual area will continue to be designated an MSA, CMSA, or PMSA.

**New England MSA's and NECMA's.**—Because MSA's in New England are defined in terms of cities and towns rather than counties, some statistical data that are available only for counties cannot be compiled for individual New England MSA's. Therefore, for New England areas, data are shown for both New England County Metropolitan Areas (NECMA's) and MSA's wherever possible. The NECMA's provide a county version of the New England areas, but do not replace New England MSA's as the standard areas. NECMA's are defined corresponding to the 3 CMSA's in New England and for the portion of the New York-Northern New Jersey-Long Island CMSA in Connecticut. There are no NECMA definitions corresponding to New England PMSA's.

**Effect of changes in MSA definitions.**—Changes in the definitions of MSA's since 1949 have consisted chiefly of (1) the recognition of new areas as, for example, cities reached 50,000 population; and (2) the addition of counties (or towns in New England) to existing MSA's as new census data showed them to qualify. Also, several formerly separate MSA's have been merged, and occasionally territory has been transferred from one MSA to another or from an MSA to nonmetropolitan territory. Comparisons of MSA figures over time may be affected in cases where the MSA definitions were changed. To maintain comparability, data for an earlier period have been revised in this volume where possible, to reflect the MSA boundaries of the more recent period. However, this could not always be done; for data based on a sample survey, in particular, it is usually not possible to revise the data to reflect changes in MSA definitions that occurred after the survey was made.

### New England County Metropolitan Areas (NECMA'S)

[In thousands. As of April 1]

NECMA	Population, 1990	NECMA	Population, 1990	NECMA	Population, 1990
<b>Bangor, ME</b> . . . . .	147	Tolland County . . . . .	129	Cumberland County . . . . .	243
Penobscot County . . . . .	147				
<b>Boston-Lawrence-Salem-Lowell-Brockton, MA</b> . . . . .	3,784	<b>Lewiston-Auburn, ME</b> . . . . .	105	<b>Portsmouth-Dover-Rochester, NH</b> . . . . .	350
Essex County . . . . .	670	Androscoggin County . . . . .	105	Rockingham County . . . . .	246
Middlesex County . . . . .	1,398	<b>Manchester-Nashua, NH</b> . . . . .	336	Strafford County . . . . .	104
Norfolk County . . . . .	616	Hillsborough County . . . . .	336		
Plymouth County . . . . .	435	<b>New Bedford-Fall River-Attleboro, MA</b> . . . . .	506	<b>Providence-Pawtucket-Woonsocket, RI</b> . . . . .	918
Suffolk County . . . . .	664	Bristol County . . . . .	506	Bristol County . . . . .	49
				Kent County . . . . .	161
<b>Bridgeport-Stamford-Norwalk-Danbury, CT</b> . . . . .	828	<b>New Haven-Waterbury-Meriden, CT</b> . . . . .	804	Providence County . . . . .	596
Fairfield County . . . . .	828	New Haven County . . . . .	804	Washington County . . . . .	110
<b>Burlington, VT</b> . . . . .	137	<b>New London-Norwich, CT</b> . . . . .	255	<b>Springfield, MA</b> . . . . .	603
Chittenden County . . . . .	132	New London County . . . . .	255	Hampden County . . . . .	456
Grand Isle County . . . . .	5			Hampshire County . . . . .	147
<b>Hartford-New Britain-Middletown-Bristol, CT</b> . . . . .	1,124	<b>Pittsfield, MA</b> . . . . .	139	<b>Worcester-Fitchburg-Leominster, MA</b> . . . . .	710
Hartford County . . . . .	852	Berkshire County . . . . .	139	Worcester County . . . . .	710
Middlesex County . . . . .	143	<b>Portland, ME</b> . . . . .	243		

Source: U.S. Bureau of the Census, unpublished data.



# Metropolitan Areas and Their Components as of June 30, 1990

[Population enumerated as of April 1, 1990. All metropolitan areas are arranged alphabetically.  
For relationship of PMSA's to their CMSA's, see CMSA entry]

	1990 Popu- lation (1,000)		1990 Popu- lation (1,000)		1990 Popu- lation (1,000)
<b>Abilene, TX MSA</b> .....	120	<b>Asheville, NC MSA</b> .....	175	<b>Baton Rouge, LA MSA</b> .....	528
Taylor County .....	120	Buncombe County .....	175	Ascension Parish .....	58
<b>Akron, OH PMSA</b> .....	658	<b>Athens, GA MSA</b> .....	156	East Baton Rouge Parish .....	380
Portage County .....	143	Clarke County .....	88	Livingston Parish .....	71
Summit County .....	515	Jackson County .....	30	West Baton Rouge Parish .....	19
<b>Albany, GA MSA</b> .....	113	Madison County .....	21	<b>Battle Creek, MI MSA</b> .....	136
Dougherty County .....	96	Oconee County .....	18	Calhoun County .....	136
Lee County .....	16	<b>Atlanta, GA MSA</b> .....	2,834	<b>Beaumont-Port Arthur, TX</b>	
<b>Albany-Schenectady-Troy,</b>		Barrow County .....	30	<b>MSA</b> .....	361
<b>NY MSA</b> .....	874	Butts County .....	15	Hardin County .....	41
Albany County .....	293	Cherokee County .....	90	Jefferson County .....	239
Greene County .....	45	Clayton County .....	182	Orange County .....	81
Montgomery County .....	52	Cobb County .....	448	<b>Beaver County, PA PMSA</b> .....	186
Rensselaer County .....	154	Coweta County .....	54	Beaver County .....	186
Saratoga County .....	181	De Kalb County .....	546	<b>Bellingham, WA MSA</b> .....	128
Schenectady County .....	149	Douglas County .....	71	Whatcom County .....	128
<b>Albuquerque, NM MSA</b> .....	481	Fayette County .....	62	<b>Benton Harbor, MI MSA</b> .....	161
Bernalillo County .....	481	Forsyth County .....	44	Barren County .....	161
<b>Alexandria, LA MSA</b> .....	132	Fulton County .....	649	<b>Bergen-Passaic, NJ PMSA</b> .....	1,278
Rapides Parish .....	132	Gwinnett County .....	353	Bergen County .....	825
<b>Allentown-Bethlehem-</b>		Henry County .....	59	Passaic County .....	453
<b>Easton, PA-NJ MSA</b> .....	687	Newton County .....	42	<b>Billings, MT MSA</b> .....	113
Carbon County, PA .....	57	Paulding County .....	42	Yellowstone County .....	113
Lehigh County, PA .....	291	Rockdale County .....	54	<b>Biloxi-Gulfport, MS MSA</b> .....	197
Northampton County, PA .....	247	Spalding County .....	54	Hancock County .....	32
Warren County, NJ .....	82	Walton County .....	39	Harrison County .....	165
<b>Altoona, PA MSA</b> .....	131	<b>Atlantic City, NJ MSA</b> .....	319	<b>Binghamton, NY MSA</b> .....	264
Blair County .....	131	Atlantic County .....	224	Broome County .....	212
<b>Amarillo, TX MSA</b> .....	188	Cape May County .....	95	Tioga County .....	52
Potter County .....	98	<b>Augusta, GA-SC MSA</b> .....	397	<b>Birmingham, AL MSA</b> .....	908
Randall County .....	80	Columbia County, GA .....	66	Blount County .....	39
<b>Anaheim-Santa Ana, CA</b>		McDuffie County, GA .....	20	Jefferson County .....	652
<b>PMSA</b> .....	2,411	Richmond County, GA .....	190	St. Clair County .....	50
Orange County .....	2,411	Aiken County, SC .....	121	Shelby County .....	99
<b>Anchorage, AK MSA</b> .....	226	<b>Aurora-Elgin, IL PMSA</b> .....	357	Walker County .....	68
Anchorage Borough .....	226	Kane County .....	317	<b>Bismarck, ND MSA</b> .....	84
<b>Anderson, IN MSA</b> .....	131	Kendall County .....	39	Burleigh County .....	60
Madison County .....	131	<b>Austin, TX MSA</b> .....	782	Morton County .....	24
<b>Anderson, SC MSA</b> .....	145	Hays County .....	66	<b>Bloomington, IN MSA</b> .....	109
Anderson County .....	145	Travis County .....	578	Monroe County .....	109
<b>Ann Arbor, MI PMSA</b> .....	283	Williamson County .....	140	<b>Bloomington-Normal, IL</b>	
Washtenaw County .....	283	<b>Bakersfield, CA MSA</b> .....	543	<b>MSA</b> .....	129
<b>Anneton, AL MSA</b> .....	116	Kern County .....	543	McLean County .....	129
Calhoun County .....	116	<b>Baltimore, MD MSA</b> .....	2,382	<b>Boise City, ID MSA</b> .....	206
<b>Appleton-Oshkosh-Neenah,</b>		Anne Arundel County .....	427	Ada County .....	206
<b>WI MSA</b> .....	315	Baltimore County .....	692	<b>Boston, MA PMSA</b> .....	2,871
Calumet County .....	34	Carroll County .....	123	Bristol County (pt.) .....	41
Outagamie County .....	141	Harford County .....	182	Essex County (pt.) .....	122
Winnebago County .....	140	Howard County .....	187	Middlesex County (pt.) .....	1,132
		Queen Anne's County .....	34		
		Baltimore city .....	738		
		<b>Bangor, ME MSA</b> .....	89		
		Penobscot County (pt.) .....	86		
		Waldo County (pt.) .....	3		

	1990 Popu- lation (1,000)		1990 Popu- lation (1,000)		1990 Popu- lation (1,000)
Norfolk County (pt.)	605	<b>Charlotte-Gastonia-Rock Hill, NC-SC MSA</b>	1,162	<b>Columbus, GA-AL MSA</b>	243
Plymouth County (pt.)	237	Cabarrus County, NC	99	Chattahoochee County, GA	17
Suffolk County	664	Gaston County, NC	175	Muscogee County, GA	179
Worcester County (pt.)	71	Lincoln County, NC	50	Russell County, AL	47
<b>Boston-Lawrence-Salem, MA-NH CMSA</b>	4,172	Mecklenburg County, NC	511	<b>Columbus, OH MSA</b>	1,377
Boston, MA PMSA	2,871	Rowan County, NC	111	Delaware County	67
Brockton, MA PMSA	189	Union County, NC	84	Fairfield County	103
Lawrence-Haverhill, MA-NH PMSA	394	York County, SC	131	Franklin County	961
Lowell, MA-NH PMSA	273	<b>Charlottesville, VA MSA</b>	131	Licking County	128
Nashua, NH PMSA	181	Albemarle County	68	Madison County	37
Salem-Gloucester, MA PMSA	264	Fluvanna County	12	Pickaway County	48
<b>Boulder-Longmont, CO PMSA</b>	225	Greene County	10	Union County	32
Boulder County	225	Charlottesville city	40	<b>Corpus Christi, TX MSA</b>	350
<b>Bradenton, FL MSA</b>	212	<b>Chattanooga, TN-GA MSA</b>	433	Nueces County	291
Manatee County	212	Hamilton County, TN	286	San Patricio County	59
<b>Brazoria, TX PMSA</b>	192	Marion County, TN	25	<b>Cumberland, MD-WV MSA</b>	102
Brazoria County	192	Sequatchie County, TN	9	Allegany County, MD	75
<b>Bremerton, WA MSA</b>	190	Calhoun County, GA	42	Mineral County, WV	27
Kitsap County	190	Dade County, GA	13	<b>Dallas, TX PMSA</b>	2,553
<b>Bridgeport-Milford, CT PMSA</b>	444	Walker County, GA	58	Collin County	264
Fairfield County (pt.)	335	<b>Cheyenne, WY MSA</b>	73	Dallas County	1,853
New Haven County (pt.)	109	Laramie County	73	Denton County	274
<b>Bristol, CT PMSA</b>	79	<b>Chicago, IL PMSA</b>	6,070	Ellis County	85
Hartford County (pt.)	68	Cook County	5,105	Kaufman County	52
Litchfield County (pt.)	12	Du Page County	782	Rockwall County	26
<b>Brockton, MA PMSA</b>	189	McHenry County	183	<b>Dallas-Fort Worth, TX CMSA</b>	3,885
Bristol County (pt.)	20	<b>Chicago-Gary-Lake County (IL), IL-IN-WI CMSA</b>	8,066	Dallas, TX PMSA	2,553
Norfolk County (pt.)	5	Aurora-Elgin, IL PMSA	357	Fort Worth-Arlington, TX PMSA	1,332
Plymouth County (pt.)	165	Chicago, IL PMSA	6,070	<b>Danbury, CT PMSA</b>	188
<b>Brownsville-Harlingen, TX MSA</b>	260	Gary-Hammond, IN PMSA	605	Fairfield County (pt.)	163
Cameron County	260	Joliet, IL PMSA	390	Litchfield County (pt.)	25
<b>Bryan-College Station, TX MSA</b>	122	Kenosha, WI PMSA	128	<b>Danville, VA MSA</b>	109
Brazos County	122	Lake County, IL PMSA	516	Pittsylvania County	56
<b>Buffalo, NY PMSA</b>	969	<b>Chico, CA MSA</b>	182	Danville city	53
Erie County	969	Butte County	182	<b>Davenport-Rock Island-Moline, IA-IL MSA</b>	351
<b>Buffalo-Niagara Falls, NY CMSA</b>	1,189	<b>Cincinnati, OH-KY-IN PMSA</b>	1,453	Scott County, IA	151
Buffalo, NY PMSA	969	Clermont County, OH	150	Henry County, IL	51
Niagara Falls, NY PMSA	221	Hamilton County, OH	866	Rock Island County, IL	149
<b>Burlington, NC MSA</b>	108	Warren County, OH	114	<b>Dayton-Springfield, OH MSA</b>	951
Alamance County	108	Boone County, KY	58	Clark County	148
<b>Burlington, VT MSA</b>	131	Campbell County, KY	84	Greene County	137
Chittenden County (pt.)	125	Kenton County, KY	142	Miami County	93
Franklin County (pt.)	4	Dearborn County, IN	39	Montgomery County	574
Grand Isle County (pt.)	3	<b>Cincinnati-Hamilton, OH-KY-IN CMSA</b>	1,744	<b>Daytona Beach, FL MSA</b>	371
<b>Canton, OH MSA</b>	394	Cincinnati, OH-KY-IN PMSA	1,453	Volusia County	371
Carroll County	27	Hamilton-Middletown, OH PMSA	291	<b>Decatur, AL MSA</b>	132
Stark County	368	<b>Clarksville-Hopkinsville, TN-KY MSA</b>	169	Lawrence County	32
<b>Casper, WY MSA</b>	61	Montgomery County, TN	100	Morgan County	100
Natrona County	61	Christian County, KY	69	<b>Decatur, IL MSA</b>	117
<b>Cedar Rapids, IA MSA</b>	169	<b>Cleveland, OH PMSA</b>	1,831	Macon County	117
Linn County	169	Cuyahoga County	1,412	<b>Denver, CO PMSA</b>	1,623
<b>Champaign-Urbana-Rantoul, IL MSA</b>	173	Geauga County	81	Adams County	265
Champaign County	173	Lake County	215	Arapahoe County	392
<b>Charleston, SC MSA</b>	507	Medina County	122	Denver County	468
Berkeley County	129	<b>Cleveland-Akron-Lorain, OH CMSA</b>	2,760	Douglas County	60
Charleston County	295	Akron, OH PMSA	658	Jefferson County	438
Dorchester County	83	Cleveland, OH PMSA	1,831	<b>Denver-Boulder, CO CMSA</b>	1,848
<b>Charleston, WV MSA</b>	250	Lorain-Elyria, OH PMSA	271	Boulder-Longmont, CO PMSA	225
Kanawha County	208	<b>Colorado Springs, CO MSA</b>	397	Denver, CO PMSA	1,623
Putnam County	43	El Paso County	397	<b>Des Moines, IA MSA</b>	393
		<b>Columbia, MO MSA</b>	112	Dallas County	30
		Boone County	112	Polk County	327
		<b>Columbia, SC MSA</b>	453	Warren County	36
		Lexington County	168	<b>Detroit, MI PMSA</b>	4,382
		Richland County	286	Lapeer County	75
				Livingston County	116
				Macomb County	717

