Appendix A.— AREA CLASSIFICATIONS

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USUAL PLACE OF RESIDENCE

In accordance with census practice dating back to 1790, each person enumerated in the 1970 census was counted as an inhabitant of his usual place of residence, which is generally construed to mean the place where he lives and sleeps most of the time. This place is not necessarily the same as his legal residence, voting residence, or domicile. In the vast majority of cases, however, the use of these different bases of classification would produce substantially the same statistics, although there may be appreciable differences for a few areas. (The Volume I reports contain a more complete discussion of the residence rules for certain categories of persons whose usual place of residence is not immediately clear.)

URBAN AND RURAL RESIDENCE

The urban population comprises all persons living in urbanized areas and in places of 2,500 inhabitants or more outside urbanized areas. More specifically, the urban population consists of all persons living in (a) places of 2,500 inhabitants or more incorporated as cities, villages, boroughs (except Alaska), and towns (except in the New England States, New York, and Wisconsin), but excluding those persons living in the rural portions of extended cities,¹ (b) unincorporated places of 2,500 inhabitants or more; and (c) other territory included in urbanized areas. The population not classified as urban constitutes the rural population. In table 4 the rural population by race may be obtained by subtraction. Characteristics of the rural population are shown in tables 12 and 13.

REGIONS AND DIVISIONS

For statistical presentation, the United States is sometimes divided into regions and geographic divisions. Generally, four regions are designated—Northeast, North Central, South, and West—but the first two are sometimes combined into one region, the North. The divisions are groups of States forming subdivisions of the regions.

COUNTIES

The primary divisions of the States are, in general, termed counties, but in Louisiana these divisions are known as parishes. There are no counties in Alaska. In this State, statistical areas called census divisions were developed for general statistical purposes through the cooperation of the State and the Census Bureau and are treated as county equivalents. In four States (Maryland, Missouri, Nevada, and Virginia), there are one or more cities which are independent of any county organization and thus constitute primary divisions of their States.

URBANIZED AREAS

An urbanized area, generally, consists of at least one city of 50,000 inhabitants or more in 1970 and the surrounding closely settled area that meets certain criteria of population density or land use. An urbanized area may be subdivided into the central city or cities, and the remainder of the area or "urban fringe." The central city portion, generally, consists of the population of the cities named in the title of the urbanized area.

STANDARD METROPOLITAN STATISTICAL AREAS

The Bureau of the Census recognizes 243 standard metropolitan statistical areas (SMSA's) in the United States and 4 in Puerto Rico, making a total of 247 in the 1970 census. These include the 231 SMSA's as defined and named in the Bureau of the Budget publication, Standard Metropolitan Statistical Areas: 1967, U.S. Government Printing Office, Washington, D.C. 20402. Since 1967 the Office of Management and Budget (formerly Bureau of the Budget) has added 16 SMSA's, of which two were defined in January 1968 and an additional 14 were defined in February 1971 on the basis of the results of the 1970 census. Changes in SMSA boundaries or titles made after February 1971 are not recognized in this report.

Except in the New England States, a standard metropolitan statistical area is a county or group of contiguous

¹ Extended cities are so designated because they have one or more large portions (normally at the boundary of the city) with relatively low population density. These portions are classified as rural, and the residents are not included in the urban population.

counties which contains at least one city of 50,000 inhabitants or more, or "twin cities" with a combined population of at least 50,000. In addition to the county, or counties, containing such a city or cities, contiguous counties are included in an SMSA if, according to certain criteria, they are socially and economically integrated with the central city. In a few SMSA's. where portions of counties outside the SMSA as defined in 1967 were annexed to the central city, the population living in those counties is not considered part of the SMSA. In the New England States, SMSA's consist of towns and cities instead of counties, Each SMSA must include at least one central city, and the complete title of an SMSA identifies the central city or cities. For a detailed description of the criteria used in defining SMSA's, see the Bureau of the Budget publication cited above.

The population living in SMSA's is designated as the metropolitan population. The population living outside SMSA's constitutes the nonmetropolitan population. The metropolitan population may be subdivided into those living in the central city or cities and those living in the balance of the SMSA.

STATE ECONOMIC AREAS AND ECONOMIC SUBREGIONS

Definition.—State economic areas are relatively homogeneous subdivisions of States. They consist of single counties or groups of counties which have similar economic and social characteristics (see map, page VI). The boundaries of these areas have been drawn in such a way that each State is subdivided into relatively few parts, with each part having certain significant characteristics which distinguish it from adjoining areas. A list of counties in each State economic area appears at the end of this appendix.

In the establishment of SEA's, factors in addition to industrial and commercial activities were taken into account. Demographic, climatic, physiographic, and cultural factors, as well as factors pertaining more directly to the production and exchange of agricultural and nonagricultural goods, were considered. The net result, then, is a set of areas intermediate in size between States, on the one hand, and counties, on the other, which are relatively homogeneous with respect to a large number of characteristics. Areas of this type are well adapted for use in a wide variety of studies in which State data are neither sufficiently refined nor homogeneous and in which the manipulation of county data presents real difficulty. Moreover, a standard set of areas, such as these, makes possible studies in widely different fields on a comparable area basis.

The State economic areas were originally delineated for the 1950 censuses. The grouping of the 3,103 counties or county equivalents in 1950 into State economic areas was the product of a special study sponsored by the Bureau of the Census in cooperation with the Bureau of Agricultural Economics and several State and private agencies. The delineation procedure was devised by Dr. Donald J. Bogue, then of the Scripps Foundation for Research in Population Problems, on loan to the Bureau of the Census.²

Originally 501 areas were delineated, but in the publications of the 1950 Census of Population, combinations of sparsely populated adjacent areas in the interests of increasing the stability of the sample one-year migration data reduced the number of areas to 453. In 1960, although no attempt was made to re-examine the original principles or to apply them to more recent data relating to homogeneity, the initial set of 501 areas was modified to recognize changes in the composition of certain SMSA's and to include for the first time State economic areas in Alaska and Hawaii. These modifications increased the number to 509. In 1970, the only change was the designation of Brown County, Wisconsin, as a metropolitan SEA, bringing the total to 510.

Relation to standard metropolitan statistical areas.-The combination of counties into State economic areas had been made for the entire country, and in this process the larger standard metropolitan statistical areas (those in 1960 with a central city of 50,000 or more and a total population of 100,000 more) were recognized or as metropolitan State economic areas.³ When a standard metropolitan statistical area was located in two or more States or economic subregions, each State part and each part in an economic subregion became a separate metropolitan State economic area. In New England this correspondence of metropolitan State economic areas and standard metropolitan statistical areas did not exist because State economic areas are composed of whole counties, whereas standard metropolitan statistical areas are built up from towns. Here a county with more than half its population in one or more standard

²For further discussion and materials on State economic areas and their uses, see U.S. Bureau of the Census, State Economic Areas, U.S. Government Printing Office, Washington, D.C., 1951.

³ In 1950 those standard metropolitan areas with a total population of 100,000 or more in 1940 were recognized as metropolitan State economic areas.

metropolitan statistical areas was classified as a metropolitan State economic area if the county or a combination of counties containing the standard metropolitan statistical area or areas had 100,000 inhabitants or more.

Economic subregions.—These areas represent combinations of State economic areas. The 510 State economic areas are consolidated into a set of 121 areas which cut across State lines but which, as intended, preserve to a great extent the homogeneous character of the State economic areas.

No statistics are presented in this report for the economic subregions. Figures on the population of the economic subregions by urban-rural residence appear in table 43 of the report **1970 Census of Population**, Volume 1, **Characteristics of the Population**, Part A or Part 1. The SEA's comprising the economic subregions are also shown in this table. Virtually all the statistics shown in this report may be obtained for the economic subregions through the consolidation of the statistics for SEA's.

List of Counties in Each State Economic Area

MAINE

AREA 1 Aroostook AREA 2 Franklin Oxford Penobscot Piscataquis Somerset

- AREA 3 Hancock Knox Lincoln Waldo Washington
- AREA 4 Androscoggin Kennebec Sagadahoc York
- AREA A Cumberland

NEW HAMPSHIRE

- AREA 1 Belknap Carroll Coos Grafton Sullivan
- AREA 2 Cheshire Merrimack Rockingham Strafford
- AREA A Hillsborough

VERMONT

- AREA 1 Addison Chittenden Franklin Grand Isle Orleans
- AREA 2 Bennington Caledonia Essex Lamoille Orange

AREA 2--Con. Rutland Washington Windham Windsor

VERMONT-Con.

MASSACHUSETTS

AREA 1 Franklin AREA 2 Barnstable Dukes Nantucket AREA A

Hampden Hampshire

AREA B Worcester AREA C Essex Middlesex

Norfolk Suffolk AREA D

Plymouth AREA E

Bristol AREA F Berkshire

RHODE ISLAND

AREA 1 Newport Washington

AREA A Bristol Kent Providence

CONNECTICUT

AREA 1 Litchfield AREA 2

Middlesex New London Tolland Windham CONNECTICUT-Con.

AREA A Fairfield AREA B New Haven AREA C

Hartford

NEW YORK

AREA 1 Orleans Wayne

AREA 2 Genesee Livingston Ontario Seneca Wyoming Yates

AREA 3 Allegany Cattaraugus Chautauqua Chemung Schuyler Steuben Tioga Tompkins

AREA 4 Cayuga Cortland

AREA 5 Fulton Hamilton Montgomery

AREA 6 Chenango Delaware Otsego Schoharie

AREA 7 Clinton Essex Franklin Jefferson Lewis St. Lawrence

AREA 8 Warren Washington NEW YORK-Con.

AREA 9 Columbia Dutchess Greene Orange Putnam Sullivan Ulster

ÁREA A Erie Niagara

AREA B Monroe

AREA C Madison Onondaga Oswego

AREA D Herkimer Oneida

AREA E Broome

AREA F Albany

Rensselaer Saratoga Schenectady

AREA G Bronx Kings Nassau New York Queens Richmond Rockland Suffolk

NEW JERSEY

Westchester

AREA 1 Hunterdon Middlesex Monmouth Somerset Sussex AREA 2 Cape May Cumberland Ocean AREA A Warren

NEW JERSEY-Con.

AREA B Essex Morris Union

AREA C Mercer

AREA D Burlington Camden Gloucester

AREA E Atlantic

AREA F Salem

AREA G Bergen

Passaic AREA H Hudson

PENNSYLVANIA

AREA 1 Armstrong Butler Crawford Lawrence McKean Mercer Venango Warren AREA 2 Bradford Potter Susquehanna Tioga Wayne Wyoming AREA 3 Cameron Clinton Elk Forest Lycoming Sullivan AREA 4

AREA 4 Clarion Clearfield Fayette Greene Indiana Jefferson

List of Counties in Each State Economic Area-Con.

PENNSYLVANIA-Con. AREA 5 Bedford Centre Fulton Huntingdon Juniata Mifflin Perrv Snyder Union AREA 6 Carbon Columbia Monroe Montour Northumberland Pike Schuylkill AREA 7 Adams Franklin Lebanon AREA A Erie AREA B Bucks Chester Delaware Montgomerv Philadelphia AREA C Lackawanna AREA D Allegheny Beaver Washington Westmoreland AREA E Cambria Somerset AREA F Blair AREA G Luzerne AREA H Cumberland Dauphin AREA J York

AREA K

Lancaster

PENNSYLVANIA-Con. AREA L Berks AREA M Lehigh Northampton OHIO AREA 1 Defiance Fulton Henry Ottawa Paulding Putnam Sandusky Van Wert Williams Wood AREA 2 Auglaize Crawford Hancock Hardin Logan Marion Mercer Seneca Union Wyandot AREA 3 Champaign Clinton Darke Delaware Fayette Madison Pickawav Preble Shelby Warren AREA 4 Ashland Erie Holmes Huron Medina Richland Wayne AREA 5 Ashtabula Columbiana

OHIO-Con. AREA 5-Con. Geauga Portage AREA 6 Carroll Coshocton Fairfield Guernsev Harrison Jefferson Knox Licking Morrow Muskingum Perrv Tuscarawas AREA 7 Adams Brown Clermont Highland Ross AREA 8 Athens Gallia Hocking Jackson Meigs Monroe Morgan Noble Pike Scioto Vinton Washington AREA A Lucas AREA B Franklin AREA C Greene Miami Montgomery AREA D Butler AREA E Cuyahoga Lake AREA F Summit AREA G Stark

OHIO-Con. AREA H Mahoning Trumbull AREA J Belmont AREA K Hamilton AREA L Lawrence AREA M Lorain AREA N Clarke AREA O Allen INDIANA AREA 1 Elkhart La Porte AREA 2 Fulton Jasper Kosciusko Marshall Newton Pulaski Starke AREA 3 Adams Blackford De Kalb Huntington Jay Lagrange Noble Steuben Wells Whitley AREA 4 Fayette Grant Henry Howard Madison Randolph Union Wayne AREA 5 Bartholomew Boone

INDIANA-Con.

AREA 5-Con. Decatur Hamilton Hancock Hendricks Johnson Putnam Rush Shelby Tipton AREA 6 Clay Daviess Gibson Greene Knox Morgan Owen Pike Posev Spencer Sullivan Warrick AREA 7 Brown Crawford Dubois Harrison Lawrence Martin Monroe Orange Perry Washington AREA 8 Dearborn Franklin Jackson Jefferson Jennings Ohio Ripley Scott Switzerland AREA 9 Benton Carroll Cass Clinton Fountain Miami Montgomery Parke Tippecanoe

List of Counties in Each State Economic Area-Con.