	1990 Population (1,000)		1990 Population (1,000)		1990 Population (1,000)
Monroe County . . . . .	134	Fort Myers-Cape Coral, FL		Harriessburg-Lebanon-	
Oakland County . . . . .	1,084	MSA . . . . .	335	Carlisle, PA MSA . . . . .	588
St. Clair County . . . . .	146	Lee County . . . . .	335	Cumberland County . . . . .	195
Wayne County . . . . .	2,112	Fort Pierce, FL MSA . . . . .	251	Dauphin County . . . . .	238
Detroit-Ann Arbor, MI CMSA .	4,665	Martin County . . . . .	101	Lebanon County . . . . .	114
Ann Arbor, MI PMSA . . . . .	283	St. Lucie County . . . . .	150	Perry County . . . . .	41
Detroit, MI PMSA . . . . .	4,382	Fort Smith, AR-OK MSA . . . . .	176	Hartford, CT PMSA . . . . .	768
Dothan, AL MSA . . . . .	131	Crawford County, AR . . . . .	42	Hartford County (pt.) . . . . .	634
Dale County . . . . .	50	Sebastian County, AR . . . . .	100	Litchfield County (pt.) . . . . .	9
Houston County . . . . .	81	Sequoyah County, OK . . . . .	34	Middlesex County (pt.) . . . . .	7
Dubuque, IA MSA . . . . .	86	Fort Walton Beach, FL MSA .	144	New London County (pt.) . . . . .	11
Dubuque County . . . . .	86	Okaloosa County . . . . .	144	Tolland County (pt.) . . . . .	107
Duluth, MN-WI MSA . . . . .	240	Fort Wayne, IN MSA . . . . .	364	Hartford-New Britain-	
St. Louis County, MN . . . . .	198	Allen County . . . . .	301	Middletown, CT CMSA . . . . .	1,086
Douglas County, WI . . . . .	42	De Kalb County . . . . .	35	Bristol, CT PMSA . . . . .	79
Eau Claire, WI MSA . . . . .	138	Whitley County . . . . .	28	Hartford, CT PMSA . . . . .	768
Chippewa County . . . . .	52	Fort Worth-Arlington, TX		Middletown, CT PMSA . . . . .	90
Eau Claire County . . . . .	85	PMSA . . . . .	1,332	New Britain, CT PMSA . . . . .	148
El Paso, TX MSA . . . . .	592	Johnson County . . . . .	97	Hickory-Morganton, NC MSA .	222
El Paso County . . . . .	592	Parker County . . . . .	65	Alexander County . . . . .	28
Elkhart-Goshen, IN MSA . . .	156	Tarrant County . . . . .	1,170	Burke County . . . . .	76
Elkhart County . . . . .	156	Fresno, CA MSA . . . . .	667	Catawba County . . . . .	119
Fresno County . . . . .	667	Gadsden, AL MSA . . . . .	100	Honolulu, HI MSA . . . . .	836
Etowah County . . . . .	100	Etowah County . . . . .	100	Honolulu County . . . . .	836
Gainesville, FL MSA . . . . .	204	Gainesville, FL MSA . . . . .	204	Houma-Thibodaux, LA MSA .	183
Alachua County . . . . .	182	Alachua County . . . . .	182	Lafourche Parish . . . . .	86
Bradford County . . . . .	23	Bradford County . . . . .	23	Terrebonne Parish . . . . .	97
Galveston-Texas City, TX		Galveston-Texas City, TX		Houston, TX PMSA . . . . .	3,302
PMSA . . . . .	217	Galveston County . . . . .	217	Fort Bend County . . . . .	225
Galveston County . . . . .	217	Gary-Hammond, IN PMSA . . .	605	Harris County . . . . .	2,818
Gary-Hammond, IN PMSA . . .	605	Lake County . . . . .	476	Liberty County . . . . .	53
Lake County . . . . .	476	Porter County . . . . .	129	Montgomery County . . . . .	182
Porter County . . . . .	129	Glens Falls, NY MSA . . . . .	119	Waller County . . . . .	23
Glens Falls, NY MSA . . . . .	119	Warren County . . . . .	59	Houston-Galveston-	
Washington County . . . . .	59	Washington County . . . . .	59	Brazoria, TX CMSA . . . . .	3,711
Grand Forks, ND MSA . . . . .	71	Grand Forks, ND MSA . . . . .	71	Brazoria, TX PMSA . . . . .	192
Grand Forks County . . . . .	71	Grand Forks County . . . . .	71	Galveston-Texas City, TX	
Grand Rapids, MI MSA . . . . .	688	Grand Rapids, MI MSA . . . . .	688	PMSA . . . . .	217
Kent County . . . . .	501	Kent County . . . . .	501	Houston, TX PMSA . . . . .	3,302
Ottawa County . . . . .	188	Ottawa County . . . . .	188	Huntington-Ashland,	
Great Falls, MT MSA . . . . .	78	Great Falls, MT MSA . . . . .	78	WV-KY-OH MSA . . . . .	313
Cascade County . . . . .	78	Cascade County . . . . .	78	Cabell County, WV . . . . .	97
Greeley, CO MSA . . . . .	132	Greeley, CO MSA . . . . .	132	Wayne County, WV . . . . .	42
Weld County . . . . .	132	Weld County . . . . .	132	Boyd County, KY . . . . .	51
Green Bay, WI MSA . . . . .	195	Green Bay, WI MSA . . . . .	195	Carter County, KY . . . . .	24
Brown County . . . . .	195	Brown County . . . . .	195	Greenup County, K . . . . .	37
Greensboro-Winston-		Greensboro-Winston-		Lawrence County, OH . . . . .	62
Salem-High Point,		Salem-High Point,		Huntsville, AL MSA . . . . .	239
NC MSA . . . . .	942	NC MSA . . . . .	942	Madison County . . . . .	239
Davidson County . . . . .	127	Davidson County . . . . .	127	Indianapolis, IN MSA . . . . .	1,250
Davie County . . . . .	28	Davie County . . . . .	28	Boone County . . . . .	38
Forsyth County . . . . .	266	Forsyth County . . . . .	266	Hamilton County . . . . .	109
Guilford County . . . . .	347	Guilford County . . . . .	347	Hancock County . . . . .	46
Randolph County . . . . .	107	Randolph County . . . . .	107	Hendricks County . . . . .	76
Stokes County . . . . .	37	Stokes County . . . . .	37	Johnson County . . . . .	88
Yadkin County . . . . .	30	Yadkin County . . . . .	30	Marion County . . . . .	797
Greenville-Spartanburg, SC		Greenville-Spartanburg, SC		Morgan County . . . . .	56
MSA . . . . .	641	MSA . . . . .	641	Shelby County . . . . .	40
Greenville County . . . . .	320	Greenville County . . . . .	320	Iowa City, IA MSA . . . . .	96
Pickens County . . . . .	94	Pickens County . . . . .	94	Johnson County . . . . .	96
Spartanburg County . . . . .	227	Spartanburg County . . . . .	227	Jackson, MI MSA . . . . .	150
Hagerstown, MD MSA . . . . .	121	Hagerstown, MD MSA . . . . .	121	Jackson County . . . . .	150
Washington County . . . . .	121	Washington County . . . . .	121	Jackson, MS MSA . . . . .	395
Hamilton-Middletown, OH		Hamilton-Middletown, OH		Hinds County . . . . .	254
PMSA . . . . .	291	PMSA . . . . .	291	Madison County . . . . .	54
Butler County . . . . .	291	Butler County . . . . .	291	Rankin County . . . . .	87
				Jackson, TN MSA . . . . .	78
				Madison County . . . . .	78
				Jacksonville, FL MSA . . . . .	907
				Clay County . . . . .	106
				Duval County . . . . .	673
				Nassau County . . . . .	44
				St. Johns County . . . . .	84

	1990 Popu- lation (1,000)		1990 Popu- lation (1,000)		1990 Popu- lation (1,000)
<b>Jacksonville, NC MSA</b> . . . . .	150	<b>Lakeland-Winter Haven, FL</b>		<b>Lowell, MA-NH PMSA</b> . . . . .	273
Onslow County . . . . .	150	<b>MSA</b> . . . . .	405	Middlesex County, MA (pt.) . . . . .	264
<b>Jamestown-Dunkirk, NY MSA</b> . . . . .	142	Polk County . . . . .	405	Hillsborough County, NH (pt.) . . . . .	9
Chautauqua County . . . . .	142	<b>Lancaster, PA MSA</b> . . . . .	423	<b>Lubbock, TX MSA</b> . . . . .	223
<b>Janeville-Beloit, WI MSA</b> . . . . .	140	Lancaster County . . . . .	423	Lubbock County . . . . .	223
Rock County . . . . .	140	<b>Lansing-East Lansing, MI</b>		<b>Lynchburg, VA MSA</b> . . . . .	142
<b>Jersey City, NJ PMSA</b> . . . . .	553	<b>MSA</b> . . . . .	433	Amherst County . . . . .	29
Hudson County . . . . .	553	Clinton County . . . . .	58	Campbell County . . . . .	48
<b>Johnson City-Kingsport-</b>		Eaton County . . . . .	93	Lynchburg city . . . . .	66
<b>Bristol, TN-VA MSA</b> . . . . .	436	Ingham County . . . . .	282	<b>Macon-Warner Robins, GA MSA</b>	281
Carter County, TN . . . . .	52	<b>Laredo, TX MSA</b> . . . . .	133	Bibb County . . . . .	150
Hawkins County, TN . . . . .	45	Webb County . . . . .	133	Houston County . . . . .	89
Sullivan County, TN . . . . .	144	<b>Las Cruces, NM MSA</b> . . . . .	136	Jones County . . . . .	21
Union County, TN . . . . .	17	Dona Ana County . . . . .	136	Peach County . . . . .	21
Washington County, TN . . . . .	92	<b>Las Vegas, NV MSA</b> . . . . .	741	<b>Madison, WI MSA</b> . . . . .	367
Scott County, VA . . . . .	23	Clark County . . . . .	741	Dane County . . . . .	367
Washington County, VA . . . . .	46	<b>Lawrence, KS MSA</b> . . . . .	82	<b>Manchester, NH MSA</b> . . . . .	148
Bristol city, VA . . . . .	18	Douglas County . . . . .	82	Hillsborough County (pt.) . . . . .	127
<b>Johnstown, PA MSA</b> . . . . .	241	<b>Lawrence-Haverhill, MA-</b>		Merrimack County (pt.) . . . . .	13
Cambria County . . . . .	163	<b>NH PMSA</b> . . . . .	394	Rockingham County (pt.) . . . . .	8
Somerset County . . . . .	78	Essex County, MA (pt.) . . . . .	284	<b>Mansfield, OH MSA</b> . . . . .	126
<b>Joliet, IL PMSA</b> . . . . .	390	Rockingham County, NH	110	Richland County . . . . .	126
Grundy County . . . . .	32	(pt.) . . . . .	110	<b>McAllen-Edinburg-Mission,</b>	
Will County . . . . .	357	<b>Lawton, OK MSA</b> . . . . .	111	<b>TX MSA</b> . . . . .	384
<b>Joplin, MO MSA</b> . . . . .	135	Comanche County . . . . .	111	Hidalgo County . . . . .	384
Jasper County . . . . .	90	<b>Lewiston-Auburn, ME MSA</b>	88	<b>Medford, OR MSA</b> . . . . .	146
Newton County . . . . .	44	Androscoggin County (pt.) . . . . .	88	Jackson County . . . . .	146
<b>Kalamazoo, MI MSA</b> . . . . .	223	<b>Lexington-Fayette, KY MSA</b>	348	<b>Melbourne-Titusville-Palm</b>	
Kalamazoo County . . . . .	223	Bourbon County . . . . .	19	<b>Bay, FL MSA</b> . . . . .	399
<b>Kankakee, IL MSA</b> . . . . .	96	Clark County . . . . .	29	Brevard County . . . . .	399
Kankakee County . . . . .	96	Fayette County . . . . .	225	<b>Memphis, TN-AR-MS MSA</b> . . . . .	982
<b>Kansas City, MO-KS MSA</b> . . . . .	1,566	Jessamine County . . . . .	31	Shelby County, TN . . . . .	826
Cass County, MO . . . . .	64	Scott County . . . . .	24	Tipton County, TN . . . . .	38
Clay County, MO . . . . .	153	Woodford County . . . . .	20	Crittenden County, AR . . . . .	50
Jackson County, MO . . . . .	633	<b>Lima, OH MSA</b> . . . . .	154	De Soto County, MS . . . . .	68
Lafayette County, MO . . . . .	31	Allen County . . . . .	110	<b>Merced, CA MSA</b> . . . . .	178
Platte County, MO . . . . .	58	Auglaize County . . . . .	45	Merced County . . . . .	178
Ray County, MO . . . . .	22	<b>Lincoln, NE MSA</b> . . . . .	214	<b>Miami-Fort Lauderdale, FL</b>	
Johnson County, KS . . . . .	355	Lancaster County . . . . .	214	<b>CMSA</b> . . . . .	3,193
Leavenworth County, KS . . . . .	64	<b>Little Rock-North Little</b>		Fort Lauderdale-Hollywood-	
Miami County, KS . . . . .	23	<b>Rock, AR MSA</b> . . . . .	513	Pompano Beach, FL PMSA . . . . .	1,255
Wyandotte County, KS . . . . .	162	Faulkner County . . . . .	60	Miami-Hialeah, FL PMSA . . . . .	1,937
<b>Kenosha, WI PMSA</b> . . . . .	128	Lonoke County . . . . .	39	<b>Miami-Hialeah, FL PMSA</b> . . . . .	1,937
Kenosha County . . . . .	128	Pulaski County . . . . .	350	Dade County . . . . .	1,937
<b>Killeen-Temple, TX MSA</b> . . . . .	255	Saline County . . . . .	64	<b>Middlesex-Somerset-</b>	
Bell County . . . . .	191	<b>Longview-Marshall, TX MSA</b>	162	<b>Hunterdon, NJ PMSA</b> . . . . .	1,020
Coryell County . . . . .	64	Gregg County . . . . .	105	Hunterdon County . . . . .	108
<b>Knoxville, TN MSA</b> . . . . .	605	Harrison County . . . . .	57	Middlesex County . . . . .	672
Anderson County . . . . .	68	<b>Lorain-Elyria, OH PMSA</b> . . . . .	271	Somerset County . . . . .	240
Blount County . . . . .	86	Lorain County . . . . .	271	<b>Middletown, CT PMSA</b> . . . . .	90
Grainger County . . . . .	17	<b>Los Angeles-Anaheim-</b>		Middlesex County (pt.) . . . . .	90
Jefferson County . . . . .	33	<b>Riverside, CA CMSA</b> . . . . .	14,532	<b>Midland, TX MSA</b> . . . . .	107
Knox County . . . . .	336	Anaheim-Santa Ana, CA		Midland County . . . . .	107
Sevier County . . . . .	51	PMSA . . . . .	2,411	<b>Milwaukee, WI PMSA</b> . . . . .	1,432
Union County . . . . .	14	Los Angeles-Long Beach,		Milwaukee County . . . . .	959
<b>Kokomo, IN MSA</b> . . . . .	97	CA PMSA . . . . .	8,863	Ozaukee County . . . . .	73
Howard County . . . . .	81	Oxnard-Ventura, CA PMSA . . . . .	669	Washington County . . . . .	95
Tipton County . . . . .	16	Riverside-San Bernardino,		Waukesha County . . . . .	305
<b>La Crosse, WI MSA</b> . . . . .	98	CA PMSA . . . . .	2,589	<b>Milwaukee-Racine, WI CMSA</b>	1,607
La Crosse County . . . . .	98	<b>Los Angeles-Long Beach,</b>		Milwaukee, WI PMSA . . . . .	1,432
<b>Lafayette, LA MSA</b> . . . . .	209	<b>CA PMSA</b> . . . . .	8,863	Racine, WI PMSA . . . . .	175
Lafayette Parish . . . . .	165	<b>Louisville, KY-IN MSA</b> . . . . .	953	<b>Minneapolis-St. Paul,</b>	
St. Martin Parish . . . . .	44	Bullitt County, KY . . . . .	48	<b>MN-WI MSA</b> . . . . .	2,464
<b>Lafayette-West Lafayette,</b>		Jefferson County, KY . . . . .	665	Anoka County, MN . . . . .	244
<b>IN MSA</b> . . . . .	131	Oldham County, KY . . . . .	33	Carver County, MN . . . . .	48
Tiptecanoe County . . . . .	131	Shelby County, KY . . . . .	25	Chisago County, MN . . . . .	31
<b>Lake Charles, LA MSA</b> . . . . .	168	Clark County, IN . . . . .	88	Dakota County, MN . . . . .	275
Calcasieu Parish . . . . .	168	Floyd County, IN . . . . .	64	Hennepin County, MN . . . . .	1,032
<b>Lake County, IL PMSA</b> . . . . .	516	Harrison County, IN . . . . .	30	Isanti County, MN . . . . .	26
Lake County . . . . .	516				