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INDIANA-Con.	ILLINO
AREA 9–Con.	AREA 4-
Vermillion	Calho
Wabash	Green
Warren	Jersey
White	Macou
AREA A Lake Porter AREA B	Monts Morga Pike Schuy Scott
St. Joseph AREA C Allen AREA D Marion AREA E Vanderburgh	AREA 5 Grund Kank Kend La Sa AREA 6
AREA F Clark Floyd AREA G Vigo	Cass Charr Chris Coles De W Doug
AREA H Delaware ILLINOIS	Edga Ford Iroqu Livin Loga McLe
AREA 1	Maso
Carroll	Mena
De Kalb	Moul
Jo Daviess	Piatt
Lee	Sheil
Ogle	Verm
Stephenson	Woo
Whiteside	AREA 7
AREA 2	Bond
Boone	Clint
AREA 3	Effir
Bureau	Faye
Fulton	Mon
Hancock	Rand
Henderson	Wash
Henry	AREA &
Knox	Clay
McDonough	Cum
Marshall	Ham
Mercer	Jasp
Putnam	Mari
Stark	Rich
Warren	Way
AREA 4	AREA S
Adams	Clar
Brown	Crav

IS-Con. -Con. ่งมท ne upin gomery: an yler idy. akee liat alle npaign stian s Vitt glas ar uois ngston an .ean on ard Itrie by nilion dford 7 d iton ngham ette nroe dolph hington 8 nberland nilton ber rion hland /ne 9 rk wford

ILLINOIS-Con. AREA 9-Con. Edwards

Gallatin Lawrence Wabash White AREA 10 Franklin Jefferson Perry Saline Williamson AREA 11

Alexander Hardin Jackson Johnson Massac Pope Pulaski Union

AREA A Rock Island

AREA B Winnebago AREA C Cook

Du Page Kane Lake McHenry Will

AREA D Peoria Tazewell

AREA E Sangamon

AREA F Madison St. Clair

AREA G Macon

MICHIGAN

AREA 1 Baraga Dickinson Gogebic Houghton Iron Keweenaw

MICHIGAN-Con.

AREA 1--Con. Marquette Ontonagon AREA 2 Alger

> Chippewa Delta Luce Mackinac Menominee Schoolcraft

AREA 3 Benzie Grand Traverse Leelanau Manistee Mason Oceana

AREA 4 Alcona Alpena Antrim Arenac Charlevoix Cheboygan Clare Crawford Emmet Gladwin losco Kalkaska Lake Mecosta Missaukee Montmorency Newaygo Ogemaw Osceola Oscoda Otsego Presque Isle Roscommon Wexford AREA 5 Gratiot

Gratiot Huron Isabella Midland Montcalm Sanilac Tuscola BEA 6

AREA 6 Allegan Berrien

MICHIGAN-Con.

AREA 6-Con. Muskegon Ottawa Van Buren AREA 7 Ionia Lapeer Livingston Shiawassee AREA 8 Monroe St. Clair AREA 9 Barry Branch Calhoun Cass Hillsdale Lenawee St. Joseph AREA A Saginaw AREA B Kent AREA C Bay AREA D Genesee AREA E Clinton Eaton Ingham AREA F Macomb Oakland Wayne AREA G Kalamazoo AREA H Jackson AREA J Washtenaw WISCONSIN AREA 1 Ashland Bayfield Burnett Florence

Forest

878877

List of Counties in Each State Economic Area-Con.

AREA 1-Con. Iron Langlade Lincoln Oneida Price Rusk Sawyer Vilas Washburn AREA 2 Barron **Buffalo** Dunn La Crosse Monroe Pepin Pierce Polk Richland St. Croix Sauk Trempealeau Vernon AREA 3 Crawford Grant Green Lowa Lafayette

WISCONSIN-Con.

AREA 4 Chippewa Clark Eau Claire Marathon Taylor Wood

AREA 5 Adams Jackson Juneau Marquette Portage Waushara

AREA 6 Door Kewaunee Marinette Menominee Oconto Shawano Waupaca

WISCONSIN-Con, AREA 7 Calumet Fond du Lac Manitowoc Outagamie Sheboygan Winnebago AREA 8 Columbia Dodge Green Lake Jefferson Ozaukee Rock Walworth Washington AREA A Douglas AREA B Dane AREA C Milwaukee AREA D Racine AREA E Waukesha AREA F Kenosha AREA G Brown MINNESOTA AREA 1 Clay Kittson Marshall Norman Pennington Polk Red Lake Roseau Wilkin AREA 2 Aitkin Beltrami

Cariton

Clearwater

Crow Wing

Hubbard

Cass

Cook

AREA 3 AREA 4 AREA 5 AREA 6 AREA 7

AREA 2-Con. Itasca Koochiching Lake Lake of the Woods Becker Douglas Mahnomen Otter Tail Todd Wadena Benton Chisago Isanti Kanabec Mille Lacs Morrison Pine Sherburne **Big Stone** Chippewa Grant Kandiyohi Lac qui Parle Pope Redwood Renville Stevens Swift Traverse Yellow Medicine Carver Dodge Goodhue McLeod Meeker Olmsted Rice Scott Stearns Steele Wabasha Winona Wright Blue Earth Brown Fillmore Freeborn Houston

MINNESOTA-Con.

MINNESOTA-Con. AREA 7-Con. Le Sueur Mower Nicollet Sibley Waseca AREA 8 Cottonwood Faribault Jackson Lincoln Lvon Martin Murray Nobles Pipestone Rock Watonwan AREA A St. Louis AREA B Anoka Dakota Hennepin Ramsey Washington IOWA AREA 1 Audubon Buena Vista Carroll Cass Cherokee Crawford Fremont Harrison Ida Lyon Mills Monona Montgomery O'Brien Page Plymouth Sac Shelby Sioux AREA 2 Boone Calhoun Clay Dallas

IOWA-Con.

AREA 2-Con. Dickinson Emmet Franklin Greene Hamilton Hancock Hardin Humboldt Kossuth Osceola Palo Alto Pocahontas Story Webster Wright AREA 3 Adair Adams Appanoose Clarke Davis Decatur Guthrie Jefferson Lucas Madison Marion Monroe Ringgold Taylor Union Van Buren Wapello Warren Wayne AREA 4 Allamakee Bremer Buchanan Butler Cerro Gordo Chickasaw Clayton Delaware Fayette Floyd Howard Mitchell Winnebago Winneshiek Worth AREA 5 Benton Grundy

App-7

List of Counties in Each State Economic Area-Con.

IOWA-Con. AREA 5-Con. Henry lowa Jasper Keokuk Mahaska Marshall Poweshiek Tama Washington AREA 6 Cedar Clinton Des Moines Dubuque Jackson Johnson Jones Lee Louisa Muscatine AREA A Woodbury AREA B Pottawattamie AREA C Polk AREA D Scott AREA E Black Hawk AREA F Linn MISSOURI AREA 1 Andrew Atchison Buchanan Carroll Clinton Holt Lafayette Nodaway Platte Ray Saline AREA 2 Adair Audrain Boone

MISSOURI-Con. AREA 2-Con. Caldwell Callaway Chariton Clark Daviess De Kalb Gentry Grundv Harrison Howard Knox Lewis Lincoln Linn Livingston Macon Marion Mercer Monroe Montgomery Pike Putnam Ralls Randolph Schuyler Scotland Shelby Sullivan Worth AREA 3 Barton Bates Cass Cedar Cooper Dade Henry Johnson Pettis St. Clair Vernon AREA 4 Barry Jasper Lawrence McDonald Newton AREA 5 Benton Camden Crawford Hickory Laclede Maries

MISSOURI-Con. AREA 5-Con. Miller Morgan Phelps Pulaski Washington AREA 6 Bollinger Cape Girardeau Cole Franklin Gasconade Moniteau Osage Perry Ste. Genevieve Warren AREA 7 Christian Dallas Douglas Howell Ozark Polk Stone Taney Texas Webster Wright AREA 8 Carter Dent Iron Madison Oregon Reynolds Ripley St. Francois Shannon Wayne AREA 9 Butler Dunklin Mississippi New Madrid Pemiscot Scott Stoddard AREA A Clay Jackson AREA B Jefferson St. Charles

MISSOURI-Con.

AREA B-Con. St. Louis St. Louis city AREA C

Greene

NORTH DAKOTA

AREA 1 Adams Billings Bowman Dunn Golden Valley Grant Hettinger McKenzie Mercer Morton Oliver Sioux Slope Stark AREA 2 Burke Burleigh Divide Emmons Kidder Logan **McIntosh** McLean Mountrail Sheridan Williams AREA 3 Barnes Benson Bottineau Cavalier Eddy Foster Griggs La Moure McHenry Nelson Pierce Ramsey Renville Rolette Steele Stutsman Towner Ward Wells

NORTH DAKOTA-Con.

AREA 4 Cass Grand Forks Pembina Traill Walsh AREA 5

Dickey Ransom Richland Sargent

SOUTH DAKOTA

AREA 1 Bennett Butte Corson Custer Dewey Fall River Haakon Harding Jackson Jones Lawrence Lyman Meade Mellette Pennington Perkins Shannon Stanley Todd Washabaugh Ziebach

> Beadle Brown Campbell Clark Day Edmunds Faulk

AREA 2

Edmunds Faulk Hand Hughes Hyde McPherson Marshall Potter Spink Sully Walworth

Name of

List of Counties in Each State Economic Area-Con.

SOUTH DAKOTA~Con.	NEBRASKA-Con.	NEBRASKA-Con.	KANSAS-Con.	KANSAS-Con.
AREA 3	AREA 1-Con.	AREA 5-Con.	AREA 1-Con.	AREA 5
Aurora	Thomas	Hamilton	Wailace	Butler
Bon Homme	Wheeler	Jefferson	Wichita	Chase
Brule		Polk	1	Chautauqua
Buffalo	AREA 2	Saline	AREA 2	Cowley
Charles Mix	Banner	Seward	Barton	Elk
Davidson	Box Butte	Thayer	Chevenne	Geary
Douglas	Chase	York	Decatur	Greenwood
-	Cheyenne	FOIR	Edwards	Lyon
Gregory	Deuel	AREA 6	Ellis	Morris
Hanson	Keith	Burt	Ellsworth	Pottawatomie
Hutchinson	Kimball	Cedar	Finney	Riley
Jerauld	Morrill	Cuming	Gove	Wabaunsee
McCook	Perkins	Dakota		
Miner	Scotts Bluff	Dixon	Graham	AREA 6
Sanborn		Dodge	Hodgeman	Atchison
Tripp	AREA 3	Thurston	Kiowa	Brown
AREA 4	Antelope	Washington	Lane	Doniphan
Brookings	Boone	Wayne	Lincoln	Douglas
	Boyd		Mitchell	Jackson
Codington	Buffalo	AREA 7	Ness	Jefferson
Deuel	Colfax	Cass	Osborne	Leavenworth
Grant	Custer	Gage	Pawnee	Nemaha
Hamlin	Dawson	Johnson	Pratt	
Kingsbury		Nemaha	Bawlins	AREA 7
Roberts	Greeley	Otoe	Rooks	Allen
AREA 5	Hall	Pawnee	Rush	Anderson
Clay	Howard	Richardson	Russell	Bourbon
•	Knox	Saunders		Coffey
Lake	Lincoln	Saunders	Sheridan	Franklin
Lincoln	Madison	AREA A	Sherman	Linn
Minnehaha	Merrick	Lancaster	Stafford	Miami
Moody	Nance		Thomas	Osage
Turner	Pierce	AREA B	Trego	Woodson
Union	Platte	Douglas	1	AREA 8
Yankton	Sherman	Sarpy	AREA 3	
	Stanton		Clay	Cherokee
	Valley		Cloud	Crawford
NEBRASKA	· ·	KANSAS	Dickinson	Labette
	AREA 4	KANSAS	Harper	Montgomery
AREA 1	Dundy	AREA 1	Harvey	Neosho
Arthur	Franklin	Barber	Kingman	Wilson
Blaine	Frontier	Clark	McPherson	AREA A
Brown	Furnas		Marion	Sedgwick
Cherry	Gosper	Comanche	Ottawa	AREA B
	Harlan	Ford		Johnson
Dawes	Hayes	Grant	Reno	Wyandotte
Garden	Hitchcock	Gray	Rice	
Garfield	Kearney	Greeley	Saline	AREA C
Grant	Nuckolls	Hamilton	Sumner	Shawnee
Holt		Haskell		
Hooker	Phelps	Kearny	AREA 4	
Keya Paha	Red Willow	Logan	Jewell	DELAWARE
Logan	Webster	Meade	Marshall	10514
Loup	AREA 5	Morton	Norton	AREA 1
McPherson	Adams	Scott	Phillips	Kent
Rock	Butler	Seward	Republic	Sussex
		Stanton	Smith	AREA A
Sheridan	Clay	Stevens	Washington	New Castle
Sioux	Fillmore	OLEVENS	Tranington	1 ,

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List of Counties in Each State Economic Area-Con.

VIRGINIA-Con.

AREA 2-Con.

MARYLAND

AREA 1 Allegany Garrett

AREA 2 Frederick Harford Washington AREA 3

Calvert Charles St. Marys

- AREA 4 Caroline Cecil Dorchester Kent Queen Annes Somerset Talbot Wicomico Worcester
- AREA A Anne Arundel Baltimore city Baltimore

AREA B Montgomery Prince Georges

AREA C Carroll Howard

DISTRICT OF COLUMBIA

AREA A Washington city

VIRGINIA

AREA 1 Buchanan Dickenson Lee Tazewell Wise Norton city

AREA 2 Bland Carroll Grayson Russell Scott

Smyth Washington Wythe Bristol city Galax city AREA 3 Alleghany Bath Botetourt Craig Floyd Giles Highland Montgomery Pulaski Rockbridge Buena Vista city **Clifton Forge city** Covington city Lexington city Radford city AREA 4 Augusta Clarke Frederick Page Rockingham Shenandoah Warren Harrisonburg city Staunton city Waynesboro city Winchester city AREA 5 Albemarle Culpeper Fauguier

Fauquier Greene Loudoun Madison Orange Prince William Rappahannock Spotsylvania Stafford Charlottesville city Fredericksburg city

AREA 6 Amelia Appomattox Bedford Buckingham Cumberland VIRGINIA-Con.