	1990 Popu- lation (1,000)		1990 Popu- lation (1,000)		1990 Popu- lation (1,000)
Ramsey County, MN . . . . .	486	<b>New York-Northern New</b>		<b>Parkersburg-Marietta, WV-</b>	
Scott County, MN . . . . .	58	<b>Jersey-Long Island,</b>		<b>OH MSA . . . . .</b>	149
Washington County, MN . . . . .	146	<b>NY-NJ-CT CMSA . . . . .</b>	18,087	Wood County, WV . . . . .	87
Wright County, MN . . . . .	69	Bergen-Passaic, NJ PMSA . . . . .	1,278	Washington County, OH . . . . .	62
St. Croix County, WI . . . . .	50	Bridgeport-Milford, CT PMSA . . . . .	444		
		Danbury, CT PMSA . . . . .	188	<b>Pascagoula, MS MSA . . . . .</b>	115
<b>Mobile, AL MSA . . . . .</b>	477	Jersey City, NJ PMSA . . . . .	553	Jackson County . . . . .	115
Baldwin County . . . . .	98	Middlesex-Somerset . . . . .			
Mobile County . . . . .	379	Hunterdon, NJ PMSA . . . . .	1,020	<b>Pawtucket-Woonsocket-</b>	
		Monmouth-Ocean, NJ PMSA . . . . .	986	<b>Attleboro, RI-MA PMSA . . . . .</b>	329
<b>Modesto, CA MSA . . . . .</b>	371	Nassau-Suffolk, NY PMSA . . . . .	2,609	Providence County, RI (pt.) . . . . .	227
Stanislaus County . . . . .	371	New York, NY PMSA . . . . .	8,547	Bristol County, MA (pt.) . . . . .	85
		Newark, NJ PMSA . . . . .	1,824	Norfolk County, MA (pt.) . . . . .	7
<b>Monmouth-Ocean, NJ</b>		Norwalk, CT PMSA . . . . .	127	Worcester County, MA (pt.) . . . . .	10
<b>PMSA . . . . .</b>	986	Orange County, NY PMSA . . . . .	308		
Monmouth County . . . . .	553	Stamford, CT PMSA . . . . .	203	<b>Pensacola, FL MSA . . . . .</b>	344
Ocean County . . . . .	433			Escambia County . . . . .	263
		<b>Newark, NJ PMSA . . . . .</b>	1,824	Santa Rosa County . . . . .	82
<b>Monroe, LA MSA . . . . .</b>	142	Essex County . . . . .	778		
Ouachita Parish . . . . .	142	Morris County . . . . .	421	<b>Peoria, IL MSA . . . . .</b>	339
		Sussex County . . . . .	131	Peoria County . . . . .	183
<b>Montgomery, AL MSA . . . . .</b>	293	Union County . . . . .	494	Tazewell County . . . . .	124
Autauga County . . . . .	34			Woodford County . . . . .	33
Elmore County . . . . .	49	<b>Niagara Falls, NY PMSA . . . . .</b>	221		
Montgomery County . . . . .	209	Niagara County . . . . .	221	<b>Philadelphia, PA-NJ PMSA . . . . .</b>	4,857
				Bucks County, PA . . . . .	541
<b>Muncie, IN MSA . . . . .</b>	120	<b>Norfolk-Virginia Beach-</b>		Chester County, PA . . . . .	376
Delaware County . . . . .	120	<b>Newport News, VA</b>		Delaware County, PA . . . . .	548
		<b>MSA . . . . .</b>	1,396	Montgomery County, PA . . . . .	678
<b>Muskegon, MI MSA . . . . .</b>	159	Gloucester County . . . . .	30	Philadelphia County, PA . . . . .	1,586
Muskegon County . . . . .	159	James City County . . . . .	35	Burlington County, NJ . . . . .	395
		York County . . . . .	42	Camden County, NJ . . . . .	503
<b>Naples, FL MSA . . . . .</b>	152	Chesapeake city . . . . .	152	Gloucester County, NJ . . . . .	230
Collier County . . . . .	152	Hampton city . . . . .	134		
		Newport News city . . . . .	170	<b>Philadelphia-Wilmington-</b>	
<b>Nashua, NH PMSA . . . . .</b>	181	Norfolk city . . . . .	261	<b>Trenton, PA-NJ-DE-MD</b>	
Hillsborough County (pt.) . . . . .	161	Poquoson city . . . . .	11	<b>CMSA . . . . .</b>	5,899
Rockingham County (pt.) . . . . .	20	Portsmouth city . . . . .	104	Philadelphia, PA-NJ PMSA . . . . .	4,857
		Suffolk city . . . . .	52	Trenton, NJ PMSA . . . . .	326
<b>Nashville, TN MSA . . . . .</b>	985	Virginia Beach city . . . . .	393	Vineland-Millville-Bridgeton,	
Cheatham County . . . . .	27	Williamsburg city . . . . .	12	NJ PMSA . . . . .	138
Davidson County . . . . .	511			Wilmington, DE-NJ-MD PMSA . . . . .	579
Dickson County . . . . .	35				
Robertson County . . . . .	41	<b>Norwalk, CT PMSA . . . . .</b>	127	<b>Phoenix, AZ MSA . . . . .</b>	2,122
Rutherford County . . . . .	119	Fairfield County (pt.) . . . . .	127	Maricopa County . . . . .	2,122
Sumner County . . . . .	103				
Williamson County . . . . .	81	<b>Oakland, CA PMSA . . . . .</b>	2,083	<b>Pine Bluff, AR MSA . . . . .</b>	85
Wilson County . . . . .	68	Alameda County . . . . .	1,279	Jefferson County . . . . .	85
		Contra Costa County . . . . .	804		
<b>Nassau-Suffolk, NY PMSA . . . . .</b>	2,609			<b>Pittsburgh, PA PMSA . . . . .</b>	2,057
Nassau County . . . . .	1,287	<b>Ocala, FL MSA . . . . .</b>	195	Allegheny County . . . . .	1,336
Suffolk County . . . . .	1,322	Marion County . . . . .	195	Fayette County . . . . .	145
				Washington County . . . . .	205
<b>New Bedford, MA MSA . . . . .</b>	176	<b>Odessa, TX MSA . . . . .</b>	119	Westmoreland County . . . . .	370
Bristol County (pt.) . . . . .	161	Ector County . . . . .	119		
Plymouth County (pt.) . . . . .	14			<b>Pittsburgh-Beaver Valley,</b>	
		<b>Oklahoma City, OK MSA . . . . .</b>	959	<b>PA CMSA . . . . .</b>	2,243
<b>New Britain, CT PMSA . . . . .</b>	148	Canadian County . . . . .	74	Beaver County, PA PMSA . . . . .	186
Hartford County (pt.) . . . . .	148	Cleveland County . . . . .	174	Pittsburgh, PA PMSA . . . . .	2,057
		Logan County . . . . .	29		
<b>New Haven-Meriden, CT</b>		McClain County . . . . .	23	<b>Pittsfield, MA MSA . . . . .</b>	79
<b>MSA . . . . .</b>	530	Oklahoma County . . . . .	600	Berkshire County (pt.) . . . . .	79
Middlesex County (pt.) . . . . .	18	Pottawatomie County . . . . .	59		
New Haven County (pt.) . . . . .	513			<b>Portland, ME MSA . . . . .</b>	215
		<b>Olympia, WA MSA . . . . .</b>	161	Cumberland County (pt.) . . . . .	197
<b>New London-Norwich, CT-</b>		Thurston County . . . . .	161	York County (pt.) . . . . .	18
<b>RI MSA . . . . .</b>	267				
New London County, CT (pt.) . . . . .	234	<b>Omaha, NE-IA MSA . . . . .</b>	618	<b>Portland, OR PMSA . . . . .</b>	1,240
Windham County, CT (pt.) . . . . .	4	Douglas County, NE . . . . .	416	Clackamas County . . . . .	279
Washington County, RI (pt.) . . . . .	28	Sarpy County, NE . . . . .	103	Multnomah County . . . . .	584
		Washington County, NE . . . . .	17	Washington County . . . . .	312
<b>New Orleans, LA MSA . . . . .</b>	1,239	Pottawattamie County, IA . . . . .	83	Yamhill County . . . . .	66
Jefferson Parish . . . . .	448				
Orleans Parish . . . . .	497	<b>Orange County, NY PMSA . . . . .</b>	308	<b>Portland-Vancouver, OR-</b>	
St. Bernard Parish . . . . .	67	Orange County . . . . .	308	<b>WA CMSA . . . . .</b>	1,478
St. Charles Parish . . . . .	42			Portland, OR PMSA . . . . .	1,240
St. John the Baptist Parish . . . . .	40	<b>Orlando, FL MSA . . . . .</b>	1,073	Vancouver, WA PMSA . . . . .	238
St. Tammany Parish . . . . .	145	Orange County . . . . .	677		
		Osceola County . . . . .	108	<b>Portsmouth-Dover-</b>	
<b>New York, NY PMSA . . . . .</b>	8,547	Seminole County . . . . .	288	<b>Rochester, NH-ME</b>	
Bronx County . . . . .	1,204			<b>MSA . . . . .</b>	224
Kings County . . . . .	2,301	<b>Owensboro, KY MSA . . . . .</b>	87	Rockingham County, NH	
New York County . . . . .	1,488	Daviess County . . . . .	87	(pt.) . . . . .	77
Putnam County . . . . .	84			Strafford County, NH (pt.) . . . . .	98
Queens County . . . . .	1,952	<b>Oxnard-Ventura, CA PMSA . . . . .</b>	669	York County, ME (pt.) . . . . .	49
Richmond County . . . . .	379	Ventura County . . . . .	669		
Rockland County . . . . .	265			<b>Poughkeepsie, NY MSA . . . . .</b>	259
Westchester County . . . . .	875	<b>Panama City, FL MSA . . . . .</b>	127	Dutchess County . . . . .	259
		Bay County . . . . .	127		

	1990 Population (1,000)		1990 Population (1,000)		1990 Population (1,000)
<b>Providence, RI PMSA</b> . . . . .	655	<b>Sacramento, CA MSA</b> . . . . .	1,481	<b>Santa Fe, NM MSA</b> . . . . .	117
Bristol County . . . . .	49	El Dorado County . . . . .	126	Los Alamos County . . . . .	18
Kent County (pt.) . . . . .	158	Placer County . . . . .	173	Santa Fe County . . . . .	99
Newport County (pt.) . . . . .	5	Sacramento County . . . . .	1,041		
Providence County (pt.) . . . . .	369	Yolo County . . . . .	141	<b>Santa Rosa-Petaluma, CA</b>	
Washington County (pt.) . . . . .	74			<b>PMSA</b> . . . . .	388
<b>Providence-Pawtucket-Fall</b>		<b>Saginaw-Bay City-Midland,</b>		Sonoma County . . . . .	388
<b>River, RI-MA CMSA</b> . . . . .	1,142	<b>MI MSA</b> . . . . .	399		
Fall River, MA-RI PMSA . . . . .	157	Bay County . . . . .	112	<b>Sarasota, FL MSA</b> . . . . .	278
Pawtucket-Woonsocket . . . . .		Midland County . . . . .	76	Sarasota County . . . . .	278
Attleboro, RI-MA PMSA . . . . .	329	Saginaw County . . . . .	212		
Providence, RI PMSA . . . . .	655			<b>Savannah, GA MSA</b> . . . . .	243
<b>Provo-Orem, UT MSA</b> . . . . .	264	<b>St. Cloud, MN MSA</b> . . . . .	191	Chatham County . . . . .	217
Utah County . . . . .	264	Benton County . . . . .	30	Efingham County . . . . .	26
		Sherburne County . . . . .	42		
<b>Pueblo, CO MSA</b> . . . . .	123	Stearns County . . . . .	119	<b>Scranton-Wilkes-Barre, PA</b>	
Pueblo County . . . . .	123			<b>MSA</b> . . . . .	734
		<b>St. Joseph, MO MSA</b> . . . . .	83	Columbia County . . . . .	63
<b>Racine, WI PMSA</b> . . . . .	175	Buchanan County . . . . .	83	Lackawanna County . . . . .	219
Racine County . . . . .	175			Luzerne County . . . . .	328
<b>Raleigh-Durham, NC MSA</b> . . . . .	735	<b>St. Louis, MO-IL MSA</b> . . . . .	2,444	Monroe County . . . . .	96
Durham County . . . . .	182	Franklin County, MO . . . . .	81	Wyoming County . . . . .	28
Franklin County . . . . .	36	Jefferson County, MO . . . . .	171		
Orange County . . . . .	94	St. Charles County, MO . . . . .	293	<b>Seattle, WA PMSA</b> . . . . .	1,973
Wake County . . . . .	423	St. Louis County, MO . . . . .	914	King County . . . . .	1,507
<b>Rapid City, SD MSA</b> . . . . .	81	St. Louis city, MO . . . . .	397	Snohomish County . . . . .	466
Pennington County . . . . .	81	Clinton County, IL . . . . .	34		
		Jersey County, IL . . . . .	21	<b>Seattle-Tacoma, WA</b>	
<b>Reading, PA MSA</b> . . . . .	337	Madison County, IL . . . . .	249	<b>CMSA</b> . . . . .	2,559
Berks County . . . . .	337	Monroe County, IL . . . . .	22	Seattle, WA PMSA . . . . .	1,973
		St. Clair County, IL . . . . .	263	Tacoma, WA PMSA . . . . .	586
<b>Redding, CA MSA</b> . . . . .	147	<b>Salem, OR MSA</b> . . . . .	278		
Shasta County . . . . .	147	Marion County . . . . .	228	<b>Sharon, PA MSA</b> . . . . .	121
		Polk County . . . . .	50	Mercer County . . . . .	121
<b>Reno, NV MSA</b> . . . . .	255	<b>Salem-Gloucester, MA</b>		<b>Sheboygan, WI MSA</b> . . . . .	104
Washoe County . . . . .	255	<b>PMSA</b> . . . . .	264	Sheboygan County . . . . .	104
		Essex County (pt.) . . . . .	264		
<b>Richland-Kennewick-Pasco,</b>		<b>Salinas-Seaside-Monterey,</b>		<b>Sherman-Denison, TX</b>	
<b>WA MSA</b> . . . . .	150	<b>CA MSA</b> . . . . .	356	<b>MSA</b> . . . . .	95
Benton County . . . . .	113	Monterey County . . . . .	356	Grayson County . . . . .	95
Franklin County . . . . .	37			<b>Shreveport, LA MSA</b> . . . . .	334
<b>Richmond-Petersburg, VA</b>		<b>Salt Lake City-Ogden, UT</b>		Bossier Parish . . . . .	86
<b>MSA</b> . . . . .	866	<b>MSA</b> . . . . .	1,072	Caddo Parish . . . . .	248
Charles City County . . . . .	6	Davis County . . . . .	188		
Chesterfield County . . . . .	209	Salt Lake County . . . . .	726	<b>Sioux City, IA-NE MSA</b> . . . . .	115
Dinwiddie County . . . . .	21	Weber County . . . . .	158	Woodbury County, IA . . . . .	98
Goochland County . . . . .	14			Dakota County, NE . . . . .	17
Hanover County . . . . .	63	<b>San Angelo, TX MSA</b> . . . . .	98		
Henrico County . . . . .	218	Tom Green County . . . . .	98	<b>Sioux Falls, SD MSA</b> . . . . .	124
New Kent County . . . . .	10			Minnehaha County . . . . .	124
Powhatan County . . . . .	15	<b>San Antonio, TX MSA</b> . . . . .	1,302		
Prince George County . . . . .	27	Bexar County . . . . .	1,185	<b>South Bend-Mishawaka, IN</b>	
Colonial Heights city . . . . .	16	Comal County . . . . .	52	<b>MSA</b> . . . . .	247
Hopewell city . . . . .	23	Guadalupe County . . . . .	65	St. Joseph County . . . . .	247
Petersburg city . . . . .	38				
Richmond city . . . . .	203	<b>San Diego, CA MSA</b> . . . . .	2,498	<b>Spokane, WA MSA</b> . . . . .	361
		San Diego County . . . . .	2,498	Spokane County . . . . .	361
<b>Riverside-San Bernardino,</b>		<b>San Francisco, CA PMSA</b> . . . . .	1,604	<b>Springfield, IL MSA</b> . . . . .	190
<b>CA PMSA</b> . . . . .	2,589	Marin County . . . . .	230	Menard County . . . . .	11
Riverside County . . . . .	1,170	San Francisco County . . . . .	724	Sangamon County . . . . .	178
San Bernardino County . . . . .	1,418	San Mateo County . . . . .	650		
<b>Roanoke, VA MSA</b> . . . . .	224	<b>San Francisco-Oakland-San</b>		<b>Springfield, MA MSA</b> . . . . .	530
Botetourt County . . . . .	25	<b>Jose, CA CMSA</b> . . . . .	6,253	Hampden County (pt.) . . . . .	445
Roanoke County . . . . .	79	Oakland, CA PMSA . . . . .	2,083	Hampshire County (pt.) . . . . .	84
Roanoke city . . . . .	96	San Francisco, CA PMSA . . . . .	1,604		
Salem city . . . . .	24	San Jose, CA PMSA . . . . .	1,498	<b>Springfield, MO MSA</b> . . . . .	241
		Santa Cruz, CA PMSA . . . . .	230	Christian County . . . . .	33
<b>Rochester, MN MSA</b> . . . . .	106	Santa Rosa-Petaluma, CA		Greene County . . . . .	208
Olmsted County . . . . .	106	<b>PMSA</b> . . . . .	388		
		Vallejo-Fairfield-Napa, CA		<b>Stamford, CT PMSA</b> . . . . .	203
<b>Rochester, NY MSA</b> . . . . .	1,002	<b>PMSA</b> . . . . .	451	Fairfield County (pt.) . . . . .	203
Livingston County . . . . .	62				
Monroe County . . . . .	714	<b>San Jose, CA PMSA</b> . . . . .	1,498	<b>State College, PA MSA</b> . . . . .	124
Ontario County . . . . .	95	Santa Clara County . . . . .	1,498	Centre County . . . . .	124
Orleans County . . . . .	42			<b>Steubenville-Weirton, OH-</b>	
Wayne County . . . . .	89	<b>Santa Barbara-Santa Maria-</b>		<b>WV MSA</b> . . . . .	143
		<b>Lompoc, CA MSA</b> . . . . .	370	Jefferson County, OH . . . . .	80
<b>Rockford, IL MSA</b> . . . . .	284	Santa Barbara County . . . . .	370	Brooke County, WV . . . . .	27
Boone County . . . . .	31			Hancock County, WV . . . . .	35
Winnebago County . . . . .	253	<b>Santa Cruz, CA PMSA</b> . . . . .	230		
		Santa Cruz County . . . . .	230	<b>Stockton, CA MSA</b> . . . . .	481
				San Joaquin County . . . . .	481

	1990 Popu- lation (1,000)		1990 Popu- lation (1,000)		1990 Popu- lation (1,000)
<b>Syracuse, NY MSA</b> . . . . .	660	<b>Utica-Rome, NY MSA</b> . . . . .	317	<b>Wausau, WI MSA</b> . . . . .	115
Madison County . . . . .	89	Herkimer County . . . . .	66	Marathon County . . . . .	115
Onondaga County . . . . .	489	Oneida County . . . . .	251		
Oswego County . . . . .	122				
<b>Tacoma, WA PMSA</b> . . . . .	586	<b>Vallejo-Fairfield-Napa, CA</b>		<b>West Palm Beach-Boca</b>	
Pierce County . . . . .	586	<b>PMSA</b> . . . . .	451	<b>Raton-Delray Beach, FL</b>	
		Napa County . . . . .	111	<b>MSA</b> . . . . .	864
		Solano County . . . . .	340	Palm Beach County . . . . .	864
<b>Tallahassee, FL MSA</b> . . . . .	234	<b>Vancouver, WA PMSA</b> . . . . .	238	<b>Wheeling, WV-OH MSA</b> . . . . .	159
Gadsden County . . . . .	41	Clark County . . . . .	238	Marshall County, WV . . . . .	37
Leon County . . . . .	192			Ohio County, WV . . . . .	51
<b>Tampa-St. Petersburg-</b>		<b>Victoria, TX MSA</b> . . . . .	74	Belmont County, OH . . . . .	71
<b>Clearwater, FL MSA</b> . . . . .	2,068	Victoria County . . . . .	74		
Hernando County . . . . .	101			<b>Wichita, KS MSA</b> . . . . .	485
Hillsborough County . . . . .	834	<b>Vineland-Millville-Bridgeton,</b>		Butler County . . . . .	51
Pasco County . . . . .	281	<b>NJ PMSA</b> . . . . .	138	Harvey County . . . . .	31
Pinellas County . . . . .	852	Cumberland County . . . . .	138	Sedgwick County . . . . .	404
<b>Terre Haute, IN MSA</b> . . . . .	131	<b>Visalia-Tulare-Porterville,</b>		<b>Wichita Falls, TX MSA</b> . . . . .	122
Clay County . . . . .	25	<b>CA MSA</b> . . . . .	312	Wichita County . . . . .	122
Vigo County . . . . .	106	Tulare County . . . . .	312		
<b>Texarkana, TX-Texarkana,</b>		<b>Waco, TX MSA</b> . . . . .	189	<b>Williamsport, PA MSA</b> . . . . .	119
<b>AR MSA</b> . . . . .	120	McLennan County . . . . .	189	Lycoming County . . . . .	119
Bowie County, TX . . . . .	82			<b>Wilmington, DE-NJ-MD</b>	
Miller County, AR . . . . .	38	<b>Washington, DC-MD-VA</b>		<b>PMSA</b> . . . . .	579
<b>Toledo, OH MSA</b> . . . . .	614	<b>MSA</b> . . . . .	3,924	New Castle County, DE . . . . .	442
Fulton County . . . . .	38	District of Columbia . . . . .	607	Salem County, NJ . . . . .	65
Lucas County . . . . .	462	Calvert County, MD . . . . .	51	Cecil County, MD . . . . .	71
Wood County . . . . .	113	Charles County, MD . . . . .	101		
		Frederick County, MD . . . . .	150	<b>Wilmington, NC MSA</b> . . . . .	120
<b>Topeka, KS MSA</b> . . . . .	161	Montgomery County, MD . . . . .	757	New Hanover County . . . . .	120
Shawnee County . . . . .	161	Prince George's County,			
		MD . . . . .	729	<b>Worcester, MA MSA</b> . . . . .	437
<b>Trenton, NJ PMSA</b> . . . . .	326	Arlington County, VA . . . . .	171	Worcester County (pt.) . . . . .	437
Mercer County . . . . .	326	Fairfax County, VA . . . . .	819		
<b>Tucson, AZ MSA</b> . . . . .	667	Loudoun County, VA . . . . .	86	<b>Yakima, WA MSA</b> . . . . .	189
Pima County . . . . .	667	Prince William County, VA . . . . .	216	Yakima County . . . . .	189
<b>Tulsa, OK MSA</b> . . . . .	709	Stafford County, VA . . . . .	61		
Creek County . . . . .	61	Alexandria city, VA . . . . .	111	<b>York, PA MSA</b> . . . . .	418
Osage County . . . . .	42	Fairfax city, VA . . . . .	20	Adams County . . . . .	78
Rogers County . . . . .	55	Falls Church city, VA . . . . .	10	York County . . . . .	340
Tulsa County . . . . .	503	Manassas city, VA . . . . .	28		
Wagoner County . . . . .	48	Manassas Park city, VA . . . . .	7	<b>Youngstown-Warren, OH</b>	
<b>Tuscaloosa, AL MSA</b> . . . . .	151			<b>MSA</b> . . . . .	493
Tuscaloosa County . . . . .	151	<b>Waterbury, CT MSA</b> . . . . .	222	Mahoning County . . . . .	265
<b>Tyler, TX MSA</b> . . . . .	151	Litchfield County (pt.) . . . . .	39	Trumbull County . . . . .	228
Smith County . . . . .	151	New Haven County (pt.) . . . . .	183		
		<b>Waterloo-Cedar Falls, IA</b>		<b>Yuba City, CA MSA</b> . . . . .	123
		<b>MSA</b> . . . . .	147	Sutter County . . . . .	64
		Black Hawk County . . . . .	124	Yuba County . . . . .	58
		Bremer County . . . . .	23	<b>Yuma, AZ MSA</b> . . . . .	107
				Yuma County . . . . .	107



## Appendix III

# Statistical Methodology and Reliability

**Introduction.**—The data presented in this *Statistical Abstract* came from many sources. The sources include not only Federal statistical bureaus and other organizations that collect and issue statistics as their principal activity, but also governmental administrative and regulatory agencies, private research bodies, trade associations, insurance companies, health associations, and private organizations such as the National Education Association and philanthropic foundations. Consequently, the data vary considerably as to reference periods, definitions of terms and, for ongoing series, the number and frequency of time periods for which data are available.