AREA 6—Con. Dinwiddie Fluvanna Goochland Louisa Nelson Nottoway Powhatan Prince Edward Bedford city Colonial Heights city Petersburg city

Brunswick Charlotte Franklin Halifax Henry Lunenburg Mecklenburg Patrick Pittsylvania Danville city Martinsville city South Boston city

AREA 8 Caroline **Charles Citv** Essex Gloucester Hanover James City King and Queen King George King William Lancaster Mathews Middlesex New Kent Northumberland Richmond Westmoreland Williamsburg city AREA 9

Accomack Northampton

AREA 10 Greensville Isle of Wight Nansemond Prince George Southampton Surry Sussex

VIRGINIA-Con.

AREA 10-Con. Emporia city Franklin city Hopewell city Suffolk city

AREA A Roanoke Roanoke city Salem city

AREA B Arlington Fairfax Alexandria city Fairfax city Falls Church city

AREA C Chesterfield Henrico Richmond city

AREA D Chesapeake city Norfolk city Portsmouth city Virginia Beach city

AREA E York Hampton city Newport News city

AREA F Amherst Campbell Lynchburg city

WEST VIRGINIA

AREA 1 Brooke Hancock Pleasants Tyler Wetzel Wood

AREA 2 Braxton Calhoun Clay Doddridge Gilmer Jackson Lewis Lincoln Mason Nicholas

WEST VIRGINIA-Con.

AREA 2-Con. Putnam Ritchie Roane Upshur Webster Wirt AREA 3 Barbour Harrison Marion Monongalia Preston Taylor AREA 4 Boone Fayette Logan McDowell Mercer Mingo Raleigh Wyoming AREA 5 Grant Greenbrier Hampshire Hardy Mineral Monroe Pendleton Pocahontas Randolph Summers Tucker AREA 6 Berkelev Jefferson Morgan AREA A Marshall Ohio AREA B Cabell Wayne AREA C Kanawha

NORTH CAROLINA

AREA 1 Alleghany Ashe

List of Counties in Each State Economic Area-Con.

AueryJohnstonForsythHorryCherokeeLeeAREA CMarionClaySampsonGuilfordWilliamsburgGrahamWarrenAREA CMarionHeywoodAREA 7MecklenburgBerkileyHardersonBertieAREA 8DorchestorJacksonChowanAREA 7MecklenburgBerkileyJacksonChowanAREA 7MecklenburgBerkileyMaisonGatesAREA 7MecklenburgBerkileyMathonGatesAREA 7GaorgetownAREAMathonHalifaxAREA 7GaorgetownAREA 7MathonHalifaxAREA 7GaorgetownAREA 7MathonHalifaxAREA 8ColletonAREA 7YanceyPerquimansSOUTH CAROLINALaxingtonYanceyPerquimansCoconeeAIkanAREA 2AREA 8PickensAIkanAREA 3WayneSpartanburgGreenvilleWilkesNashGreenvoodGreenvilleAREA 3WayneSpartanburgGerenvilleArranseWilsonAREA 3GeroliaWilkesRich 10FairfieldPoidArranseWilsonAREA 3GerenvilleArranseCumberlandLancasterCataosaCakwillAREA 9CharokeeAREA 1CranseCumberlandLancasterCataosaCaskweilCharokeeAREA 3DaeleS	ORTH	NA-Con.	GEORGIA-Cor
CherokeeLeeAREAMarionClaySampsonGuilfordAREA 8ClaySampsonGuilfordAREA 8HaywoodAREA 7MackinnburgBerkeleyJacksonBartieAREA EColletonMasonGatesWakeDorchesterMaisonGatesWakeDorchesterMaisonHalfaxAREA FGaorgetownMitchallHertfordDurhamJasperYanceyPerquimansSOUTH CAROLINALaxingtonYanceyWashingtonAREA 1AREA BAREA 2AREA 8DickensAlkenAlexanderEdgecombeAREA 2AREA 2AlexanderGreeneAndersonAreanBurkeEdgecombeAREA 3GreenwoodMitkesNashGreenwoodAREA 1Area 3WayneSpartanburgAlexanderWalingAREA 3GreenwoodAREA 3GeorgetownAlexanderGreenAndersonAlexanderFittLaurensGreenwoodAREA 3GreenwoodAlexanderGreenwoodAREA 3GreenwoodAREA 4FloydoAlexanderGuillonCharlestorAlexanderGreeneArea 3GerenvilleGardonArea 4BatowGravellGreeneArea 3GreeneArea 4GroopaCheckeeArea 5CurrbarlandHokeUnion <td>AREA B</td> <td></td> <td>AREA 3-Con.</td>	AREA B		AREA 3-Con.
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CastoffJonesInterpreterBanksLincolnJonesLeeBarrowPolkNew HanoverMarlboroCarrollRutherfordOnslowOrangeburgCherokeeUnionPamlicoSumterDouglas			Twiggs
Lincolin New Hanover Les Barrow Polk New Hanover Marlboro Carroll Rutherford Onslow Orangeburg Cherokee A Union Pender Douglas A		1	Washingto
Poix Onslow Orangeburg Carroll Rutherford Onslow Orangeburg Cherokee A Union Pamlico Sumter Douglas		}	Wilkinson
Union Pamlico Sumter Douglas		4	
Pender Douglas		1	AREA 6
	Sum	1	Bleckley
	AREA	ł	Burke
Franklin AREA A Dillon Franklin		j	Dodge
Harnett Buncombe Florence Hall		1	Jefferson

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List of Counties in Each State Economic Area-Con.

GEORGIA-Con.

GEORGIA-Con. AREA 6-Con. Jenkins Johnson Laurens Screven Telfair Treutlen Wheeler AREA 7 Baker Ben Hill Calhoun Clay Crisp Decatur Dooly Dougherty Early Grady Irwin Lee Macon Miller Mitchell Peach Pulaski Quitman Randolph Schley Seminole Stewart Sumter Terrell Tift Turner Webster Wilcox Worth AREA 8 Appling Atkinson Bacon Berrien Brooks

AREA 8-Con. Tattnall Thomas Toombs AREA 9 Brantley Bryan Camden Charlton Clinch Echols Effingham Glynn Liberty Long McIntosh Pierce Ware Wayne AREA A Walker AREA B Clayton Cobb De Kalb Fulton Gwinnett AREA C Chattahoochee Muscogee AREA D Richmond AREA E Chatham AREA F Bibb AREA G Houston FLORIDA AREA 1 Bay Calhoun Franklin Gulf Liberty

Okaloosa

Wakulla

Walton

Washington

FLORIDA-Con. AREA 2 Bradford Clav Dixie Levv Nassau Putnam St. Johns Taylor AREA 3 Alachua Baker Columbia Gadsden Gilchrist Hamilton Holmes Jackson Jefferson Lafayette Leon Madison Suwannee Union AREA 4 Brevard Flagler Indian River St. Lucie Volusia AREA 5 Citrus De Soto Hardee Hernando **Highlands** Lake Marion Osceola Pasco Polk Sumter AREA 6 Charlotte Collier Glades Hendry Lee Manatee Martin Monroe Okeechobee Sarasota

FLORIDA-Con.

AREA A Duval AREA B Hillsborough Pineilas

AREA C Dade AREA D Escambia

Santa Rosa AREA E

Orange Seminole AREA F

Palm Beach AREA G

Broward

KENTUCKY

AREA 1 Ballard Calloway Carlisle Fulton Graves Hickman McCracken Marshall

AREA 2 Daviess McLean Union Webster

AREA 3 Breckinridge Bullitt Butler Caldwell Crittenden Edmonson Grayson Green Hancock Hardin Hart Hopkins Larue Livingston Lyon Meade Muhlenberg

KENTUCKY-Con.

AREA 3-Con. Ohio Taylor AREA 4 Barren Christian Logan Simpson Todd Trigg Warren AREA 5 Adair Allen Casey Clinton Cumberland Lincoln Metcalfe Monroe Pulaski Rockcastle Russell Wayne AREA 6 Anderson Bath Boone Boyle Bracken Carroli Fleming Franklin Gallatin Garrard Grant Henry Madison Marion Mason Montgomery Nelson Nicholas Oldham Owen Pendleton Robertson Shelby Spencer Trimble Washington AREA 7 Bourbon Clark

Bulloch

Candler

Colquitt

Emanuel

Jeff Davis

Lowndes Montgomery

Coffee

Cook

Evans

Lanier

List of Counties in Each State Economic Area-Con.

KENTUCKY-Con. AREA 7-Con. Harrison Jessamine Mercer Scott Woodford AREA 8 Carter Clav Elliott Estill Greenup Jackson Laurel Lawrence í ee Lewis Magoffin Menifee Morgan Owsley Powell Rowan Wolfe AREA 9 Bell Breathitt Flovd Harlan Johnson Knott Knox Leslie Letcher McCreary Martin Perry Pike Whitley AREA A Jefferson AREA B Campbell Kenton AREA C Boyd AREA D

Henderson

AREA E Fayette TENNESSEE AREA 1 Crockett Dyer Fayette Gibson Hardeman Haywood Lake Lauderdale Madison Obion Tipton AREA 2 Benton Carroll Chester Decatur Hardin Henderson Henry McNairy Weakley AREA 3 Dickson Hickman Houston Humphreys Lawrence Lewis Perry Stewart Wayne AREA 4 Cheatham Montgomery Robertson Sumner AREA 5 Bedford Giles Lincoln Marshall Maury Moore

Rutherford Smith Trousdale Williamson Wilson

AREA 6 Cannon Clav Coffee

TENNESSEE - Con. AREA 6-Con. De Kalb Franklin Jackson Macon Overton Pickett Putnam Warren White AREA 7 Bledsoe Cumberland Fentress Grundv Marion Morgan Scott Sequatchie Van Buren AREA 8 Bradley Campbell Carter Claiborne Cocke Grainger Greene Hamblen Hancock Hawkins Jefferson Johnson Loudon McMinn Meigs Monroe Polk Rhea Roane Sevier Sullivan Unicol Union Washington AREA A Shelby AREA B Davidson AREA C

Hamilton

AREA D Anderson Blount Knox ALABAMA AREA 1 Colbert Lauderdale Lawrence Limestone Morgan AREA 2 Blount Cullman De Kalb Jackson Marshall AREA 3 Calhoun Cherokee Etowah St. Clair Shelby Talladega Walker AREA 4 Chambers Clay Cleburne Coosa Lee Randolph Tallapoosa AREA 5 Autauga Bibb Chilton Elmore Fayette Franklin Lamar Macon Marion Pickens Winston AREA 6 Bullock Dallas Greene Hale Lowndes

Marengo

TENNESSEE-Con.

ALABAMA-Con.

AREA 6-Con. Perrv Sumter Wilcox AREA 7 Choctaw Clarke Washington AREA 8 Baldwin Escambia AREA 9 Barbour Butler Coffee Conecuh Covington Crenshaw Dale Geneva Henry Houston Monroe Pike AREA A Jefferson AREA B Russell AREA C Montgomery AREA D Mobile AREA E Tuscaloosa AREA F Madison MISSISSIPPI AREA 1 Bolivar Coahoma Humphreys Issaquena Leflore Quitman Sharkey

Sunflower

Tunica

Tallahatchie

Washington

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List of Counties in Each State Economic Area-Con.

MISSISSIPPI-Con. MISSISSIPPI-Con. ARKANSAS-Con. AREA 2 AREA 6-Con. AREA 4-Con. Benton Montgomery Polk Carroll Neshoba Saline De Soto Newton Scott Grenada Rankin Sevier Holmes Scott AREA 5 Madison Simpson Columbia Marshall Smith Hempstead Panola Walthall Howard Tate Wayne Lafayette Yalobusha Webster Little River Yazoo Winston Miller AREA 3 AREA 7 Nevada Forrest Adams AREA 6 Amite George Ashley Claiborne Greene Bradley Copiah Lamar Calhoun Franklin Pearl River Clark Jefferson Perrv Cleveland Lincoln Stone Dallas Pike AREA 8 Drew Warren Hancock Grant Wilkinson Harrison Ouachita Jackson Union AREA 4 Alcorn AREA A AREA 7 Calhoun Hinds Arkansas Itawamba Clav Lafayette Craighead ARKANSAS Pontotoc Cross Prentiss Greene AREA 1 Tippah Jackson Benton Tishomingo Lawrence Washington Union Lonoke AREA 2 AREA 5 Monroe Crawford Poinsett Chickasaw Franklin Prairie Clav Johnson Woodruff Lee Logan Lowndes AREA 8 Pope Monroe Chicot Sebastian Noxubee Crittenden Yell Oktibbeha Desha AREA 3 Jefferson AREA 6 Conway Lee Attala Faulkner Lincoln Choctaw Independence Mississippi Clarke Randolph Phillips Covington Sharp St. Francis Jasper White Jefferson Davis AREA 9 Jones AREA 4 Baxter Kemper Garland Boone Lauderdale Hot Springs Carroll Lawrence Montgomery Cleburne Leake Perry Fulton Marion Pike Izard

AREA 9-Con. Madison Marion Newton Searcy Stone Van Buren AREA A Pulaski LOUISIANA AREA 1 Natchitoches Rapides **Red River** AREA 2 Catahoula Concordia East Carroll Franklin Madison Morehouse Richland Tensas West Carroll AREA 3 Avoyelles Evangeline Lafavette **Pointe Coupee** St. Landry AREA 4 Bienville Caldwell Clairborne Grant Jackson La Salle Lincoln Union Webster Winn AREA 5 East Feliciana Livingston Plaquemines St. Charles St. Helena St. Tammany Tangipahoa Washington

West Feliciana

ARKANSAS-Con.

LOUISIANA-Con.

AREA 6 Ascension Assumption Iberia Iberville Lafourche St. James St. John the Baptist St. Martin St. Mary Terrebonne West Baton Rouge AREA 7 Acadia Allen Cameron **Jefferson Davis** Vermilion AREA 8

AREA 8 Beauregard De Soto Sabine Vernon

AREA A Bossier Caddo

AREA B Jefferson Orleans St. Bernard

AREA C East Baton Rouge

AREA D Calcasieu

AREA E Ouachita

OKLAHOMA

AREA 1 Beaver Cimarron Custer Dewey Ellis Harper Roger Mills Texas Woods Woodward

List of Counties in Each State Economic Area-Con.