The statistics presented were obtained and tabulated by various means. Some statistics are based on complete enumerations or censuses while others are based on samples. Some information is extracted from records kept for administrative or regulatory purposes (school enrollment, hospital records, securities registration, financial accounts, social security records, income tax returns, etc.), while other information is obtained explicitly for statistical purposes through interviews or by mail. The estimation procedures used vary from highly sophisticated scientific techniques, to crude "informed guesses."

Each set of data relates to a group of individuals or units of interest referred to as the *target universe* or *target population*, or simply as the *universe* or *population*. Prior to data collection the target universe should be clearly defined. For example, if data are to be collected for the universe of households in the United States, it is necessary to define a "household." The target universe may not be completely tractable. Cost and other considerations may restrict data collection to a *survey universe* of households on some available list, such list being inaccurate, out of date, defining "household" slightly differently, etc. This list is called a *survey frame* or *sampling frame*.

The data in many tables are based on data obtained for all population units, a *census*, or on data obtained for only a portion, or *sample*, of the population units. When the data presented are based on a sample, the sample is usually a scientifically selected *probability sample*. This is a sample selected from a list or sampling frame in such a way that every possible sample has a known chance of selection and usually each unit selected can be assigned a number, between zero and one, representing its likelihood or probability of selection.

For large-scale sample surveys, the probability sample of units is often selected as a multistage sample. The first stage of a multistage sample is the selection of a probability sample of large groups of population members, referred to as primary sampling units (PSU's). For example, in a national multistage household sample, PSU's are often counties or groups of counties. The second stage of a multistage sample is the selection, within each PSU selected at the first stage, of smaller groups of population units, referred to as secondary sampling units. In subsequent stages of selection, smaller and smaller nested groups are chosen until the ultimate sample of population units is obtained. To qualify a multistage sample as a probability sample, all stages of sampling must be carried out using probability sampling methods.

Prior to selection at each stage of a multistage (or a single stage) sample, a list of the sampling units or sampling frame for that stage must be obtained. For example, for the first stage of selection of a national household sample, a list of the counties and county groups that form the PSU's must be obtained. For the final stage of selection, lists of households, and sometimes persons within the households, have to be compiled in the field. For surveys of economic entities and for the economic census, the Census Bureau generally uses a frame constructed from the Bureau's Standard Statistical Establishment List (SSEL). The SSEL contains all establishments with payroll in the U.S. including small single establishment firms as well as large multi-establishment firms.

Wherever the quantities in a table refer to an entire universe, but are constructed from data collected in a sample survey, the table quantities are referred to as *sample estimates*. In constructing a sample estimate, an attempt is made to come as close as is feasible to the corresponding universe quantity that would be obtained from a complete census of the universe. Estimates based on a sample will, however, generally differ from the hypothetical census figures. Two classifications of errors are associated with estimates based on sample surveys: (1)



*sampling error*—the error arising from the use of a sample, rather than a census, to estimate population quantities and (2) *nonsampling error*—those errors arising from nonsampling sources. As discussed below, the magnitude of the sampling error for an estimate can usually be estimated from the sample data. However, the magnitude of the nonsampling error for an estimate can rarely be estimated. Consequently, actual error in an estimate exceeds the estimated error in the estimate.

The particular sample used in a survey is only one of a large number of possible samples of the same size which could have been selected using the same sampling procedure. Estimates derived from the different samples would, in general, differ from each other. The *standard error* (SE) is a measure of the variation among the estimates derived from all possible samples. The standard error is the most commonly used measure of the sampling error of an estimate. Valid estimates of the standard errors of survey estimates can usually be calculated from the data collected in a probability sample. For convenience, the standard error is sometimes expressed as a percent of the estimate and is called the relative standard error or *coefficient of variation* (CV). For example, an estimate of 200 units with an estimated standard error of 10 units has an estimated CV of 5 percent.

A sample estimate and an estimate of its standard error or CV can be used to construct interval estimates that have a prescribed confidence that the interval includes the average of the estimates derived from all possible samples with a known probability. To illustrate, if all possible samples were selected under essentially the same general conditions, and using the same sample design, and if an estimate and its estimated standard error were calculated from each sample, then: 1) Approximately 68% of the intervals from one standard error below the estimate to one standard error above the estimate would include the average estimate derived from all possible samples; 2) approximately 90% of the intervals from 1.6 standard errors below the estimate to 1.6 standard errors above the estimate would include the average estimate derived from all possible samples; and 3) approximately 95% of the intervals from two standard errors below the estimate to two standard errors above the estimate would include the average estimate derived from all possible samples.

Thus, for a particular sample, one can say with the appropriate level of confidence (e.g., 90% or 95%) that the average of all possible samples is included in the constructed interval. Example of a confidence interval: An estimate is 200 units with a standard error of 10 units. An approximately 90% confidence interval (plus or minus 1.6 standard errors) is from 184 to 216.

All surveys and censuses are subject to nonsampling errors. Nonsampling errors are two kinds—*random* and *nonrandom*. Random nonsampling errors arise because of the varying interpretation of questions (by respondents or interviewers) and varying actions of coders, keyers, and other processors. Some randomness is also introduced when respondents must estimate values. These same errors usually have a nonrandom component. Nonrandom nonsampling errors result from total nonresponse (no usable data obtained for a sampled unit), partial or item nonresponse (only a portion of a response may be usable), inability or unwillingness on the part of respondents to provide correct information, difficulty interpreting questions, mistakes in recording or keying data, errors of collection or processing, and coverage problems (overcoverage and undercoverage of the target universe). Random nonresponse errors usually, but not always, result in an understatement of sampling errors and thus an overstatement of the precision of survey estimates. Estimating the magnitude of nonsampling errors would require special experiments or access to independent data and, consequently, the magnitudes are seldom available.

Nearly all types of nonsampling errors that affect surveys also occur in complete censuses. Since surveys can be conducted on a smaller scale than censuses, nonsampling errors can presumably be controlled more tightly. Relatively more funds and effort can perhaps be expended toward eliciting responses, detecting and correcting response error, and reducing processing errors. As a result, survey results can sometimes be more accurate than census results.

To compensate for suspected nonrandom errors, adjustments of the sample estimates are often made. For example, adjustments are frequently made for nonresponse, both total and partial. Adjustments made for either type of nonresponse are often referred to as *imputations*. Imputation for total nonresponse is usually made by substituting for the questionnaire responses of the nonrespondents the "average" questionnaire responses of the respondents. These imputations usually are made separately within various groups of sample members, formed by attempting to place respondents and nonrespondents together that have "similar" survey characteristics. Imputation for item nonresponse is usually made by substituting for a missing item the response to that item of a respondent having characteristics that are "similar" to those of the nonrespondent.

For an estimate calculated from a sample survey, the *total error* in the estimate is composed of the sampling error, which can usually be estimated from the sample, and the nonsampling error, which usually cannot be estimated from the sample. The total error present in a population quantity obtained from a complete census is composed of only nonsampling errors. Ideally, estimates of the total error associated with data given in the *Statistical Abstract* tables should be given. However, due to the unavailability of estimates of nonsampling errors, only estimates of the levels of sampling errors, in terms of estimated standard errors or coefficients of variation, are available. To obtain estimates of the estimated standard errors from the sample of interest, obtain a copy of the referenced report which appears at the end of each table.

**Principal data bases.**—Beginning below are brief descriptions of 34 of the sample surveys and censuses that provide a substantial portion of the data contained in this *Abstract*.

## SECTION 1. POPULATION

**Source and Title:** Bureau of the Census, *Census of Population*

**Tables:** See tables citing *Census of Population* in section 1 and also in sections 2, 4, 6, 8, 13, 14, 26, and 30.

**Universe, Frequency, and Types of Data:** Complete count of U.S. population conducted every 10 years since 1790. Data obtained on number and characteristics of inhabitants.

**Type of Data Collection Operation:** In 1970, 1980, and 1990 complete census for some items—age, sex, race, marital status, and relationship to household head. In 1970, other items collected from a 5% and a 15% probability (systematic) sample of the population. In 1980, approximately 19% of the housing units were included in the sample; in 1990, approximately 17%.

**Data Collection and Imputation Procedures:** In 1970, extensive use of mail questionnaires in urban areas; personal interviews in most rural areas. In 1980 and 1990, mail questionnaires were used in even more areas than in 1970, with personal interviews in the remainder. Extensive telephone and personal followup for nonrespondents was done in the censuses. Imputations were made for missing characteristics.

**Estimates of Sampling Error:** Sampling errors for data are estimated for all items collected by sample and vary by characteristic and geographic area. The CV's for national and State estimates are generally very small.

**Other (nonsampling) Errors:** Since 1950, evaluation programs have been conducted to provide information on the magnitude of some sources of nonsampling errors such as response bias and undercoverage in each census. Results from the evaluation program for the 1980 census indicate that coverage improved substantially over previous censuses; demographic analysis estimated the net undercount at between 1.0 and 2.2 percent in 1980.

**Sources of Additional Material:** U.S. Bureau of the Census, *The Coverage of Population in the 1980 Census*, PHC80-E4; *Content Reinterview Study: Accuracy of Data for Selected Population and Housing Characteristics as Measured by Reinterview*, PHC80-E2; *1980 Census of Population*, vol 1., (PC80-1), Appendixes B, C, and D.

**Source and Title:** U.S. Bureau of the Census, *Current Population Survey (CPS)*

**Tables:** See tables citing *Current Population Reports* primarily in section 1, but also in sections 2, 3, 4, 8, 12, 13, 14, 23, and 30. Many Bureau of Labor Statistics' (BLS) tables in section 13 are CPS based.

**Universe, Frequency, and Types of Data:** Nationwide monthly sample survey of civilian noninstitutional population, 15 years old or over, to obtain data on employment, unemployment, and a number of other characteristics.

**Type of Data Collection Operation:** Multistage probability sample of about 60,000 households in 729 PSU's in 1989. Over-sampling in some States and the largest MSA's to improve reliability for those areas of employment data on annual average basis. A continual sample rotation system is used. Households are in sample 4 months, out for 8 months, and in for 4 more. Month-to-month overlap is 75%; year-to-year overlap is 50%.

**Data Collection and Imputation Procedures:** For first and fifth months that a household is in sample, personal interviews; other months, approximately, 85% of the data collected by phone. Imputation is done for both item and total nonresponse. Adjustment for total nonresponse is done by a predefined cluster of units, by MSA size and residence; for item nonresponse imputation varies by subject matter.

**Estimates of Sampling Error:** Estimated CV's on national annual averages for labor force, total employment, and nonagricultural employment, .2%; for total unemployment and agricultural employment, 1.0% to 2.5%. The estimated CV's for family income and poverty rate for all persons in 1986 are .5% and 1.5%, respectively. CV's for subnational areas, such as States, would be larger and would vary by area.

**Other (nonsampling) Errors:** Estimates of response bias on unemployment are not available, but estimates of unemployment are usually 5% to 9% lower than estimates from reinterviews. Four to 5.0% of sample households unavailable for interviews.

**Sources of Additional Material:** U.S. Bureau of the Census and Bureau of Labor Statistics, *Concepts and Methods Used in Labor Force Statistics from Current Population Survey* (Census series P-23, No. 62; BLS Report No. 463) and Bureau of the Census, *Current Population Survey* (Tech. Paper 40) and Bureau of Labor Statistics, *Employment and Earnings*, monthly, Explanatory Notes, table A-K and *BLS Handbook of Methods*, Chapter 1 (Bulletin 2285.)

## SECTION 2. VITAL STATISTICS

**Source and Title:** U.S. National Center for Health Statistics (NCHS), *Vital Registration System Tables*: See tables citing *Vital Statistics of the United States*, 297 in section 5; and 1417 in section 30.

**Universe, Frequency, and Types of Data:** Annual data on births and deaths in the United States.

**Type of Data Collection Operation:** Mortality data based on complete file of death records, except 1972, based on 50% sample. Natality statistics 1951-71, based on 50% sample of birth certificates, except a 20% to 50% in 1967, received by NCHS. Beginning 1972, data from some States received through Vital Statistics Cooperative Program (VSCP) and complete file used; data from other States based on 50% sample. Beginning 1986, all reporting areas participated in the VSCP.

**Data Collection and Imputation Procedures:** Reports based on records from registration offices of all States, District of Columbia, New York City, Puerto Rico, Virgin Islands, and Guam.

**Estimates of Sampling Error:** For recent years, CV's for births are small due to large portion of total file in sample (except for very small estimated totals).

**Other (nonsampling) Errors:** Data on births and deaths believed to be at least 99% complete.

**Sources of Additional Material:** U.S. National Center for Health Statistics, *Vital Statistics of the United States*, vol. I and vol. II, annual, and *Monthly Vital Statistics Report*.

(See section 1 above for information pertaining to tables 94-100.)

## SECTION 3. HEALTH AND NUTRITION

**Source and Title:** U.S. National Center for Health Statistics, *National Health Interview Survey (NHIS)*

**Tables:** 162, 184, 188, 189, 194-196, 201, 203-205, 211, and in section 4, table 228, and section 12, table 621.

**Universe, Frequency, and Types of Data:** Continuous data collection covering the civilian noninstitutional population to obtain information on personal and demographic characteristics, illnesses, injuries, impairments, and other health topics.

**Type of Data Collection Operation:** Multistage probability sample of 42,000 households (in 376 PSU's) selected in groups of about four adjacent households.

**Data Collection and Imputation Procedures:** Personal household interviews with extensive followup of nonrespondents. Data are adjusted for nonresponse by imputation procedure based on "average" characteristics of persons in interviewed households in the same geographic area.

**Estimates of Sampling Error:** Estimated CV's: For physician visits by males, 1.5%; for workdays lost by males, 3.5%; for persons injured at home, 4.7%.

**Other (nonsampling) Errors:** Response rate was 95.7% in 1985 for the NHIS.

**Sources of Additional Material:** U.S. National Center for Health Statistics, "Current Estimates from the National Health Interview Survey, U.S., 1983," *Vital and Health Statistics*, series 10.

(See section 15 for information pertaining to table 152.)

## SECTION 4. EDUCATION

**Source and Title:** U.S. Department of Education, National Center for Education Statistics, *Higher Education General Information Survey (HEGIS)*, *Fall Enrollment in Institutions of Higher Education*; beginning 1986, *Integrated Postsecondary Education Data Survey (IPEDS)*, *Fall Enrollment*

**Tables:** 262, 264-267, and 286.

**Universe, Frequency, and Types of Data:** Annual survey of all institutions and branches listed in the *Directory* to obtain data on total enrollment by sex, level of enrollment, type of program, racial/ethnic characteristics (in alternate years) and attendance status of student, and on first-time students.

**Type of Data Collection Operation:** Complete census.

**Data Collection and Imputation Procedures:** Survey package is usually mailed in the spring with surveys due at varying dates in the summer and fall; mail and phone followup procedures for nonrespondents. Missing data are imputed by using data of similar institutions.

**Estimates of Sampling Error:** Not applicable.

**Other (nonsampling) Errors:** Approximately 93% response rate.

**Sources of Additional Material:** U.S. Department of Education, National Center for Education Statistics, *Fall Enrollment in Higher Education*, annual.

**Source and Title:** U.S. Department of Education, National Center for Education Statistics, *Higher Education General Information Survey (HEGIS)*, *Financial Statistics of Institutions of Higher Education*; beginning 1986, *Integrated Postsecondary Education Data Survey (IPEDS)*, *Financial Statistics of Institutions of Higher Education*

**Tables:** 216, 217, 265, and 273.

**Universe, Frequency, and Types of Data:** Annual survey of all institutions and branches listed in the *Education Directory*, *Colleges and Universities* to obtain data on financial status and operations, including current funds revenues, current funds expenditures, and physical plant assets.

**Type of Data Collection Operation:** Complete census.

**Data Collection and Imputation Procedures:** Survey package is usually mailed in the spring with surveys due at varying dates in the summer and fall; mail and phone followup procedures for nonrespondents. Missing data are imputed by using data of similar institutions.

**Estimates of Sampling Error:** Not applicable.

**Other (nonsampling) Errors:** For 1986, a 87% response rate. Imputed expenditures amounted to about 2.8% of total expenditures.

**Sources of Additional Material:** U.S. Department of Education, National Center for Education Statistics, *Financial Statistics of Institutions of Higher Education*, annual.

**Source and Title:** U.S. Department of Education, National Center for Education Statistics, *Higher Education General Information Survey (HEGIS)*, *Degrees and Other Formal Awards Conferred*. Beginning 1986, *Integrated Postsecondary Education Data Survey (IPEDS)*, *Degrees and Other Formal Awards Conferred*.

**Tables:** 283-287.

**Universe, Frequency, and Types of Data:** Annual survey of all institutions and branches listed in the *Education Directory*, *Colleges and Universities* to obtain data on earned degrees and other formal awards, conferred by field of study, level of degree, sex, and by racial/ethnic characteristics (in alternate years).

**Type of Data Collection Operation:** Complete census.

**Data Collection and Imputation Procedures:** Survey package is usually mailed in the spring with surveys due at varying dates in the summer and fall; mail and phone followup procedures for nonrespondents. Missing data are imputed by using data of similar institutions.

**Estimates of Sampling Error:** Not applicable.

**Other (nonsampling) Errors:** For 1985-86, approximately 93% response rate.

**Sources of Additional Material:** U.S. Department of Education, National Center for Education Statistics, *Earned Degrees Conferred*, annual.

(See sections 1 and 9 for information pertaining to the Bureau of the Census and section 3 above for the National Center for Health Statistics.)

## SECTION 5. LAW ENFORCEMENT, COURTS, AND PRISONS

**Source and Title:** U.S. Federal Bureau of Investigation, *Uniform Crime Reporting (UCR) Program*  
**Tables:** 292-296, 298, 299, 307, and 309.

**Universe, Frequency, and Types of Data:** Monthly reports on the number of criminal offenses that become known to law enforcement agencies. Data are collected on crimes cleared by arrest, by age, sex, and race of offender, and on assaults on law enforcement officers.

**Type of Data Collection Operation:** Crime statistics are based on reports of crime data submitted either directly to the FBI by contributing law enforcement agencies or through cooperating State UCR programs.

**Data Collection and Imputation Procedures:** States with UCR programs collect data directly from individual law enforcement agencies and forward reports, prepared in accordance with UCR standards, to FBI. Accuracy and consistency edits are performed by FBI.

**Estimates of Sampling Error:** Not applicable.

**Other (nonsampling) Errors:** Coverage of 98% of the population (99% in SMSA's, 94% in "other cities," and 90% in rural areas) by UCR program, though varying number of agencies report. Some error may be present through incorrect reporting.

**Sources of Additional Material:** U.S. Federal Bureau of Investigation, *Crime in the United States*.

**Source and Title:** U.S. Bureau of Justice Statistics (BJS), *National Crime Survey*

**Tables:** 300-304.

**Universe, Frequency, and Types of Data:** Monthly survey of individuals and households in the U.S. to obtain data on criminal victimization of those units for compilation of annual estimates.

**Type of Data Collection Operation:** National probability sample survey of about 50,000 interviewed households in 376 PSU's selected from a list of addresses from the 1980 census, supplemented by new construction permits and an area sample where permits are not required.

**Data Collection and Imputation Procedures:** Interviews are conducted every 6 months for 3 years for each household in the sample; 8,000 households are interviewed monthly. Personal interviews are used in the first and fifth interviews; the intervening interviews are conducted by telephone whenever possible.

**Estimates of Sampling Error:** CV's in 1985: 2.2% for crimes of violence; 14.8% for estimate of rape counts; 5.5% for robbery counts; 2.5% for assault counts; 1.4% for personal larceny counts; 2.2% for burglary counts; 1.8% for household larceny; 1.3% for all household crimes; and 4.8% for motor vehicle theft counts.

**Other (nonsampling) Errors:** Respondent recall errors which may include reporting incidents for other than the reference period; interviewer coding and processing errors; and possible mistaken reporting or classifying of events. Adjustment is made for a household noninterview rate of about 4% and for a smaller within-household noninterview rate.

**Sources of Additional Material:** U.S. Bureau of Justice Statistics, *Criminal Victimization in the United States*, annual.

(See section 2 for details on table 297 and section 9 for details on table 318.)

## SECTION 8. ELECTIONS

(See section 1 above for information pertaining to table 450.)

## SECTION 9. STATE AND LOCAL GOVERNMENT FINANCES AND EMPLOYMENT

**Source and Title:** U.S. Bureau of the Census, *Census of Governments*

**Tables:** See tables in section 9 citing *Census of Governments*.

**Universe, Frequency, and Types of Data:** Survey of all governmental units in the U.S. conducted every 5 years to obtain data on government revenue, expenditures, debt, employment and employee retirement systems, property values, public school systems, and number, size, and structure of governments.

**Type of Data Collection Operation:** Complete census. List of units derived through classification of government units recently authorized in each State and identification, counting, and classification of existing local governments and public school systems.

**Data Collection and Imputation Procedures:** Data collected through field and office compilation of financial data from official records and reports for States and large local governments; mail canvass of selected data items, like State tax revenue and employee retirement systems; and collection of local government statistics through central collection arrangements with State governments.

**Estimates of Sampling Error:** Not applicable.

**Other (nonsampling) Errors:** Some nonsampling errors may arise due to possible inaccuracies in classification, response, and processing.

**Sources of Additional Material:** U.S. Bureau of the Census, *Census of Governments, 1987*, various reports, and *State Government Finances in 1989*, GF 89, No. 3.

**Source and Title:** U.S. Bureau of the Census, *Annual Surveys of State and Local Government*

**Tables:** See tables citing *Public Employment* and *Governmental Finances* in section 9; table 243 in section 4; table 318 in section 5; and table 601 in section 12.

**Universe, Frequency, and Types of Data:** Sample survey conducted annually to obtain data on revenue, expenditure, debt, and employment of State and local governments. Universe is all governmental units in the U.S. (about 82,000).

**Type of Data Collection Operation:** Sample of about 22,000 units includes all State governments, county governments with 50,000+ population, municipalities and townships in certain States with 25,000+ population, all school districts with 5,000+ enrollment in October 1981, and other governments meeting certain criteria; probability sample for remaining units. A supplemental survey provides complete coverage of 39,000 local government units for data on taxes and intergovernmental revenue.

**Data Collection and Imputation Procedures:** Field and office compilation of data from official records and reports for States and large local governments; central collection of local governmental financial data through a number of State governments; mail canvass of other units with mail and telephone followups of nonrespondents. Data for nonresponses are imputed from previous year data or obtained from secondary sources, if available.

**Estimates of Sampling Error:** CV's for estimates of major employment and financial items are generally less than 2% for most States and less than 1.2% for the majority of States.

**Other (nonsampling) Errors:** Nonresponse rate is about 15% for number of units. Other possible errors may result from undetected inaccuracies in classification, response, and processing.

**Sources of Additional Material:** U.S. Bureau of the Census, *Public Employment in 1988*, GE 88, No. 1, *Governmental Finances in 1987-88*, GF 88, No. 5, and *Census of Governments, 1987*, various reports.

#### SECTION 10. FEDERAL GOVERNMENT

**Source and Title:** U.S. Internal Revenue Service, *Statistics of Income, Individual Income Tax Returns*

**Tables:** 523-527.

**Universe, Frequency, and Types of Data:** Annual study of unaudited individual income tax returns, Forms 1040, 1040A, and 1040EZ, filed by U.S. citizens and residents. Data provided on various financial characteristics by size of adjusted gross income, marital status, and by taxable and nontaxable returns. Data by State, based on 100% file, also include returns from 1040NR, filed by nonresident aliens plus certain self-employment tax returns.

**Type of Data Collection Operation:** Annual stratified probability sample of approximately 125,000 returns broken into sample strata based on the larger of total income or total loss amounts as well as the size of business plus farm receipts. Sampling rates for sample strata varied from .025% to 100%.

**Data Collection and Imputation Procedures:** Computer selection of sample of tax return records. Data adjusted during editing for incorrect, missing, or inconsistent entries to ensure consistency with other entries on return.

**Estimates of Sampling Error:** Estimated CV's for tax year 1987: Adjusted gross income less deficit .13%; salaries and wages .20%; and tax-exempt interest received 4.51%. (State data not subject to sampling error.)

**Other (nonsampling) Errors:** Processing errors and errors arising from the use of tolerance checks for the data.

**Sources of Additional Material:** U.S. Internal Revenue Service, *Statistics of Income, Individual Income Tax Returns*, annual.

#### SECTION 12. SOCIAL INSURANCE AND HUMAN SERVICES

**Source and Title:** U.S. Social Security Administration, *Benefit Data*

**Tables:** 593 and 594.

**Universe, Frequency, and Types of Data:** All persons receiving monthly benefits under Title 11 of Social Security Act. Data on number and amount of benefits paid by type and State.

**Type of Data Collection Operation:** Data based on administrative records. Data based on 100% files, as well as 10% and 1% sample files.

**Data Collection and Imputation Procedures:** Records used consist of actions pursuant to applications for benefits, updated by subsequent post-entitlement actions.

**Estimates of Sampling Error:** Varies by size of estimate and sample file size.

**Other (nonsampling) Errors:** Processing errors, which are believed to be small.

**Sources of Additional Material:** U.S. Social Security Administration, *Annual Statistical Supplement to the Social Security Bulletin*.

**Source and Title:** U.S. Social Security Administration, *Supplemental Security Income (SSI) Program*

**Tables:** 612-615.

**Universe, Frequency, and Types of Data:** All eligible aged, blind, or disabled persons receiving SSI benefit payments under SSI program. Data include number of persons receiving federally administered SSI, amounts paid, and State administered supplementation.

**Type of Data Collection Operation:** Data based on administrative records.

**Data Collection and Imputation Procedures:** Data adjusted to reflect returned checks and overpayment refunds. For federally administered payments, actual adjusted amounts are used; for State administered, payments are deflated for average rate across all States.

**Estimates of Sampling Error:** Not applicable.

**Other (nonsampling) Errors:** Processing errors, which are believed to be small.

**Sources of Additional Material:** U.S. Social Security Administration, *Annual Statistical Supplement to the Social Security Bulletin*.

(See section 1 above for information pertaining to the Current Population Survey, section 3 for information pertaining to the National Center for Health Statistics, and section 9 for information pertaining to Annual Surveys of State and Local Government.)

### SECTION 13. LABOR FORCE, EMPLOYMENT, AND EARNINGS

**Source and Title:** U.S. Bureau of Labor Statistics (BLS), *Current Employment Statistics (CES)* Program

**Tables:** 667-669, 674; in section 21, table 1020; in section 22, table 1083; and in section 24, table 1183.

**Universe, Frequency, and Types of Data:** Monthly survey covering about 5 million nonagricultural establishments to obtain data on employment, hours, and earnings, by industry.

**Type of Data Collection Operation:** Sample survey of over 330,000 establishments in March 1989.

**Data Collection and Imputation Procedures:** Cooperating State agencies mail questionnaires to sample establishments to develop State and local estimates; information is forwarded to BLS where national estimates are prepared.

**Estimates of Sampling Error:** Estimated CV's for average weekly hours paid, .1% and for average hourly earnings, .2%.

**Other (nonsampling) Errors:** Estimates of employment adjusted annually to reflect complete universe. Average adjustment is .2%.

**Sources of Additional Material:** U.S. Bureau of Labor Statistics, *Employment and Earnings*, monthly, Explanatory Notes, tables L-Q and *BLS Handbook of Methods*, Chapter 2, Bulletin 2285 (Apr. 1988).

(See section 1 above for information pertaining to the Current Population Survey.)

### SECTION 14. INCOME, EXPENDITURES, AND WEALTH

(See section 1 above for information pertaining to the Bureau of the Census.)

### SECTION 15. PRICES

**Source and Title:** U.S. Bureau of Labor Statistics (BLS), *Consumer Price Index (CPI)*

**Tables:** 764, 765, 769-773, 787, 788, and in section 3, table 152.

**Universe, Frequency, and Types of Data:** Monthly survey of price changes of all types of consumer goods and services purchased by urban wage earners and clerical workers prior to 1978, and urban consumers thereafter. Both indexes continue to be published.

**Type of Data Collection Operation:** Prior to 1978, sample of various consumer items in 56 urban areas; thereafter, in 85 PSU's, except from January 1987 through March 1988, when 91 areas were sampled.

**Data Collection and Imputation Procedures:** Prices of consumer items are obtained from about 57,000 housing units, and 19,000 other reporters in 85 areas. Prices of food, fuel, and a few other items are obtained monthly; prices of most other commodities and services are collected every month in the 5 largest geographic areas and every other month in others.