OKLAHOMA-Con.	OKLAHOMA-Con.	TEXAS-Con.	TEXAS-Con.	TEXAS~Con.
AREA 2	AREA 8	AREA 2Con.	AREA 5Con.	AREA 7Con.
Alfalfa	Haskell	Mason	Martin	Somervell
Blaine	McIntosh	Medina	Midland	Wise
Garfield	Muskogee	San Saba	Terry	
Grant	Okmulgee	Tom Green	Winkler	AREA 8
Kay	Sequoyah		Yoakum	Bell
Kingfisher	Wagoner	AREA 3		Delta
Major	-	Brooks	AREA 6	Fails
Noble	AREA 9	Dimmit	Baylor	Fannin
TAODIE	Atoka	Duval	Borden	Grayson
AREA 3	Latimer	Jim Hogg	Brown	Hill
Craig	Le Flore	Kenedy	Callahan	Hunt
Mayes	McCurtain	Kleberg	Childress	Kaufman
Nowata	Pittsburg	La Salle	Clay	Lamar
Ottawa	Pushmataha	McMullen	Coleman	Limestone
	AREA 10	Maverick	Collingsworth	Milan
Rogers	Adair	Starr	Cottle	Navarro
Washington		Webb	Dickens	Rockwall
AREA 4	Cherokee	Zapata	Donley	Williamson
Beckham	Delaware	Zavala	Fisher	Withdriaoff
	AREA A	2.87818	Foard	AREA 9
Caddo	Tulsa	AREA 4	Garza	Bastrop
Comanche	Osage	Armstrong	Hall	Brazos
Cotton	-	Briscoe	Hardeman	Burleson
Grady	AREA B	Carson	Haskell	Freestone
Greer	Cleveland	Castro	Kent	Grimes
Harmon	Oklahoma	Dallam	King	Lee
Jackson	AREA C	Deaf Smith	Knox	Leon
Kiowa	Creek	Floyd		Madison
Tillman			Mitchell	Robertson
Washita	AREA D	Gray Hale	Motley	nobertson
	Canadian		Nolan	AREA 10
AREA 5	1	Hansford	Runnels	Caldwell
Garvin	TEXAS	Hartley	Scurry	Fayette
Lincoln		Hemphill	Shackelford	Gonzales
Logan	AREA 1	Hutchinson	Stephens	Guadalupe
McClain	Brewster	Lipscomb	Stonewall	Lavaca
Pawnee	Culberson	Moore	Throckmorton	Washington
Payne	Hudspeth	Ochiltree	Wheeler	-
Pottawatomie	Jeff Davis	Oldham	Wilbarger	AREA 11
	Loving	Parmer	Young	Aransas
AREA 6	Pecos	Roberts	AREA 7	Atascosa
Coal	Presidio	Sherman	Bosque	Bee
Hughes	Reeves	Swisher	Burnet	De Witt
Okfuskee	Ward		Comanche	Frio
Pontotoc	AREA 2	AREA 5	Cooke	Goliad
Seminole		Andrews		Jim Wells
	Bandera	Bailey	Coryell	Karnes
AREA 7	Blanco	Cochran	Eastland	Live Oak
Bryan	Coke	Crane	Erath	Refugio
Carter	Comai	Crosby	Hamilton	San Patricic
Choctaw	Concho	Dawson	Hood	Wilson
Jefferson	Gillespie	Ector	Jack	
John ston	Hays	Gaines	Lampasas	AREA 12
Love	Kendall	Hockley	Mills	Anderson
Marshall	Kerr	Howard	Montague	Bowie
Murray	Llano	Lamb	Palo Pinto	Camp
Stephens	McCulloch	Lynn	Parker	Cass

.

List of Counties in Each State Economic Area-Con.

TEXAS-Con.	TEXAS-Con.	TEXAS-Con.	MONTANA-Con.	IDAHO-Con.
AREA 12Con.	AREA 16-Con.	AREA P	AREA 3–Con.	AREA 4
Cherokee	Glasscock	Jones	Stillwater	Bannock
Franklin	Irion	Taylor	Yellowstone	Bear Lake
Gregg	Kimble		AREA 4	Bingham
Harrison	Kinney		Carter	Bonneville
Henderson	Menard	MONTANA	Custer	Caribou
Hopkins	Reagan	AREA 1	Garfield	Franklin
Houston	Real	Beaverhead		Fremont
Marion	Schleicher	Broadwater	Golden Valley	Jefferson
Morris	Sterling	Deer Lodge	Musselshell	Madison
Nacogdoches	Sutton	Flathead	Petroleum	Oneida
Panola	Terrell	Gallatin	Powder River	Power
Rains	Upton		Rosebud	Teton
Red River	Uvalde	Granite	Sweet Grass	
Rusk	Val Verde	Jefferson	Treasure	
Shelby		Lake	Wheatland	WYOMING
Smith	AREA A	Lewis and Clark		45544
Titus	El Paso	Lincoln	IDAHO	AREA 1
Upshur	AREA B	Madison	IDANO	Albany
Van Zandt		Meagher	AREA 1	Carbon
Wood	Johnson	Mineral	Adams	Lincoln
	Tarrant	Missoula	Blaine	Natrona
AREA 13	AREA C	Part	Boise	Sublette
Angelina	Collin	Powell	Bonner	Sweetwater
Hardin	Dallas	Ravalli	Boundary	Teton
Jasper	Ellis	Sanders	Butte	Uinta
Montgomery		Silver Bow		AREA 2
Newton	AREA D	Yellowstone National	Camas Clark	Big Horn
Polk	McLennan	Park (part)		Campbell
Sabine	AREA E		Clearwater Custer	Converse
San Augustine	Travis	AREA 2		Crook
San Jacinto		Blaine	Elmore	Fremont
Trinity	AREA F	Cascade	Idaho	Goshen
Tyler	Bexar	Chouteau	Lemhi	Hot Springs
Walker	AREA G	Daniels	Shoshone	Johnson
ADEA 14	Harris	Dawson	Valley	Laramie
AREA 14		Fallon		Niobrara
Austin	AREA H	Fergus	AREA 2	Park
Brazoria	Jefferson	Glacier	Benewah	Platte
Calhoun	Orange	Hill	Kootenai	Sheridan
Chambers	AREA J	Judith Basin	Latah	Washakie
Colorado	Potter	Liberty	Lewis	Weston
Fort Bend	Randall	McCone	Nez Perce	Weston
Jackson	nandan	Phillips		
Liberty	AREA K	Pondera	AREA 3	COLORADO
Matagorda	Archer	Prairie	Ada	
Victoria	Wichita	Richland	Canyon	AREA 1
Waller	AREA L	Roosevelt	Cassia	Chaffee
Wharton		Sheridan	Gem	Clear Creek
AREA 15		Teton	Gooding	Eagle
Cameron	AREA M	Toole	Jerome	Garfield
Hildalgo	Galveston	Valley	Lincoln	Gilpin
Willacy	AREA N	Wibaux	Minidoka	Grand
-	Nueces		Owyhee	Gunnison
AREA 16		AREA 3	Payette	Hinsdale
Crockett	AREA O	Big Horn	Twin Falls	Jackson
Edwards	Denton	Carbon	Washington	Lake

List of Counties in Each State Economic Area-Con.

COLORADO-Con.

COLORADO-Con. AREA 1-Con. Mineral Moffat Ouray Park Pitkin **Rio Blanco** Routt San Juan Summit Teller AREA 2 Alamosa Archuleta Coneios Costilla Delta Dolores La Plata Mesa Montezuma Montrose Rio Grande Saguache San Miguel AREA 3 Larimer Logan Morgan Sedgwick Weld AREA 4 Cheyenne Douglas Elbert Kiowa Kit Carson Lincoln Phillips Washington

AREA 5 Baca Bent Crowley Custer Fremont Huerfano Las Animas Otero Prowers

Yuma

AREA A Adams Arapahoe Denver Jefferson AREA B El Paso AREA C Pueblo AREA D Boulder NEW MEXICO AREA 1 Catron Los Alamos McKinley **Rio** Arriba Sandoval San Juan Santa Fe Taos Valencia AREA 2 Colfax Curry De Baca Guadalupe Harding Mora Quav Roosevelt San Miguel Torrance Union AREA 3 Chaves Dona Ana Eddy Grant Hidalgo Lea Lincoln Luna Otero Sierra Socorro

> AREA A Bernalillo

ARIZONA AREA 1 Apache Coconino Gila Mohave Navajo Yavapai AREA 2 Cochise Graham Greenlee Pinal Santa Cruz Yuma AREA A Maricopa AREA B Pima

UTAH

AREA 1 Box Elder Cache Morgan Rich Sanpete Sevier Summit Wasatch AREA 2 Davis Utah AREA 3 Beaver Carbon Daggett Duchesne Emerv Garfield Grand Iron Juab Kane Millard Piute San Juan Topele Uintah Washington Wayne AREA A Salt Lake

UTAH-Con. AREA B Weber NEVADA AREA 1 Churchill Douglas Elko Esmeralda Eureka Humboldt Lander Lincoln Lyon Mineral Nye Pershing Storey Washoe White Pine Carson City city AREA A Clark WASHINGTON AREA 1 Clallam Grays Harbor Jefferson Mason Pacific Wahkiakum AREA 2 Island San Juan Skagit Whatcom AREA 3 Kitsap AREA 4 Cowlitz Lewis Skamania Thurston AREA 5

Chelan Okanogan AREA 6 Benton Kittitas WASHINGTON-Con.

AREA 6--Con. Kiickitat Yakima

AREA 7 Adams Asotin Columbia Douglas Franklin Garfield Grant Lincoln Walla Walla Whitman AREA 8 Ferry Pend Oreille Stevens AREA A King AREA B Pierce AREA C Clark AREA D Spokane AREA E Snohomish OREGON AREA 1 Clatsop Columbia Coos Curry Douglas Jackson Josephine Lincoln Tillamook AREA 2 Benton Hood River Linn Marion Polk Yamhill

AREA 3 Gilliam Morrow Sherman

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List of Counties in Each State Economic Area-Con.

CALIFORNIA CALIFORNIA-Con. OREGON-Con. CALIFORNIA-Con. AREA 3-Con. AREA 1 AREA 6 AREA 9-Con. Siskiyou Umatilla Del Norte Kings Trinity Wasco Humboldt Madera Tuolumne Lake Tulare AREA 4 Mendocino AREA A AREA 7 Baker AREA 2 Alameda Ventura Crook Napa Contra Costa Deschutes Sonoma AREA 8 Marin Grant Imperial AREA 3 San Francisco Harney San Mateo Monterey AREA 9 Jefferson San Benito Solano Klamath Alpine San Luis Obispo Amador Lake AREA B Santa Cruz Malheur Calaveras Santa Clara AREA 4 El Dorado Union AREA C Butte Wallowa Inyo Colusa Sacramento Lassen Wheeler Glenn Mariposa AREA D Sutter AREA A Modoc San Joaquin Tehama Mono Clackamas AREA E Yolo Nevada Multnomah Fresno Yuba Placer Washington AREA 5 AREA F Plumas AREA B Merced Shasta Los Angeles Lane Stanislaus Sierra Orange

CALIFORNIA-Con.

AREA G San Diego AREA H Riverside San Bernardino

AREA J Kern

AREA K Santa Barbara

ALASKA

AREA 1 All census divisions

HAWAII

AREA 1 Hawaii Kauai Maui AREA A

Honolulu

Appendix B. — DEFINITIONS AND EXPLANATIONS OF SUBJECT CHARACTERISTICS

SOCIAL CHARACTERISTICS	App-19
Age	App-19
Race	App-19
Nativity, place of birth and parentage	Арр-19
Mother tongue	App-20
Spanish heritage	App-20
Spanish origin or descent	App-20
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Years of school completed	App-21
Marital status	••
Household, group quarters, and relationship to house- hold head	
Married couple, family and unrelated individual	Арр-23
Children ever born	App-24
ECONOMIC CHARACTERISTICS	App-24
Employment status	••
Weeks worked in 1969	App-25
Occupation, industry, and class of worker	
Income	
Poverty status	
FACSIMILES OF THE 1970 CENSUS QUESTIONS AND RESPONDENT INSTRUCTIONS	Ann-33

SOCIAL CHARACTERISTICS

AGE

The data on age were derived from answers to questions 5, 6, and 7, which were asked of all persons (see facsimiles of questionnaire items and instructions on page App-33). Only the information in items 6 and 7 was read into the computer, Answers in item 5, which was not FOSDIC readable, were used during field review to fill any blanks in items 6 and 7. The age classification is based on the age of the person in completed years as of April 1, 1970. The data on age represent the difference, as calculated in the computer, between date of birth and April 1, 1970.

Median age.—The median age is that age which divides the distribution into two equal parts, one half being older than the median age and one half younger. When the median falls in the terminal category of an age distribution, the method of presentation is to show the initial age of the terminal category followed by a plus sign; thus, if the median falls in the category "75 years and over," it is shown as "75+."

RACE

The data on race were derived from answers to question 4, which was asked of all persons (see facsimile of questionnaire item on page App-33). The concept of race as used by the Bureau of the Census does not denote clear-cut scientific definitions of biological stock. Rather it reflects selfidentification by respondents. Since the 1970 census obtained information on race primarily through selfenumeration, the data represent essentially self-classification by people according to the race with which they identify themselves.

For persons of mixed parentage who were in doubt as to their classification, the race of the person's father was used. In 1960, persons who reported mixed parentage of white and any other race were classified according to the other race; mixtures of races other than white were classified according to the race of the father.

The category "white" includes persons who indicated their race as white, as well as persons who did not classify themselves in one of the specific race categories on the questionnaire but entered Mexican, Puerto Rican, or a response suggesting Indo-European stock.

The category "Negro" includes persons who indicated their race as Negro or Black, as well as persons who did not classify themselves in one of the specific race categories on the questionnaire but who had such entries as Jamaican, Trinidadian, West Indian, Haitian, and Ethiopian.

If the race entry was missing on the questionnaire for a member of a household, an answer was assigned in the computer according to the race of other household members, using specific rules of precedence of relationship. If race was not entered for anyone in the household, the race of the head of the preceding household was assigned. This procedure is a variation of the general allocation process described in the section on "Accuracy of the Data."

NATIVITY, PLACE OF BIRTH, AND PARENTAGE

The data on nativity, place of birth, and parentage were derived from answers to questions 13, 14, and 15 (see facsimiles of questionnaire items and instructions on pages App-34 and 37).

The category "native" comprises persons born in the United States, the Commonwealth of Puerto Rico or an outlying area of the United States, or at sea. Also included in this category is the small number of persons who, although they were born in a foreign country, have at least one native American parent. The category "foreign born" includes all persons not classified as native. The category "native of native parentage" comprises native persons both of whose parents are also natives of the United States. "Native of foreign or mixed parentage" comprises native persons one or both of whose parents are foreign born.

The native population is further

classified into the following four groups: persons born in the State in which they were residing at the time of the census; persons born in a different State; persons born abroad of American parents, or at sea or in an outlying area of the United States; and persons whose State of birth was not reported. Respondents were instructed to report place of birth in terms of the mother's usual State of residence at the time of the birth rather than in terms of the location of the hospital if the birth occurred in a hospital. More detailed classifications of the native population of each State, by area of birth, are presented in the Detailed Characteristics reports (PC(1)-D).

MOTHER TONGUE

The data on mother tongue were derived from answers to question 17 (see facsimiles of questionnaire item and instructions, pages App-34 and 37). The question related to the language spoken in the person's home when he was a child and was asked of all persons in the 15-percent sample. Information on mother tongue is used to assist in the identification of the various ethnic groups in the population. In particular, the Spanish language population is defined primarily on this basis. Statistics on mother tongue are also employed to identify geographic areas of the United States which have a high proportion of children living in households where English is not the major language. The data on mother tongue may not reflect a person's current language skills since the vast majority of persons reporting a mother tongue other than English have learned to speak English during or after their childhood.

SPANISH HERITAGE

In this report, social and economic characteristics are presented for the population of Spanish heritage, which is identified in various ways, using information derived from the 15percent sample. In 42 States and the District of Columbia, this population is identified as "Persons of Spanish language;" in five Southwestern States, as "Persons of Spanish language or Spanish surname;" and in the three Middle Atlantic States, as "Persons of Puerto Rican birth or parentage." The specific definitions involved in identifying these population groups are given below.

Spanish language.—Persons of Spanish language comprise persons of Spanish mother tongue and all other persons in families in which the head or wife reported Spanish as his or her mother tongue.

Spanish surname.-In five Southwestern States (Arizona, California, Colorado, New Mexico, and Texas) persons with Spanish surnames were identified by means of a list of over 8,000 Spanish surnames originally compiled by the Immigration and Naturalization Service¹ (and later updated by the Bureau of the Census). In the five Southwestern States social and economic characteristics are presented for persons of Spanish language combined with all other persons of Spanish surname. The number of these additional persons is shown in the category "Other persons of Spanish surname."

Puerto Rican birth or parentage.—The population of Puerto Rican birth or parentage includes persons born in Puerto Rico and persons born in the United States or an outlying area with one or both parents born in Puerto Rico. Social and economic characteristics are shown for this group in the SEA's for New York, New Jersey, and Pennsylvania.

SPANISH ORIGIN OR DESCENT

The data on Spanish origin or descent were derived from answers to question 13b, which appeared on the 5-percent sample questionnaire (see facsimile of questionnaire item, page App-34). A person was classified as being of Spanish origin or descent if his or her entry for this question was any of the following: Mexican, Puerto Rican, Cuban, Central or South American, or "Other Spanish."

For certain areas, the number of persons of Spanish origin or descent is overstated because some respondents apparently misunderstood the question and interpreted "Central or South American" to mean central or southern United States. Available evidence suggests that this misinterpretation resulted in an overstatement which was substantial in some southern States and may have occurred, to a lesser degree, in States in the central area of the country.

SCHOOL ENROLLMENT AND YEAR OF SCHOOL IN WHICH ENROLLED

The data on school enrollment were derived from answers to question 20 (see facsimiles of questionnaire item and instructions, pages App-34 and 37).

¹U.S. Immigration and Naturalization Service, Supplement to Manual of Immigration, Spanish-Spanish Personal Names, selected by Inspector George Lockwood, New York, 1936.

This question was asked of all persons in the 15-percent sample and tabulated for persons 3 years old and over. The data on year of school in which enrolled were obtained from responses, for those who were enrolled, to the question on highest grade attended, question 21 (see facsimiles of questionnaire item and instructions, pages App-34 and 37).

Schooling included,-Persons were included as enrolled in school if they reported attending a "regular" school or college at any time between February 1, 1970, and the time of enumeration. According to the census definition, "regular" schooling refers to formal education obtained in public and private (denominational or nondenominational) nursery schools, kindergartens, elementary and secondary schools, colleges, universities, or professional schools, whether day or night school, and whether attendance was full time or part time. That is, "regular" schooling is that which may advance a person toward an elementary school certificate or high school diploma, or a college, university, or professional degree. Schooling that was not obtained in a regular school and schooling from a tutor or through correspondence courses were counted only if the credits obtained were regarded as transferable to a school in the regular school system. Persons were included as enrolled in nursery school only if the school included instruction as an important and integral phase of its program. Persons who had been enrolled in a regular school since February 1, 1970, but who had not actually attended, for example because of illness, were counted as enrolled in school,

In general, a "public" school is de-

fined as any school which is controlled and supported primarily by a local, State, or Federal government agency.

Schooling excluded.—Persons were excluded from the enrollment figures if the only schools they had been attending at any time since February 1, 1970, were not "regular" (unless courses taken at such schools could have been counted for credit at a regular school). Schooling which is generally regarded as not "regular" includes that given in nursery schools which simply provide custodial day care, in specialized vocational, trade, or business schools, in on-the-job training, and through correspondence courses.

Level and year of school in which enrolled.-Persons who were enrolled in school were classified according to the level and year of school in which they were enrolled. The levels which are separately identified in this report are nursery school, kindergarten, elementary school, high school, and college. Elementary school, as defined here, includes grades 1 to 8 and high school includes grades 9 to 12. If a person was attending a junior high school, the equivalent in terms of 8 years of elementary school and 4 years of high school was obtained. (See the section on "Years of school completed" for a discussion of variations in school organization.) The term "college" includes junior or community colleges, regular 4-year colleges, and graduate or professional schools.

Enumeration of college students.--College students were enumerated in the 1950, 1960, and 1970 censuses where they lived while attending college whereas in most earlier censuses they were enumerated at their parental home.

YEARS OF SCHOOL COMPLETED

The data on years of school completed were derived from answers to questions 21 and 22 (see facsimiles of questionnaire items and instructions, pages App-34 and 37).

These questions on educational attainment applied only to progress in "regular" schools, as defined above. Both questions were tabulated for all persons 3 years of age and over in the 20-percent sample.

Highest grade of school attended.-The first question called for the highest grade attended, regardless of "skipped" or "repeated" grades. In some areas in the United States, the school system formerly had 11 years of school (7 years of elementary school and 4 years of high school) rather than the more conventional 12 years (8 years of elementary school and 4 years of high school, or equivalent years in the elementary-junior high-senior high school system). Persons who had progressed beyond the 7th grade in this type of school system were treated as though they had progressed beyond the 8th grade of elementary school.

Persons whose highest grade of attendance was in a foreign school system, or in an ungraded school whose highest level of schooling was measured by "readers," or whose training was received through a tutor were instructed to report the approximate equivalent grade in the regular United States school system.

Completion of grade.-The second question on educational attainment

asked whether or not the highest grade attended had been finished. It was to be answered "Yes" if the person had successfully completed the entire grade or year indicated in response to the previous question. If the person had completed only a half grade or semester, or had dropped out or failed to pass the last grade attended, the question was to be answered "No." If the person was still attending school in that grade, he answered "Now attending."

MARITAL STATUS

The data on marital status were derived from question 8 (see facsimiles of questionnaire item and instructions on page App-33).

This question was asked of all persons. The marital status classification refers to the status at the time of enumeration. Persons classified as "married" consist of those who have been married only once and those who remarried after having been widowed or divorced. Persons reported as separated (either legally separated or otherwise absent from their spouse because of marital discord) are classified as a subcategory of married persons. Persons in common-law marriages are classified as married, and persons whose only marriage had been annulled are classified as never married.

A woman is classified as "married, husband present" if her husband is living in the same household, even though he may have been temporarily absent on business, on vacation, or in a hospital at the time of enumeration. Women "ever married" are those in the categories married (including separated), widowed, and divorced.

HOUSEHOLD, GROUP QUARTERS, AND RELATIONSHIP TO HOUSEHOLD HEAD

The data on household relationship and group quarters were derived from answers to question 2 and from information on type of living quarters (see facsimiles of questionnaire item and instructions, page App-33).

The question on household relationship was asked of all persons. The item on type of unit was filled in the census office for each household.

Household.—A household includes all the persons who occupy a group of rooms or a single room which constitutes a housing unit. A group of rooms or single room is regarded as a housing unit when it is occupied as separate living quarters, that is, when the occupants do not live and eat with any other persons in the structure, and when there is either {1} direct access from the outside of the building or through a common hall or (2) complete kitchen facilities for the exclusive use of the occupants of the household.

Relationship to head of household.— Four categories of relationship to head of household are recognized in this report.

1. *Head of household.*—One person in each household is designated as the "head," that is, the person who is regarded as the head by the members of the household. However, if a married woman living with her husband was reported as the head, her husband was considered the head for the purpose of simplifying the tabulations. Two types of household head are distinguished—the head of a family and a primary individual. A family head is a household head living with one or more persons related to him by blood, marriage, or adoption. A primary individual is a household head living alone or with nonrelatives only.

2. Wife of head.—A woman married to and living with a household head, including women in common-law marriages as well as women in formal marriages. The number of women in this category may not always be the same as the number of "husband-wife households" and the number of "husband-wife families," because of minor differences in the weighting of the data.

3. Other relative of head.—All persons related to the head of the household by blood, marriage, or adoption except "wife of head."

4. Not related to head.—All persons in the household not related to the head by blood, marriage, or adoption. Roomers, boarders, lodgers, partners, resident employees, wards, and foster children are included in this category.

Group quarters.—All living arrangements other than households are classified by the Bureau of the Census as group quarters. Persons living in group quarters are shown in this report as either "inmate of institution" or "other group quarters" defined as follows:

Inmate.-Persons under care or custody at the time of enumeration

in homes, schools, hospitals or wards for juveniles, the physically handicapped, or the mentally handicapped; homes or hospitals for mental, tuberculosis, or other chronic disease patients; homes for unwed mothers; nursing, convalescent, and rest homes; homes for the aged and dependent; and correctional institutions are enumerated as "patient or inmate" of an institution-regardless of their length of stay in that place and regardless of the number of people in the particular place. These persons are all shown in the tabulations as "inmate of institution."

Other group quarters. -A separate living quarters is called a group quarters if there are five or more persons unrelated to the head or, if there is no designated head, six or more unrelated persons in the unit. Places that fall into this category are rooming and boarding houses, communes, workers' dormitories, and convents or monasteries.

Persons residing in certain other types of living arrangements are classified as living in group quarters, regardless of the number or relationship of people in the unit. These include persons residing in military barracks, on ships, in college dormitories, or in sorority and fraternity houses; patients in short-term medical and surgical wards of hospitals who have no usual residence elsewhere; staff members in institutional quarters; and persons enumerated in missions, flophouses, Salvation Army shelters, railroad stations, etc. These people are shown in the tabulations as "in other group quarters."

MARRIED COUPLE, FAMILY, AND UNRELATED INDIVIDUAL

Married Couple

In the 1970 census, a married couple is defined as a husband and his wife enumerated as members of the same household. Statistics on married couples were compiled in 1970 only for persons in sample housing units. The number of married couples, as shown in this report, is identical to the number of married men with wife present. By definition, the number of married couples in any area should also be identical to the number of married women with husband present; however, the two figures may not be exactly the same in this report, because the methods used to inflate the sample sometimes gave different weights for husbands than for their wives,

Family and Subfamily

According to 1970 census definitions, a family consists of a household head and one or more other persons living in the same household who are related to the head by blood, marriage, or adoption; all persons in a household who are related to the head are regarded as members of his (her) family. A "husband-wife family" is a family in which the head and his wife are enumerated as members of the same household. Not all households contain families, because a household may be composed of a group of unrelated persons or one person living alone.

A subfamily is a married couple with or without children, or one parent with one or more single children under 18 years old, living in a household and related to, but not including, the head of the household or his wife. The most common example of a subfamily is a young married couple sharing the home of the husband's or wife's parents. Members of a subfamily are also included among the members of a family. The number of subfamilies, therefore, is not included in the number of families.

Own Child and Related Child

Statistics on the presence of "own" children are shown in this report for married couples, families, subfamilies, and women 16 years and over. In the 1970 census, as in 1960, a child under 18 years old is defined as an "own" child if he or she is a single (never married) son, daughter, stepchild, or adopted child of a married couple or of a family or subfamily head. In the 1970 census, the term "sons/daughters under 25" is used with the same meaning as "own children under 25" in the 1960 census; these and other similar terms that include persons 18 years old and over relate to all children of the head regardless of marital status. The number of "children living with both parents" includes stepchildren and adopted children as well as sons and daughters born to the couple. "Related" children in a family include all persons under 18 years old related to the head except wife of head.

Unrelated Individual

An unrelated individual, as defined in this report, may be any of the following: a household head living alone or with nonrelatives only, a household member not related to the head, or a person living in group quarters who is not an inmate of an institution. In the tables on income statistics, unrelated individuals are limited to those 14 years of age or older.

CHILDREN EVER BORN

The data on children ever born were derived from answers to question 25 (see facsimiles of questionnaire item and instructions, pages App-34 and 37).

In this report the statistics presented on this subject are for women ever married who were in the 20percent sample. Similar information collected from single women was not included because of anticipated weaknesses in the data and because more complete comparability with previous censuses was achieved' thereby.

In the 1970 census, a terminal category of "12 or more" was used for recording the number of children ever born. For purposes of computing the total number of children ever born, the terminal category was given a mean value of 13.