**Estimates of Sampling Error:** Estimates of standard errors are not available at present.

**Other (nonsampling) Errors:** Errors result from inaccurate reporting, difficulties in defining concepts and their operational implementation, and introduction of product quality changes and new products.

**Sources of Additional Material:** U.S. Bureau of Labor Statistics, *The Consumer Price Index: 1987 Revision*, Report 736, and *BLS Handbook of Methods*, Bulletin 2285.

**Source and Title:** U.S. Bureau of Labor Statistics, *Producer Price Index (PPI)*

**Tables:** 764, 766, 776-778; in section 21, table 1068; in section 24, table 1187; and in section 26, table 1260.

**Universe, Frequency, and Types of Data:** Monthly survey of producing companies to determine price changes of all commodities produced in the U.S. for sale in commercial transactions. Data on agriculture, forestry, fishing, manufacturing, mining, gas, electricity, public utilities and a few services.

**Type of Data Collection Operation:** Probability sample of approximately 3,100 commodities and about 75,000 quotations per month.

**Data Collection and Imputation Procedures:** Data are collected by mail. If transaction prices are not supplied, list prices are used. Some prices are obtained from trade publications, organized exchanges, and government agencies. To calculate index, price changes are multiplied by their relative weights based on total net selling value of all commodities in 1982.

**Estimates of Sampling Error:** Not applicable.

**Other (nonsampling) Errors:** Not available at present.

**Sources of Additional Material:** U.S. Bureau of Labor Statistics, *BLS Handbook of Methods*, Bulletin 2285.

#### SECTION 17. BUSINESS ENTERPRISE

**Source and Title:** U.S. Internal Revenue Service, *Statistics of Income, Sole Proprietorship Returns and Statistics of Income Bulletin*

**Tables:** 860-863.

**Universe, Frequency, and Types of Data:** Annual study of unaudited income tax returns of nonfarm sole proprietorships, Form 1040 with business schedules. Data provided on various financial characteristics by industry.

**Type of Data Collection Operation:** Stratified probability sample of approximately 33,000 sole proprietorships for tax year 1987. The sample is classified based on presence or absence of certain business schedules; the larger of total income or loss; and size of business plus farm receipts. Sampling rates vary from .025% to 100%.

**Data Collection and Imputation Procedures:** Computer selection of sample of tax return records. Data adjusted during editing for incorrect, missing, or inconsistent entries to ensure consistency with other entries on return.

**Estimates of Sampling Error:** Estimated CV's for tax year 1987 (latest available): For sole proprietorships, business receipts, 1.66%; net income, (less loss), 1.33%; depreciation 2.17%; interest expense 2.80%; and employee benefit programs 7.55%.

**Other (nonsampling) Errors:** Processing errors and errors arising from the use of tolerance checks for the data.

**Sources of Additional Material:** U.S. Internal Revenue Service, *Statistics of Income, Sole Proprietorship Returns* (for years through 1980) and *Statistics of Income Bulletin*, Vol. 10, No. 1 (Summer 1990).

**Source and Title:** U.S. Internal Revenue Service, *Statistics of Income, Partnership Returns and Statistics of Income Bulletin*

**Tables:** 860-862, 864, and 865.

**Universe, Frequency, and Types of Data:** Annual study of unaudited income tax returns of partnerships, Form 1065. Data provided on various financial characteristics by industry.

**Type of Data Collection Operation:** Stratified probability sample of approximately 33,000 partnership returns from a population of 1,790,000 filed during calendar year 1989. The sample is classified based on combinations of gross receipts, net income or loss, and total assets, and on industry. Sampling rates vary from .03% to 100%.

**Data Collection and Imputation Procedures:** Computer selection of sample of tax return records. Data adjusted during editing for incorrect, missing, or inconsistent entries to ensure consistency with other entries on return. Data not available due to regulations are not imputed.

**Estimates of Sampling Error:** Estimated CV's for tax year 1988 (latest available): For number of partnerships, .51%; business receipts, .78%; net income, 3.03%; net loss, 2.21% and total assets, 1.22%.

**Other (nonsampling) Errors:** Processing errors and errors arising from the use of tolerance checks for the data.

**Sources of Additional Material:** U.S. Internal Revenue Service, *Statistics of Income, Partnership Returns and Statistics of Income Bulletin*, Vol. 10, No. 1 (Summer 1990).

**Source and Title:** U.S. Internal Revenue Service, *Corporation Income Tax Returns*

**Tables:** 860-862, and 868-870.

**Universe, Frequency, and Types of Data:** Annual study of unaudited corporation income tax returns, Forms 1120 and 1120 (A, F, FSC, IC-DISC, L, PC, REIT, RIC, and S), filed by corporations or businesses legally defined as corporations. Data provided on various financial characteristics by industry and size of total assets, and business receipts.

**Type of Data Collection Operation:** Stratified probability sample of approximately 85,000 returns for 1987, distributed by sample classes generally based on type of return, size of total assets, size of net income or deficit, and selected business activity. Sampling rates for sample strata varied from .3% to 100%.



**Data Collection and Imputation Procedures:** Computer selection of sample of tax return records. Data adjusted during editing for incorrect, missing, or inconsistent entries to ensure consistency with other entries on return and to achieve statistical definitions.

**Estimates of Sampling Error:** Estimated CV's for 1987: Number of returns in subgroups ranged from 1.3% with assets under \$100,000, to 0% with assets over \$100 mil.; for amount of net income and amount of income tax, .8%.

**Other (nonsampling) Errors:** Processing errors and errors arising from the use of tolerance checks for the data.

**Sources of Additional Material:** U.S. Internal Revenue Service, *Statistics of Income, Corporation Income Tax Returns*, annual.

## SECTION 18. COMMUNICATIONS

(See section 27 for information pertaining to table 931.)

## SECTION 19. ENERGY

**Source and Title:** U.S. Energy Information Administration, *Residential Energy Consumption Survey*

**Tables:** 953-956, 987, and table 1289 in section 26.

**Universe, Frequency, and Types of Data:** Triennial survey of households and fuel suppliers. Data are obtained on energy-related household characteristics, housing unit characteristics, use of fuels, and energy consumption and expenditures by fuel type.

**Type of Data Collection Operation:** Probability sample of 7,183 eligible units in 129 PSU's. For responding units, fuel consumption and expenditure data obtained from fuel suppliers to those households.

**Data Collection and Imputation Procedures:** Personal interviews. Extensive followup of nonrespondents including mail questionnaires for some households. Adjustments for nonrespondents were made in weighting for respondents. Most item nonresponses were imputed.

**Estimates of Sampling Error:** Estimated CV's for household averages: For consumption, 1.3%; for expenditures, 1.0%; for various fuels, values ranged from 1.4% for electricity to 5.9% for LPG.

**Other (nonsampling) Errors:** Household response rate of 86.7%. Non-consumption data were mostly imputed for mail respondents (5.2% of eligible units). Usable responses from fuel suppliers for various fuels ranged from 82.8% for electricity to 55.7% for fuel oil.

**Sources of Additional Material:** U.S. Energy Information Administration, *Household Energy Consumption and Expenditures, 1987* and *Housing Characteristics, 1987*.

## SECTION 21. TRANSPORTATION—LAND

(See section 13 for table 1020, and section 15 for table 1068.)

## SECTION 22. TRANSPORTATION—AIR AND WATER

**Source and Title:** U.S. Bureau of the Census, *Foreign Trade—Export Statistics*

**Tables:** See Bureau of the Census citations for export statistics in source notes in sections 22 and 29 and also tables 1210 and 1211 in section 24; 1224 in section 25; and 1429 in section 30.

**Universe, Frequency, and Types of Data:** The export declarations collected by Customs are processed each month to obtain data on the movement of U.S. merchandise exports to foreign countries. Data obtained include value, quantity, and shipping weight of exports by commodity, country of destination, Customs district of exportation, and mode of transportation.

**Type of Data Collection Operation:** Shipper's Export Declarations are required to be filed for the exportation of merchandise valued over \$1,500. Customs officials collect and transmit the documents to the Bureau of the Census on a flow basis for data compilation. Value data for shipments valued under \$1,501 are estimated, based on established percentages of individual country totals.

**Data Collection and Imputation Procedures:** Statistical copies of Shipper's Export Declarations are received on a daily basis from Customs ports throughout the country and subjected to a monthly processing cycle. They are fully processed to the extent they reflect items valued over \$1,500. Estimates for shipments valued at \$1,500 or less are made, based on established percentages of individual country totals.

**Estimates of Sampling Error:** Not applicable.

**Other (nonsampling) Errors:** Clerical and complex computer checks intercept most processing errors and minimize otherwise significant reporting errors; other nonsampling errors are caused by undercounting of exports to Canada due to the nonreceipt of some Shipper's Export Declarations.

**Sources of Additional Material:** U.S. Bureau of the Census, *U.S. Merchandise Trade: Exports, General Imports, and Imports for Consumption, SITC, Commodity by Country*, FT 925.

**Source and Title:** U.S. Bureau of the Census, *Foreign Trade—Import Statistics*

**Tables:** See Bureau of the Census citations for import statistics in source notes in sections 22 and 29 and also tables 1210 and 1211 in section 24; 1224 in section 25; and 1429 in section 30.

**Universe, Frequency, and Types of Data:** The import entry documents collected by Customs are processed each month to obtain data on the movement of merchandise imported into the United States. Data obtained include value, quantity, and shipping weight by commodity, country of origin, Customs district of entry, and mode of transportation.

**Type of Data Collection Operation:** Import entry documents are required to be filed for the importation of goods into the United States valued over \$1,000 or for articles which must be reported on formal entries. Customs officials collect and transmit statistical copies of the documents to the Bureau of the Census on a flow basis for data compilation. Estimates for shipments valued under \$1,001 and not reported on formal entries are based on established percentages of individual country totals.

**Data Collection and Imputation Procedures:** Statistical copies of import entry documents, received on a daily basis from Customs ports of entry throughout the country, are subjected to a monthly processing cycle. They are fully processed to the extent they reflect items valued at \$1,001 and over or items which must be reported on formal entries.

**Estimates of Sampling Error:** Not applicable.

**Other (nonsampling) Errors:** Verification of statistical data reporting by Customs officials prior to transmittal and a subsequent program of clerical and computer checks are utilized to hold nonsampling errors arising from reporting and/or processing errors to a minimum.

**Sources of Additional Material:** U.S. Bureau of the Census, *U.S. Merchandise Trade: Exports, General Imports and Imports for Consumption, SITC, Commodity by Country*, FT 925.

(See section 13 for information pertaining to table 1083.)

## SECTION 23. AGRICULTURE

**Source and Title:** U.S. Department of Agriculture, National Agricultural Statistics Service (NASS), *Basic Area Frame Sample*

**Tables:** See tables citing NASS in source notes in section 23, which pertain to this or the following two surveys.

**Universe, Frequency, and Types of Data:** Two annual area sample surveys of U.S. farm operators: June agricultural survey collects data on planted acreage and livestock inventories; and a February Farm Costs and Returns survey that collects data on total farm production, expenses and specific commodity costs of production.

**Type of Data Collection Operation:** Stratified probability sample of about 16,000 land area units of about 1 sq. mile (range from .1 sq. mile in cities to several sq. miles in open grazing areas). Sample includes 60,000 parcels of agricultural land. About 20% of the sample replaced annually.

**Data Collection and Imputation Procedures:** Data collection is by personal enumeration. Imputation is based on enumerator observation or data reported by respondents having similar agricultural characteristics.

**Estimates of Sampling Error:** Estimated CV's range from 1% to 2% for regional estimates to 3% to 6% for State estimates of livestock inventories.

**Other (nonsampling) Errors:** Minimized through rigid quality controls on the collection process and careful review of all reported data.

**Sources of Additional Material:** U.S. Department of Agriculture, SRS, *Scope and Methods of the Statistical Reporting Service*, (name changed to National Agricultural Statistics Service), Miscellaneous Publication No. 1308, September 1983 (revised).

**Source and Title:** U.S. Department of Agriculture, National Agricultural Statistics Service (NASS), *Multiple Frame Surveys*

**Tables:** See tables citing NASS in source notes in section 23, which pertain to this or the following survey.

**Universe, Frequency, and Types of Data:** Surveys of U.S. farm operators to obtain data on major livestock inventories, selected crop acreages and production, grain stocks, and farm labor characteristics; and to obtain farm economic data for price indexing.

**Type of Data Collection Operation:** Primary frame is obtained from general or special purpose lists, supplemented by a probability sample of land areas used to estimate for list incompleteness.

**Data Collection and Imputation Procedures:** Mail, telephone or personal interviews used for initial data collection. Mail nonrespondent followup by phone and personal interviews. Imputation based on average of respondents.

**Estimates of Sampling Error:** Estimated CV for number of hired farm workers is about 3%. Estimated CV's range from 1% to 2% for regional estimates to 3% to 6% for State estimates of livestock inventories.

**Other (nonsampling) Errors:** In addition to above, replicated sampling procedures used to monitor effects of changes in survey procedures.

**Sources of Additional Material:** U.S. Department of Agriculture, SRS, *Scope and Methods of the Statistical Reporting Service*, (name changed to National Agricultural Statistics Service), Miscellaneous Publication No. 1308, September 1983 (revised).

**Source and Title:** U.S. Department of Agriculture, National Agricultural Statistics Service (NASS), *Objective Yield Surveys*

**Tables:** See tables citing NASS in source notes in section 23, which pertain to this or the preceding survey.

**Universe, Frequency, and Types of Data:** Surveys for data on corn, cotton, potatoes, soybeans, wheat, and rice to forecast and estimate yields.

**Type of Data Collection Operation:** Random location of plots in probability sample of fields. Fields selected in June from Basic Area Frame Sample (see above).

**Data Collection and Imputation Procedures:** Enumerators count and measure plant characteristics in sample fields. Production measured from plots at harvest. Harvest loss measured from post harvest gleanings.

**Estimates of Sampling Error:** CV's for national estimates of production are about 2-3%.

**Other (nonsampling) Errors:** In addition to above, replicated sampling procedures used to monitor effects of changes in survey procedures.

**Sources of Additional Material:** U.S. Department of Agriculture, SRS, *Scope and Methods of the Statistical Reporting Service*, (name changed to National Agricultural Statistics Service), Miscellaneous Publication No. 1308, September 1983 (revised).

(See section 1 above for information pertaining to the Census of Population and Current Population Survey.)

## SECTION 24. FORESTS AND FISHERIES

(See section 13 for information pertaining to table 1183, section 15 for table 1187, and section 22 for tables 1210 and 1211.)