ECONOMIC CHARACTERISTICS

EMPLOYMENT STATUS

The data on employment status were derived from answers to questions 29a, 29b, 30, and 31 (see facsimiles of questionnaire items and instructions, pages App-35 and 37).

The series of questions on employment status were asked of all persons 14 years old and over in the 20percent sample and were designed to identify, in this sequence: (a) persons who worked at any time during the reference week; (b) persons who did not work during the reference week but who had jobs or businesses from which they were temporarily absent (excluding layoff); (c) persons on layoff; and (d) persons who did not work during the reference week, but who were looking for work during the past four weeks and were available for work during the reference week.

Most of the employment status data shown in this and other 1970 census reports relate to persons 16 years old and over. In 1940, 1950, and 1960, employment status data were presented for persons 14 years old and over. The change in the universe for 1970 was made to achieve conformity with the official measurement of the labor force as revised in January 1967. Selected employment status data, however, are shown for persons 14 and 15 years old.

Reference week .- Data on employment status refer to the calendar week prior to the date on which respondents completed their questionnaires or were interviewed by enumerators. Since the week of enumeration was not the same for all persons, the reference week for employment data is not entirely uniform. For many persons, the reference week for answering the 1970 census employment status questions was the last week in March, Good Friday occurred during this week and time off from work was taken by some workers for this occasion. The effect of this holiday on the 1970 census employment status data varies from area to area depending on the leave practices and time of census enumeration in the area. It is not likely that there was much effect on the overall measurement of employment since employment is based on the work activity during the entire week. The effect of the holiday on the hours worked data should, however, be considered in any interpretation or other use of the data.

Employed.-Employed persons comprise all civilians 16 years old and over who were either (a) "at work"-those who did any work at all as paid employees or in their own business or profession, or on their own farm, or who worked 15 hours or more as unpaid workers on a family farm or in a family business; or (b) were "with a job but not at work"-those who did not work during the reference week but had jobs or businesses from which they were temporarily absent due to illness, bad weather, industrial dispute, vacation, or other personal reasons. Excluded from the employed are persons whose only activity consisted of work around the house or volunteer work for religious, charitable, and similar organizations.

Unemployed.-Persons are classified as unemployed if they were civilians 16 years old and over and: (a) were neither "at work" nor "with a job, but not at work" during the reference week, (b) were looking for work during the past 4 weeks, and (c) were available to accept a job. Examples of job seeking activities are: (1) registering at a public or private employment office, (2) meeting with prospective employers, (3) checking with friends or relatives, (4) placing or answering advertisements, (5) writing letters of application, and (6) being on a union or professional register.

Also included as unemployed are persons who did not work at all during the reference week and were waiting to be called back to a job from which they had been laid off.

Civilian labor force.—The civilian labor force consists of persons classified as employed or unemployed in accordance with the criteria described above.

Labor force.-The labor force includes all persons classified in the civilian labor force plus members of the Armed Forces (persons on active duty with the United States Army, Air Force, Navy, Marine Corps, or Coast Guard).

Not in labor force.—All persons who are not classified as members of the labor force are defined as "not in labor force." This category consists mainly of students, housewives, retired workers, seasonal workers enumerated in an "off" season who were not looking for work, inmates of institutions, disabled persons, and persons doing only incidental unpaid family work (less than 15 hours during the reference week). Of these groups, students and inmates are shown separately in selected tables.

WEEKS WORKED IN 1969

The data on weeks worked in 1969 were derived from answers to question 39 (see facsimiles of questionnaire item and instructions, pages App-36 and 38).

The question was asked of all persons 14 years old and over in the 20-percent sample. In the tables, data are shown for persons 16 years old and over to conform with the universe for employment status data.

The data pertain to the number of weeks during 1969 in which a person did any work for pay or profit (including paid vacation and sick leave) or worked without pay on a family farm or in a family business. Weeks of active service in the Armed Forces are also included. It is probable that the number of persons who worked in 1969 and the number of weeks they worked are understated since there is some tendency for respondents to forget intermittent or short periods of employment or not to report weeks worked without pay.

OCCUPATION, INDUSTRY, AND CLASS OF WORKER

The data on occupation, industry, and class of worker were derived from answers to questions 33, 34, and 35 (see facsimiles of questionnaire items and instructions, pages App-36 and 37).

This series of questions was used to obtain industry, occupation, and class of worker information for the employed. For an employed person, the information referred to the job held during the reference week. If he was employed at two or more jobs, the job at which he worked the greatest number of hours during the reference week was reported.

The written occupation and industry descriptions from the questionnaire were converted to identifying codes by relating these descriptions to an entry in the 1970 Census of Population Alphabetical Index of Industries and Occupations, U.S. Government Printing Office, Washington, D.C., 1971. For the industrial code, however, the first coding attempt was by reference to the Company Name List. This list, prepared from the master address list of the 1968 Censuses of Business, Construction, Manufactures, and Minerals, contains the name of the establishment and its Standard Industrial Code converted to its population census equivalent. This listing facilitates coding and helps maintain industrial classification comparability.

The classification systems used to prepare the Alphabetical Index of Industries and Occupations for the 1970 census were developed in consultation with many individuals, private organizations, and government agencies. For occupation, the primary consultant was the Interagency Occupational Classification Committee under the auspices of the United States Office of Management and Budget.

A factor to be considered in the interpretation of these data is that occasionally respondents returned occupation, industry, or class of worker designations which were not sufficiently specific for precise classification. Many of such cases were corrected through the field editing process and during the coding and tabulation operations.

Occupation Classification System

The system developed for the 1970 census consists of 441 specific occupation categories arranged into 12 major occupation groups. In this report, selected groupings of the 441 categories are presented. Shown below are the component categories of the 24 occupation groups presented in the report. Additional information on the composition of the detailed categories is given in the publication, 1970 Census of Population Classified Index of Industries and Occupations, U.S. Government Printing Office, Washington, D.C., 1971.

Professional, technical, and kindred workers

Engineers.-Includes aeronautical and astronautical, chemical, civil, electrical and electronic, industrial, mechanical, metallurgical and materials, mining, petroleum, and sales engineers.

Physicians, dentists, and related practitioners.—Includes chiropractors, dentists, optometrists, pharmacists, medical and osteopathic physicians, podiatrists, and veterinarians.

Health workers, except practitioners,—Includes dietitians, registered nurses, therapists, clinical laboratory technologists and technicians, dental hygienists, health record technologists and technicians, radiologic technologists and technicians, and therapy assistants.

Teachers, elementary and secondary schools.—Includes prekindergarten, kindergarten, elementary, and secondary school teachers, but excludes principals and supervisors.

Technicians, except health.--Includes agricultural, biological, chemical, electrical and electronic, and industrial engineering; mathematical, and mechanical engineering technicians; draftsmen; surveyors; airplane pilots; air traffic controllers; embalmers; flight engineers; radio operators; and tool programmers, numerical control.

Other professional workers.-Includes accountants, architects, computer programmers, computer systems analysts, farm management advisors, foresters and conservationists, home management advisors, judges, lawyers, librarians, archivists and curators, actuaries, mathematicians, statisticians, agricultural scientists, atmospherical and space scientists, biological scientists, chemists, geologists, marine scientists, physicists and astronomers, operations and systems researchers and analysts, personnel and labor relations workers, clergymen and other religious workers, economists, political scientists, psychologists, sociologists, urban and regional planners, social workers, recreation workers, teachers except elementary and secondary, vocational and educational counselors, actors, athletes, authors, dancers, designers, editors and reporters, musicians and composers, painters and sculptors, photographers, public relations men and publicity writers, radio and television announcers, and research workers not specifying subject.

Managers and administrators, except farm

Includes assessors, controllers and treasurers in local public administration; bank officers and financial managers; buyers and shippers of farm products; wholesale and retail trade buyers; credit men; funeral directors; health administrators; inspectors in public administration; building managers and superintendents; ship officers, pilots, and pursers; officials of lodges, societies, and unions; postmasters and mail superintendents; railroad conductors; restaurant, cafeteria, and bar managers; sales managers and retail trade department heads; and school administrators.

Sales workers

Includes advertising agents and salesmen; auctioneers; demonstrators; hucksters and peddlers; insurance agents, brokers, and underwriters; newsboys; real estate agents and brokers; stock and bond salesmen; sales representatives; sales clerks; and salesmen.

Clerical and kindred workers

Bookkeepers.

Secretaries, stenographers, and typists.

Other clerical workers.-Includes bank tellers; billing clerks; cashiers; clerical assistants, social welfare; bill and account collectors; counter clerks, except food; vehicle dispatchers and starters; enumerators and interviewers; clerical estimators and investigators;

expediters and production controllers; file clerks; insurance adjusters, examiners and investigators; library attendants; mail carriers and mail handlers; messenger and office boys; utility meter readers; operators of: bookkeeping and billing machines, computer and peripheral equipment, key punch, tabulating machines, and other office machines; payroll and timekeeping clerks; postal clerks; proofreaders; real estate appraisers; receptionists; shipping and receiving clerks; statistical clerks; stock clerks and storekeepers; teacher aides; telegraph messengers; telegraph operators; telephone operators; ticket, station, and express agents; and weighers.

Craftsmen, foremen, and kindred workers²

Automobile mechanics, including body repairmen.

Mechanics and repairmen, except auto.—Includes mechanics and repairmen of: air conditioning, heating and refrigeration; aircraft; data processing machines; farm implements; heavy equipment; household appliances; looms; office machines; radios and televisions; and railroad cars.

Machinists.

Metal craftsmen, except mechanics and machinists.—Includes blacksmiths; boilermakers; forgemen and hammermen; heat treaters, annealers, and temperers; job and die setters, metal; millwrights; metal molders; pattern and model makers; rollers and finishers, metal; sheet metal workers and tinsmiths; shipfitters; and tool and die makers.

²Craft apprentices are included with their craft.

Carpenters.

Construction craftsmen, except carpenters.—Includes brickmasons and stonemasons; cement and concrete finishers; electricians; excavating, grading, and road machine operators; floor layers; painters, construction and maintenance; paperhangers; plasterers; plumbers and pipe fitters; roofers and slaters; structural metal craftsmen; and tile setters.

Other craftsmen.-Includes automobile accessories installers; bakers; bookbinders; cabinetmakers; carpet installers; compositors and typesetters; cranemen, derrickmen, and hoistmen; decorators and window dressers: dental laboratory technicians; electric power linemen and cablemen; electrotypers and stereotypers; engravers; photoengravers and lithographers; printing pressmen and plate printers; foremen;³ furniture and wood finishers; furriers; glaziers; log and lumber inspectors, scalers, and graders; inspectors, n.e.c.; jewelers and watchmakers; locomotive engineers and firemen; grain, flour, and feed millers; motion picture projectionists; opticians and lens grinders and polishers; plano and organ tuners and repairmen; power station operators; shoe repairmen; sign painters and letterers; stationary engineers; stone cutters and stone carvers; tailors; telephone installers and repairmen, linemen and splicers; and upholsterers.

Operatives, except transport

Includes asbestos and insulation workers; assemblers; blasters and powdermen; bottling and canning opera-

tives; surveying chainmen, rodmen, and axmen; manufacturing checkers, examiners, and inspectors; clothing ironers and pressers; cutting operatives, n.e.c.; dressmakers and seamstresses, except factory; earth drillers; dry wall installers and lathers; dyers; filers, polishers, sanders, and buffers; furnacemen, smeltermen, and pourers; garage workers and gas station attendants; graders and sorters, manufacturing; produce graders and packers, except factory and farm; metal heaters; laundry and dry cleaning operatives, n.e.c.; meat cutters and butchers; meat wrappers, retail trade; metal platers; milliners; mine operatives, n.e.c.; mixing operatives; oilers and greasers, except auto; packers and wrappers, n.e.c.; painters, manufactured articles; photographic process workers; drill press operatives; grinding machine operatives; lathe and milling machine operatives; punch and stamping press operatives; riveters and fasteners; sailors and deckhands; sawvers; sewers and stitchers; shoemaking machine operatives; solderers; stationary firemen; carding, lapping, and combing operatives; knitters, loopers, and toppers; spinners, twisters, and winders; weavers; welders and flame-cutters; winding operatives, n.e.c.; and miscellaneous and not specified operatives.

Transport equipment operatives

Truck drivers.

Other transport equipment operatives.-Includes boatmen and canalmen, bus drivers, urban rail transit conductors and motormen, deliverymen and routemen, fork lift and tow motor operatives, motormen, parking attendants, railroad brakemen, railroad switchmen, taxicab drivers and chauffeurs.

Laborers, except farm

Construction laborers.-Includes laborers in the construction industry and all others who specified helping construction craftsmen.

Freight, stock, and material handlers.—Includes freight and material handlers, garbage collectors, longshoremen, stevedores, and stockhandlers.

Other laborers except farm.--Includes animal caretakers, except farm; fishermen and oystermen; gardeners and groundskeepers, except farm; lumbermen, raftsmen, and woodchoppers; teamsters; vehicle washers and equipment cleaners; warehousemen, n.e.c.; and miscellaneous and not specified laborers.

Farmers and farm managers

Farm laborers and farm foremen

Includes farm foremen; farm laborers, wage workers; farm laborers, unpaid family workers; and selfemployed farm service laborers.

Service workers, except private household

Cleaning service workers.—Includes chambermaids and maids, cleaners and charwomen, janitors and sextons.

Food service workers.—Includes bartenders, busboys, cooks, dishwashers, food counter and fountain workers, and waiters.

Health service workers.-Includes nursing and other health aides, health trainees, orderlies and attendants, practical nurses, dental assistants, and lay midwives.

³Foremen who also report a craft occupation are classified with their craft. This category includes foremen of operatives and those who did not report their craft.

APPENDIX B—Continued

Personal service workers.—Includes airline stewardesses, recreation and amusement attendants, baggage porters, bellhops, barbers, boardinghouse and lodginghouse keepers, bootblacks, child care workers, elevator operators, hairdressers and cosmetologists, housekeepers, school monitors, recreation and amusement ushers, and welfare service aides.

Protective service workers.— Includes firemen (fire protection), guards and watchmen, policemen and detectives, crossing guards and bridge tenders, marshals and constables, sheriffs and bailiffs.

Private household workers

Includes child care workers, cooks, housekeepers, laundresses, and maids and servants.

Farm workers.—The occupation category "farm workers" includes farmers, farm managers, farm laborers, and farm foremen.

Relation to DOT classification. -The population census occupational classification system is generally comparable with the system used in the Dictionary of Occupational Titles (DOT) with the exception of the blue collar workers.⁴ The DOT structure for these occupations is quite different from that used by the Bureau of the Census. An important reason for this is that the two systems are designed to meet different needs and to be used under different circumstances. The DOT system is basically a job defining scheme and is more detailed than the system used by the Bureau of the Census, which is data collection

oriented. Thus, job classification by DOT requires more detailed information than is often found on the census questionnaires.

Industry Classification System

The industry classification system developed for the 1970 Census of Population consists of 227 categories classified into 12 major industry groups. Shown below are the component categories of the industry groups defined in Standard Industrial Classification (SIC) terms;⁵ i.e., the numbers in parentheses after each of the group titles. In addition, for readers without access to the SIC, descriptive terms of the content of the categories are included as required. Major industry group titles are in italics. Additional information on the industry classification system is presented in the publication, 1970 Census of Population Classified Index of Industries and Occupations, U.S. Government Printing Office, Washington, D.C., 1971.

Agriculture, forestry, and fisheries (01, 07 (except 0713), 08, 09).

Mining (10-14). Includes quarrying and petroleum and gas extraction as well as mining.

Construction (15-17).

Manufacturing (0713, 19-39).

Furniture, lumber, and wood products (24, 25). Includes logging, sawmills, and furniture manufacturing.

Primary metal industries (33). Includes primary iron, steel, and aluminum furnaces, and rolling and finishing mills. Fabricated metal industries (including not specified metal) (19, 34).

Machinery, except electrical (35). Includes engines, farm machinery, and office and electronic computing equipment.

Electrical machinery, equipment, and supplies (36).

Motor vehicles and other transportation equipment (37).

Other durable goods (32, 38, 39). Includes stone, clay, glass, and concrete products and professional, photographic, and time keeping equipment.

Food and kindred products (20, 0713). Includes meat, dairy, and grain products; beverage products; and canning and preserving.

Textile mill and other fabricated textile products (22, 23). Includes textiles, carpets, and apparel.

Printing, publishing, and allied industries (27).

Chemical and allied products (28). Includes synthetic fibers, drugs, medicines, and paints.

Other nondurable goods (including not specified manufacturing industries (21, 26, 29, 30, 31). Includes tobacco, paper, petroleum refining, rubber, plastics, and leather products.

Transportation, communications, and other public utilities (40-49).

Railroads and railway express service (40).

Trucking service and warehousing (42).

Other transportation (41, 44, 45, 46, 47). Includes urban transit, bus, water, and air transportation, pipelines and transportation services.

⁴See U.S. Department of Labor, Bureau of Employment Security, Dictionary of Occupational Titles, third edition, Vols. I and II, Washington, 1965.

⁵See Executive Office of the President, Bureau of the Budget, Standard Industrial Classification Manual, 1967.

APPENDIX B—Continued

Communications (48). Includes radio, television, telephone, and telegraph communication services.

Utilities and sanitary services (49). Includes electric, gas, water, and sanitary services.

Wholesale and retail trade (50-59).

Wholesale trade (50).

Food, bakery, and dairy stores (54).

Eating and drinking places (58).

General merchandise retailing (53). Includes department stores, variety stores, mail order houses, vending machines, and door to door sales.

Motor vehicle retailing and service stations (55).

Other retail trade (52, 56, 57, 59).

Finance, insurance, and real estate (60-67).

Banking and credit agencies (60, 61).

Insurance, real estate, and other finance (62, 63, 64, 65, 66, 67).

Business and repair services (73-76).

Business services (73). Includes advertising, research labs, employment agencies, consulting services, and computer programing services.

Repair services (75, 76). In addition to repair shops, includes automobile rental, parking and washing services.

Personal services (70, 72, 88).

Private households (88).

Other personal services (70, 72). Includes hotels, garment services, beauty, barber, dressmaking, and shoe repair shops.

Entertainment and recreation services (78, 79). Includes theaters, motion

pictures, bowling alleys, and billiard parlors.

Professional and related services (80-89).

Hospitals (806).

Health services, except hospitals (80 except 806).

Elementary and secondary schools and colleges (821, 822).

Other education and kindred services (823-829, 84). Includes all other schools (correspondence, etc.), libraries, museums, art galleries, and zoos.

Welfare, religious, and nonprofit membership organizations (86 except part 867).

Legal, engineering, and miscellaneous professional services (81, part 867, 89).

Public administration (9190, 9290, 9390, 9490). Includes postal service and Federal, State, and local public administration.

Relation to Standard Industrial Classification (SIC) .- One of the major purposes of the Standard Industrial Classification (SIC) is to promote uniformity and comparability in the presentation of statistical data collected by various agencies. To achieve this goal, the census industry categories are defined in SIC terms. The figures shown in this report differ from those obtained from establishment surveys. One reason for this is that replies from household respondents may differ in detail and nature from those obtained from establishments. Other differences are caused by the geographic differences between residence and place of work, different dates of reference between surveys, and dual job holders that may be counted in the reports of two establishments but counted in the census for only their major job. Readers should also understand the distinction between the census "Public administration" and the SIC "Government". The public administration category covers only regular government functions (SIC code 9X90) whereas the SIC government category includes all government workers with the industrial activity designated in the third and fourth digit of the SIC code. The census covers all government workers in its "class of worker" item,

Relation to certain occupation groups -- Some occupation groups are closely related to certain industries. Transport equipment operatives, the two groups of farm occupations, and private household workers are concentrated in the transportation, agriculture, and private household industries, respectively. The industry categories, however, are broader and include occupations other than those concentrated in that industry. For example, persons employed in agriculture include truck drivers, bookkeepers, and others; persons employed in the transportation industry include mechanics and secretaries; and persons employed in the private household industry include occupations such as chauffeur, gardener, and secretary.

Class of Worker

As noted earlier, each person is classified in three distinct dimensions occupation, industrial attachment, and class of worker. Thus, placement of a person in a particular class-of-worker category is in most cases independent of the occupation or industry in which he worked. The class-of-worker item on the questionnaire consists of seven categories which are defined as follows: 1. Private wage and salary workers.—Persons who worked for a private employer for wages, salary, commission, tips, pay-in-kind, or at piece rates.

2. Government workers.—Persons who worked for any governmental unit, regardless of the activity of the particular agency. This category is subdivided by the level of government: (a) Federal, (b) State, and (c) local (county and its political subdivisions such as cities, villages, and townships).

3. Self-employed workers.-

a. Own business not incorporated.—Persons who worked for profit or fees in their own unincorporated business, profession, or trade, or who operated a farm. Included here are the owner-operators of large stores and manufacturing establishments as well as small merchants, independent craftsmen and professional men, farmers, peddlers, and other persons who conducted enterprises on their own.

b. Own business incorporated.—Persons who consider themselves self-employed but work for corporations. (In most cases the respondents will own or be part of a group that owns controlling interest in the corporation.) Since all workers of a corporation are defined as wage and salary workers, this category is tabulated with "private wage and salary workers," and shown as a subcategory of that group.

4. Unpaid family workers.—Persons who worked without pay on a farm or in a business operated by a person to whom they are related by blood or marriage. These are usually the children or the wife of the owner of a business or farm. About one half of the unpaid family workers are farm laborers.

INCOME

The data on income were derived from answers to questions 40 and 41 (see facsimiles of questionnaire items and instructions, pages App-36 and 38).

Information on money income received in the calendar year 1969 was requested from all persons 14 years old and over in the 20-percent sample. "Total income" is the algebraic sum of the amounts reported in item 40a (Wage or salary income), item 40b (Nonfarm net self-employment income), item 40c (Farm net selfemployment income), item 41a (Social Security or railroad retirement income), item 41b (Public assistance or welfare income), and item 41c (All other income). "Earnings" is the algebraic sum of the amounts reported as wage or salary income and nonfarm and farm net self-employment income. The figures represent the amount of income regularly received before deductions for personal income taxes, Social Security, bond purchases, union dues, medicare deductions, etc.

Receipts from the following sources were not included as income: money received from the sale of property, (unless the recipient was engaged in the business of selling such property); the value of income "in kind" such as food produced and consumed in the home or free living quarters; withdrawal of bank deposits; money borrowed; tax refunds; exchange of money between relatives living in the same household; gifts and lump-sum inheritances, insurance payments, and other types of lump-sum receipts.

Type of Income

Wage or salary income.—This is defined as the total money earnings received for work performed as an ; employee at any time during the calendar year 1969. It includes wages, salary, pay from Armed Forces, commissions, tips, piece rate payments, and cash bonuses earned.

Nonfarm net self-employment income.—This is defined as net money income (gross receipts minus business expenses) received from a business, professional enterprise, or partnership in which the person was engaged on his own account. Gross receipts include the value of all goods sold and services rendered. Business expenses include cost of goods purchased, rent, heat, light, power, depreciation charges, wages and salaries paid, business taxes (not personal income taxes), etc.

Farm net self-employment income.-This is defined as net money income (gross receipts minus operating expenses) received from the operation of a farm by a person on his own account, as an owner, renter, or sharecropper, Gross receipts include the value of all products sold, governmental subsidies, money received from the rental of farm equipment to others, and incidental receipts from the sale of wood, sand, and gravel, etc. Operating expenses include the cost of fuel, fertilizer, seed, and other farming supplies, cash wages paid to farmhands, depreciation charges, cash rent, interest on farm mortgages, farm building repairs, farm taxes (not Federal, State, and local income taxes), etc. The value of fuel, food, and other farm products used for

APPENDIX B—Continued

family living are not included as part of net income,

Social Security or railroad retirement income.-This includes cash receipts of Social Security pensions, survivors' benefits, permanent disability insurance payments, and special benefit payments made by the Social Security Administration (under the National old-age, survivors, disability, and health insurance programs) before deductions of health insurance premiums. "Medicare" reimbursements are not included. Cash receipts of retirement, disability, and survivors' benefit payments made by the U.S. Government under the Railroad Retirement Act are also included.

Public assistance income.—This includes cash receipts of payments made under the following public assistance programs: aid to families with dependent children, old age assistance, general assistance, aid to the blind, and aid to the permanently and totally disabled. Separate payments received for hospital or other medical care are excluded from this item.

Income from all other sources. -- This includes money income received from sources such as interest; dividends; net income (or loss) from property rentals; net receipts from roomers or boarders; veteran's payments; public or private pensions; periodic receipts from insurance policies or annuities; unemployment insurance benefits; workmen's compensation cash benefits; net royalties; periodic payments from estates and trust funds; alimony or child support from persons who are not members of the household; net gambling gains; nonservice scholarships and fellowships; and money received for transportation and/or subsistence

by persons participating in special governmental training programs, e.g., under the Manpower Development and Training Act.

Income of families and unrelated individuals.—This report includes information on income of families, unrelated individuals 14 years old and over, and persons 14 years old and over.

In compiling statistics on family income, the incomes of all members 14 years old and over in each family are summed and treated as a single amount. However, in compiling the income data for unrelated individuals and persons 14 years old and over, the total amount of their own income is used. Although the income statistics cover the calendar year 1969, the characteristics of persons and the composition of families refer to the time of enumeration (April 1970). Thus, the income of the family does not include amounts received by persons who were members of the family during all or part of the calendar year 1969 if these persons no longer resided with the family at the time of enumeration. On the other hand, family income amounts reported by related persons who did not reside with the family during 1969 but who were members of the family at the time of enumeration were included. For most families, however, the income reported was received by persons who were members of the family throughout 1969.

Median, Mean, and Per Capita Income

The median income is the amount which divides the distribution into two equal groups, one having incomes above the median and the other having incomes below the median. When the median income falls in the terminal category of a distribution, the method of presentation is to show the initial value of the terminal category followed by a plus sign; thus, for example, if the median income falls in the terminal category "\$25,000 or more," it is shown as "\$25,000+."

The mean income is the amount obtained by dividing the total income of a particular statistical universe by the number of units in that universe. Thus, mean family income is obtained by dividing total family income by the total number of families. The mean income of each family member is the amount obtained by dividing total family income by the total number of family members. Mean income for persons is obtained by dividing the total income of persons (including patients or inmates in institutional quarters) by the number of persons with income. Per capita income is the mean income computed for every man, woman, and child in a particular group. It is derived by dividing the total income of a particular group by the total population (including patients or inmates in institutional quarters) in that group. For the six income types the means are based on families or unrelated individuals having those types of income. It should be noted that the maximum income amount that can be aggregated for each family or unrelated individual is 1.3 million dollars for total income and \$995,000 for any one type of income. Thus, it is conceivable that the sum of the aggregates of all income types may exceed the aggregate of the total.

Care should be exercised in using and interpreting mean income values in the statistics for small areas or small subgroups of the population. Since the mean is strongly influenced by extreme values in the distribution, it is especially susceptible to the effects of sampling variability, misreporting, and processing errors. The median, which is not affected by extreme values, is, therefore, a better measure than the mean when the population base is small.

POVERTY STATUS

The data on poverty status were derived from answers to the same questions as the income data (see income definitions, above). Poverty statistics have not been published in previous decennial census reports. They have, however, been published for the years 1959 to 1969 from data collected in the annual March Current Population Survey (CPS) by the Bureau of the Census, The population covered in the poverty statistics presented in this report excludes inmates of institutions, members of the Armed Forces living in barracks, college students living in dormitories, and unrelated individuals under 14 years old.