## SECTION 26. CONSTRUCTION AND HOUSING

**Source and Title:** U.S. Bureau of the Census, *Monthly Survey of Construction*

**Tables:** 1269, and 1271-1274.

**Universe, Frequency, and Types of Data:** Survey conducted monthly of newly constructed housing units (excluding mobile homes, and nonhousekeeping residential buildings such as motels, hotels, courts and cabins). Data are collected on the start, completion, and sale of housing. (Annual figures are aggregates of monthly estimates.)

**Type of Data Collection Operation:** Probability sample of housing units obtained from building permits selected from 16,000 permit-issuing places through 1984 and, beginning in 1985, 17,000 places. For nonpermit places, multistage probability sample of new housing units selected in 169 PSU's. In those areas, all roads are canvassed in selected enumeration districts.

**Data Collection and Imputation Procedures:** Data are obtained by telephone inquiry and field visit.

**Estimates of Sampling Error:** Estimated CV of 3% to 4% for estimates of national totals, but are as high as 20% for estimated totals of more detailed characteristics, such as housing units in multiunit structures.

**Other (nonsampling) Errors:** Response rate is over 90% for most items. Nonsampling errors are attributed to definitional problems, differences in interpretation of questions, incorrect reporting, inability to obtain information about all cases in the sample, and processing errors.

**Sources of Additional Material:** U.S. Bureau of the Census, *Construction Reports*, series C20, *Housing Starts*; C22, *Housing Completions*; C25, *New One-Family Houses Sold and For Sale*; and C27, *Price Index of New One-Family Houses Sold*.

**Source and Title:** U.S. Bureau of the Census, *Value of New Construction Put in Place*

**Tables:** 1262-1264.

**Universe, Frequency, and Types of Data:** Survey conducted monthly on total value of all construction put in place in the current month, both public and private projects. Construction values include costs of materials and labor, contractors' profits, overhead costs, cost of architectural and engineering work, and miscellaneous project costs. (Annual figures are aggregates of monthly estimates.)

**Type of Data Collection Operation:** Varies by type of activity: Total cost of private one-family houses started each month is distributed into value put in place using fixed patterns of monthly construction progress; using a multistage probability sample, data for private multifamily housing are obtained by mail from owners of multiunit projects. Data for residential additions and alterations are obtained in a quarterly survey measuring expenditures; monthly estimates are interpolated from quarterly data. Estimates of value of private nonhousekeeping, nonresidential buildings, and State and local government construction are obtained by mail from owners (or agents) for a probability sample of projects. Estimates of farm nonresidential construction expenditures are based on U.S. Department of Agriculture annual estimates of construction; public utility estimates are obtained from reports submitted to Federal regulatory agencies and from private utility companies; estimates for all other private construction (nonbuilding) are obtained by phasing F. W. Dodge contract award data; estimates of Federal construction are based on monthly data supplied by Federal agencies.

**Data Collection and Imputation Procedures:** See "Type of Data Collection Operation." Imputation accounts for approximately 20% of estimated value of construction each month.

**Estimates of Sampling Error:** CV estimates for private nonresidential building construction range from 3% for estimated value of industrial buildings to 10% for miscellaneous buildings. CV is approximately 2% for total new private nonresidential buildings.

**Other (nonsampling) Errors:** For directly measured data series based on samples, some nonsampling errors may arise from processing errors, imputations, and misunderstanding of questions. Indirect data series are dependent on the validity of the underlying assumptions and procedures.

**Sources of Additional Material:** U.S. Bureau of the Census, *Construction Reports*, series C30, *Value of New Construction Put in Place*.

**Source and Title:** U.S. Bureau of the Census, *Census of Housing*

**Tables:** 1283, 1284, and 1288.

**Universe, Frequency, and Types of Data:** Census of all occupied and vacant housing, excluding group quarters, conducted every 10 years as part of the decennial census (see section 1 above) to determine characteristics of U.S. housing.

**Type of Data Collection Operation:** For 1970, 1980, and 1990, a complete count of some housing items (e.g. Owned or rented, and value). In 1970, other items collected from 5% and 15% probability samples selected from two sets of detailed questions on housing (these two sets having some common items). In 1980, approximately 19% of the housing units were included in the sample; in 1990, approximately 17%.

**Data Collection and Imputation Procedures:** In 1970, a self-enumeration census using a mail-out/mail-back procedure was used in most areas. In 1980 and 1990, mail questionnaires were used in even more areas than in 1970, with personal interviews in the remainder. Followup for nonrespondents and identification of vacant units done by phone and personal visit.

**Estimates of Sampling Error:** Sampling errors for data are estimated for all items collected by sample and vary by characteristic and geographic area.

**Other (nonsampling) Errors:** Evaluation studies for 1980 estimated the underenumeration of occupied housing units at 1.5%. The missed rate in 1980 for all units was 2.6% or approximately 2.3 million units, 1 million of which were vacant housing units.

**Sources of Additional Material:** U.S. Bureau of the Census, *1980 Census of Population and Housing, The Coverage of Housing in the 1980 Census*, PHC80-E1, July 1985.

**Source and Title:** U.S. Bureau of the Census, *American Housing Survey*

**Tables:** See tables citing *American Housing Survey* in source notes.

**Universe, Frequency, and Types of Data:** Conducted nationally in the fall in odd numbered years to obtain data on the approximately 103 million occupied or vacant housing units in the U.S. (group quarters are excluded). Data include characteristics of occupied housing units, vacant units, new housing and mobile home units, financial characteristics, recent mover households, housing and neighborhood quality indicators, and energy characteristics.

**Type of Data Collection Operation:** The national sample was a multistage probability sample with about 51,300 units eligible for interview in 1987. Sample units, selected within 394 PSU's, were surveyed over a 5-month period.

**Data Collection and Imputation Procedures:** For 1987, the survey was conducted by personal interviews. The interviewers obtained the information from the occupants or, if the unit was vacant, from informed persons such as landlords, rental agents, or knowledgeable neighbors.

**Estimates of Sampling Error:** For the national sample, illustrations of the S.E. of the estimates are provided in the appendix B of the 1987 report. As an example, the estimated CV is about .5% for the estimated percentage of owner occupied units with 2 persons.

**Other (nonsampling) Errors:** Response rate was about 97%. Nonsampling errors may result from incorrect or incomplete responses, errors in coding and recording, and processing errors. For the 1985 national sample, approximately 6% of the total housing inventory was not adequately represented by the AHS sample.

**Sources of Additional Material:** U.S. Bureau of the Census, *Current Housing Reports*, series H-150 and H-170, *American Housing Survey*.

(See section 1 above for information pertaining to the Census of Population, section 15 pertaining to table 1260, and section 19 for table 1289.)

#### Section 27. MANUFACTURES

**Source and Title:** U.S. Bureau of the Census, *Census of Manufactures*

**Tables:** See tables citing *Census of Manufactures* in source notes in section 27 and also table 931 in section 18 and tables 1427 and 1431 in section 30.

**Universe, Frequency, and Types of Data:** Conducted every five years to obtain information on labor materials, capital input and output characteristics, plant location, and legal form of organization for all plants in the United States with one or more employees. Universe was 350,000 manufacturing establishments in 1987.

**Type of Data Collection Operation:** Complete enumeration of data items obtained from 200,000 firms. Administrative records from Internal Revenue Service and Social Security Administration are used for 150,000 smaller single-location firms, which were determined by various cutoffs based on size and industry.

**Data Collection and Imputation Procedures:** Five mail and telephone followups for larger nonrespondents. Data for small single-location firms (generally those with fewer than 10 employees) not mailed census questionnaires were estimated from administrative records of IRS and SSA. Data for nonrespondents were imputed from related responses or administrative records from IRS and SSA. Approximately 8% of total value of shipments was represented by fully imputed records in 1987.

**Estimates of Sampling Error:** Not applicable.

**Other (nonsampling) Errors:** Based on evaluation studies, estimates of nonsampling errors for 1972 were about 1.3% for estimated total payroll; 2% for total employment; and 1% for value of shipments. Estimates for later years are not available.

**Sources of Additional Material:** U.S. Bureau of the Census, *1987 Census of Manufactures, Industry Series, Geographic Area Series, and Subject Series*.

**Source and Title:** U.S. Bureau of the Census, *Annual Survey of Manufactures*

**Tables:** See tables citing *Annual Survey of Manufactures* in source notes.

**Universe, Frequency, and Types of Data:** Conducted annually to provide basic measures of manufacturing activity for intercensal years for all manufacturing establishments having one or more paid employees.

**Type of Data Collection Operation:** Sampling frame is 350,000 establishments in the 1987 Census of Manufactures (see above), supplemented by Social Security Administration lists of new manufacturers and new manufacturing establishments of multi-establishment companies identified annually by the Census Bureau's Company Organization Survey. A probability sample of 56,000 establishments is selected. All establishments of companies with more than \$500 million of manufacturing shipments in 1982 are included with certainty. All establishments with 250+ employees are also included with certainty along with a probability sample of smaller establishments.

**Data Collection and Imputation Procedures:** Survey is conducted by mail with phone and mail followups of nonrespondents. Imputation (for all nonresponse items) is based on previous year reports, or for new establishments in survey, on industry averages.

**Estimates of Sampling Error:** Estimated CV's for number of employees, new expenditure, and for value added totals are given in annual publications. For U.S. level industry statistics, most estimated CV's are 2% or less, but vary considerably for detailed characteristics.

**Other (nonsampling) Errors:** Response rate is about 85%. Nonsampling errors include those due to collection, reporting, and transcription errors, many of which are corrected through computer and clerical checks.

**Sources of Additional Material:** U.S. Bureau of the Census, *Annual Survey of Manufactures*, and Technical Paper 24.

#### Section 28. DOMESTIC TRADE AND SERVICES

**Source and Title:** U.S. Bureau of the Census, *Census of Wholesale Trade, Census of Retail Trade, Census of Service Industries*

**Tables:** See tables citing the above censuses in source notes in section 28 and tables 408 and 409 in section 7 and tables 1425, 1426, and 1431 in section 30.

**Universe, Frequency, and Types of Data:** Conducted every five years to obtain data on number of establishments, number of employees, total payroll size, total sales, and other industry-specific statistics. In 1982, universe was all employer establishments primarily engaged in wholesale trade, and employer and nonemployer establishments in retail trade or service industries. Currently for 1987, data are available for establishments with payroll for retail trade, wholesale trade, and services.

**Type of Data Collection Operation:** All wholesale firms with paid employees surveyed; all retail and service large employer firms surveyed (i.e. all employer firms above the payroll size cutoff established to separate large from small employers) plus a 10-percent sample of smaller employer firms. Firms with no employees were not required to file a census return.

**Data Collection and Imputation Procedures:** Mail questionnaire is utilized with both mail and telephone followups for nonrespondents. Data for nonrespondents and "nonselected" small employer firms in retail trade and service industries are obtained from administrative records of IRS and the Social Security Administration.

**Estimates of Sampling Error:** Not applicable.

**Other (nonsampling) Errors:** Response rate in 1987 of 80% for single establishment firms; 83% for multi-establishment firms. Item response ranged from 60% to 90% with higher rates for less detailed questions.

**Sources of Additional Material:** U.S. Bureau of the Census, Appendix A of *Census of Retail Trade; Census of Service Industries; Census of Wholesale Trade; and History of the 1982 Economic Censuses*, February 1987.

**Source and Title:** U.S. Bureau of the Census, *Current Business Surveys*

**Tables:** 1355-1358, 1373, 1380, 1381, and table 1022 in section 21.

**Universe, Frequency, and Types of Data:** Provides monthly estimates of retail sales by kind of business and geographic area, and end-of-month inventories of retail stores; wholesale sales and end-of-month inventories; and annual receipts of selected service industries.

**Type of Data Collection Operation:** Probability sample of all firms from a list frame and, additionally, for retail and service an area frame. The list frame is the Bureau's Standard Statistical Establishment List (SSEL) updated quarterly for recent birth Employer Identification (EI) Numbers issued by the Internal Revenue Service and assigned a kind-of-business code by the Social Security Administration. The largest firms are included monthly; a sample of others is included every three months on a rotating basis. The area frame covers businesses not subjected to sampling on the list frame.

**Data Collection and Imputation Procedures:** Data are collected by mail questionnaire with telephone followups for nonrespondents. Imputation made for each nonresponse item and each item failing edit checks.

**Estimates of Sampling Error:** For the 1989 monthly surveys, CV's are about .6% for estimated total retail sales, 1.7% for wholesale sales, 1.3% for wholesale inventories. For dollar volume of receipts, CV's from the *Service Annual Survey* vary by kind of business and range between 1.5% to 15.0%. Sampling errors are shown in monthly publications.

**Other (nonsampling) Errors:** Imputation rates are about 18% to 23% for monthly retail sales, 20% to 25% for wholesale sales, about 25% to 30% for monthly wholesale inventories and 14% for the *Service Annual Survey*.

**Sources of Additional Material:** U.S. Bureau of the Census, *Current Business Reports, Monthly Retail Trade, Monthly Wholesale Trade, and Service Annual Survey*.

#### Section 30. OUTLYING AREAS

(See section 2 for information pertaining to table 1417, section 22 for table 1429, section 27 for tables 1427 and 1431 and section 28 for tables 1425 and 1426.)



# Appendix IV Index to Tables Having Historical Statistics, Colonial Times to 1970 Series

[The most recent historical supplement to the *Statistical Abstract* is the bicentennial edition, *Historical Statistics of the United States, Colonial Times to 1970* (see inside back cover). Listed below are statistical time series (identified by number) appearing in this edition, for which tables in the *Statistical Abstract* present comparable figures. Historical series are listed only where related or comparable data are available for one or more years later than 1970. In a few instances, it may be necessary to combine figures shown in the *Abstract* to obtain totals comparable to the series shown in *Historical Statistics*]

Historical Statistics series	1991 Abstract table number	Historical Statistics series	1991 Abstract table number	Historical Statistics series	1991 Abstract table number	Historical Statistics series	1991 Abstract table number
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A 23-25. . . . .	13	C 149-157. . . . .	424	H 332-345. . . . .	604	K 4-7. . . . .	1109
A 29-41. . . . .	13	C 158-160. . . . .	312	H 346-354. . . . .	613	K 16. . . . .	1123
A 119-134. . . . .	22	C 296-331. . . . .	422	H 355-367. . . . .	612	K 82-113. . . . .	1114
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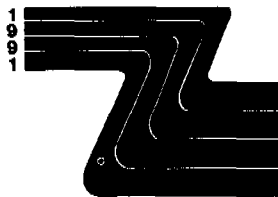


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