The Poverty Definition

The poverty statistics presented in this report are based on a definition origi-

nated by the Social Security Administration in 1964 and subsequently modified by a Federal Interagency Committee.⁶ The index provides a range of poverty income cutoffs adjusted by such factors as family size, sex of the family head, number of children under 18 years old, and farm and nonfarm residence. At the core of this definition of poverty is a nutritionally adequate food plan ("economy" plan) designed by the Department of Agriculture for "emergency or temporary use when funds are low." The index allows for differences in the cost of living between farm and nonfarm families by setting the poverty thresholds for farm families at 85 percent of the corresponding levels for nonfarm families. The poverty income cutoffs are revised annually to allow for changes in the cost of living as reflected in the Consumer Price Index.

In 1969, the poverty thresholds ranged from \$1,487 for a female unre-

lated individual 65 years old and over living on a farm to \$6,116 for a nonfarm family with a male head and with seven or more persons. The average poverty threshold for a nonfarm family of four headed by a male was \$3,745.

Income deficit,-The income deficit is the difference between the total income of families and unrelated individuals below the poverty level and their respective poverty thresholds. In computing the income deficit, families reporting a net income loss are assigned zero dollars and for such cases the income deficit is equal to the poverty threshold. The aggregate income deficit provides an estimate of the amount of money which would be required to raise the incomes of all poor families and unrelated individuals to their respective thresholds at the poverty levels.

Mean income deficit.—The mean income deficit is the amount obtained by dividing the aggregate income deficit of a group below the poverty level by the number of families or unrelated individuals (as appropriate) in that group.

⁶For a detailed explanation of the poverty definition, see U.S. Bureau of the Census, Current Population Reports, Series P-23, No.28, Revision in Poverty Statistics, 1959 to 1968.

FACSIMILES OF THE POPULATION QUESTIONS ON THE 1970 CENSUS QUESTIONNAIRES (Questions on this page appeared on both the 15-percent and 5-percent sample questionnaires)

1. WHAT IS THE NAME OF EACH PERSON who was living here on Wednesday, April 1, 1970 or who was staying or visiting here and had no other home? Print names Head of the household Wife of head 2 in this order 9 order 9 order	 2. HOW IS EACH PERSON RELATED TO THE HEAD OF THIS HOUSEHOLD? Fill one circle. If "Other relative of head," <u>also</u> give exact relationship, for example, mother-in-law, brother, niece, grandson, etc. If "Other not related to head," <u>also</u> give exact relationship, for example, partner, maid, etc. 	\langle
1 Last name First name Middle Initial	 Head of household Roomer, boarder, lodger Wife of head Patient or inmate Son or daughter of head Other not related to head—Print exact Other relative relationship 	

\sim	3. SEX	4. COLOR OR RACE	DATE OF BIRTH				
	• 🔳	Fill one circle.	5. Month and year of birth and age last birthday	6. Month of birth	7. Year of birth		EACH PERSON'S MARITAL STATUS?
	Fill one circle	lf "Indian (American)," <u>also</u> give tribe. If "Other," <u>also</u> give race.	Print	Fill one circle	Fill one circle for first tbree numbers	Fill one circle for last number	Fill one circle
	Male O	White O Japanese O Hawaiian O Chinese O Korean O Negro O Filipino O Other Prin	Month	 ○ JanMar. ○ AprJune 	0 187. 0 193.		 Now married Widowed Divorced
	Female O	O Indian (Amer.)		 D July-Sept OctDec. 	((03 08	O Separated O Never married

Note: On the questionnaires used in Alaska, the categories "Aleut" and "Eskimo" were substituted for "Hawaiian" and "Korean" in question 4.

shown above.

FACSIMILE OF THE RESPONDENT INSTRUCTIONS FOR POPULATION QUESTIONS 1 TO 8

- 1. If you are not sure about whether to list a person, see the rules on the flap of the census form.
 - e 5. If the month or year of birth, or the age, is not known, give your best estimate.

6, 7. If you are not sure how to fill these circles, look at the examples

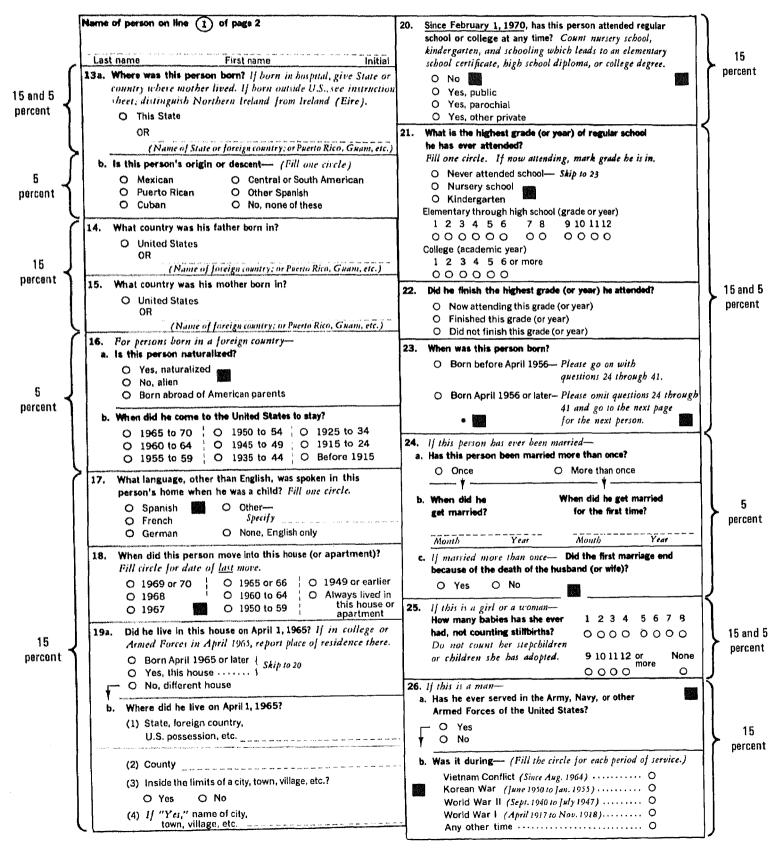
2. If two or more unrelated people live together and share the rent, mark the first one you list **Head of household**. Mark the rest **Other not related to head** and print "partner" in the space.

A stepchild or legally adopted child of the head should be marked $\verb"Son" or daughter".$

8. If the person's only marriage was annulled, mark Never married.

APPENDIX B—Continued

FACSIMILES OF THE POPULATION QUESTIONS ON THE 1970 CENSUS QUESTIONNAIRES (Percent indicates sample size)



FACSIMILES OF THE POPULATION QUESTIONS ON THE 1970 CENSUS QUESTIONNAIRES (Percent indicates sample size)

		Has this person ever completed a vocational training program? For example, in high school; as apprentice; in school of business, nursing, or trades; technical institute; or Armed Forces schools. Ves No-Skip to 28	 c. Where did he work last week? If he worked in more than one place, print where he worked most last week, If he travels about in his work or if the place does not have a numbered address, see instruction sheet. (1) Address (Number and street name) 	
5	В.	 What was his main field of vocational training? Fill one circle. Business, office work Nursing, other health fields Trades and crafts (mechanic. electrician, beautician. etc.) Engineering or science technician; draftsman Agriculture or home economics Other field- Specify 	 (2) Name of city, town, village, etc. (3) Inside the limits of this city, town, village, etc.? Yes No (4) County	15 percent
percent		 Does this person have a health or physical condition which limits the kind or amount of work he can do at a job? If 65 years old or over, skip to question 29. Yes No Does his health or physical condition keep him from holding any job at all? Yes No 	d. How did he get to work last week? Fill one circle for chief means used on the last day be worked at the address given in 29c. O Driver, private auto O Taxicab O Passenger, private auto O Taxicab O Bus or streetcar O Walked only O Subway or elevated O Other means—Specify After completing question 29d, skip to question 33.	
	c	 If "Yes" in a or b— How long has he been limited in his ability to work? Less than 6 months 3 to 4 years 6 to 11 months 5 to 9 years 1 to 2 years 10 years or more 	 30. Does this person have a job or business from which he was temporarily absent or on layoff <u>last week?</u> ○ Yes, on layoff ○ Yes, on vacation, temporary illness, labor dispute, etc. ○ No 	
15 and 5 percent	29a	QUESTIONS 29 THROUGH 41 ARE FOR ALL PERSONS BORN BEFORE APRIL 1956 INCLUDING HOUSEWIVES, STUDENTS, OR DISABLED PERSONS AS WELL AS PART-TIME OR FULL-TIME WORKERS Did this person work at any time last week? • Yes- Fill this circle if this person did full- or part-time work. (Count part-time work such at a Saturday job, delivering papers, or belping without or farm; and active duty in the Armed Forces) betw many hours did he work last week (at all jobs)? Subtract any time off and add overtime or extra hours worked. 1 to 14 hours 40 hours 30 to 34 hours 49 to 59 hours	31a. Has the been looking for work during the past 4 weeks? Yes No Step 10 32 b. Was there any reason why he could not take a job last week? Yes, already has a job Yes, because of this person's temporary illness Yes, for other reasons (in school, etc.) No, could have taken a job 32. When did he last work at all, even for a few days? In 1970 1964 to 1967 In 1969 1960 to 1963 In 1968	15 and 5 percent

FACSIMILES OF THE POPULATION QUESTIONS ON THE 1970 CENSUS QUESTIONNAIRES (Percent indicates sample size)

	33.3	15. Current or most recent job activity)	
		Describe clearly this person's chief job activity or business last week, if any. If he had more than one job, describe the one at which he worked the most hours. If this person had no job or business last week, give information for last job or business since 1960. Industry	34 .	In April 1965, was this person- (Fill three circles) a. Working at a job or business (full or part-time)? O Yes O No b. In the Armed Forces? O Yes O No c. Attending college?		15 and 5 percent
		For whom did he work? If now on active duty in the Armed Forces, print "AF" and skip to question 36.	D	O Yes O No If "Yes" for "Working at a job or business" in question 37 escribe this person's chief activity or business in April 1965. What kind of business or industry was this?		
	Ь.	(Name of company, business, organization, or other employer) What kind of business or industry was this? Describe activity at location where employed.	b. c.	What kind of work was he doing (occupation)? Was he— An employee of a private company or government agency O Self-employed or an unpaid family worker		5 percent
	C.	 (For example: Junior bigb school, retail supermarket, dairy farm, TV and radio service, auto assembly plant, road construction) 1s this mainly— (Fill one circle) O Manufacturing O Retail trade O Wholesale trade O Other (agriculture, construction, service, government, etc., 	р.	Last year (1969), did this person work at all, even for a few days? O Yes O No- Skip to 41 How many weeks did he work in 1969, either full-time or part-time? Couns paid vacation, paid sick leave, and military service. O 13 weeks or less O 40 to 47 weeks		
15 and 5 percent		Occupation What kind of work was he doing?	40.	 14 to 26 weeks 27 to 39 weeks 50 to 52 weeks Earnings in 1969— Fill parts a, b, and c for everyone who worked any time in 1969 even if he had no income. (If exact amount is not known, give best estimate.)		
	þ.	(For example: TV repairman, sewing machine operator, spray painter, civil engineer, farm operator, farm hand, junior high English teacher) What were his most important activities or duties?		How much did this person earn in 1969 in wages, salary, commissions, bonuses, or tips from all jobs? (Before deductions for taxes, bonds, dues, or other itensi.) OR O None		
	c.	(For example: Types, keeps account books, files, sells cars, operates primiing press, cleans buildings, finishes concrese) What was	þ.	How much did he earn in 1969 from his own nonfarm business, professional practice, or partnership? (Net after business expenses. If business lost money, write "Loss" above amount.)		
	35.	his job title? Was this person— (Fill one circle) Employee of private company, business, or individual, for wages, salary, or commissions O	- -	How much did he earn in 1969 from his own farm? (Net after operating expenses, Include earnings as a tenant farmer or sharecropper. If farm lost money, write "Loss" above annownt.) OR O None		15 and 5 percent
		Federal government employee O State government employee O Local government employee (city, county, etc.) O	41.	Income other than earnings in 1969— Fill parts a, b, and c. (If exact amount is not known, give best estimate.)		
		Self-employed in own business, professional practice, or farm— Own business not incorporated		How much did this person receive in 1959 from Social Security or Railroad Retirement? OR O None		
5 percent	36.	Own business incorporated O Working <u>without pay</u> in family business or farm O In April 1965, what State did this person live in? O This State OR	- -	How much did he receive in 1969 from public assistance or welfare payments? Include aid for dependent children, old age atsistance, general atsistance, aid to the blind or totally disabled. Exclude separate payments for hospital or other medical care.		
l	L	(Name of State or foreign country: or Puerto Rico, etc.)	c	How much did he receive in 1969 from all other sources? Include interest, dividends, veterans' payments, pensions, and other regular payments. (See instruction sheet.) OR O None		

APPENDIX B—Continued

FACSIMILES OF THE RESPONDENT INSTRUCTIONS FOR POPULATION QUESTIONS IN THE 1970 CENSUS

13. Mark the circle for This State if he now lives in the same State as he was born in. If born in a different State, print name of State.

If born outside U.S., print name of country, U.S. possession, etc. Use international boundaries as now recognized by the U.S.

- 16. Mark one circle in part a and one circle in part b for persons born outside the 50 States, District of Columbia, Puerto Rico, Canal Zone, Guam, or Virgin Islands of U.S.
- 17. If more than one language other than English was spoken, mark principal language.
- 18. Mark the date for the last time he moved into this particular house or apartment.
- 19a. Mark Yes if he lived in this same house or apartment on April 1, 1965, even if he moved away and came back between then and now. Mark No if he lived in the same building but in a different apartment on April 1, 1965.
- **b.** If he lived somewhere else on April 1, 1965, give the address of his usual residence at that time.
 - Part (2) For addresses in Louisiana, print the parish name.

For addresses in Alaska, print the borough name. For addresses in **independent cities**, print the name of the city and word "city," for example, "Baltimore city."

- Part (3) Mark Yes if you know that the address is now inside the limits of a city, town, village, or other incorporated place, even if it was not inside the limits on April 1, 1965.
- Do not count trade or business school, company training, or tutoring unless you think he could get credit for it at a regular school or college.

If he skipped or repeated grades, mark the highest grade ever attended, regardless of how long it took to get there.

If he finished high school, but did not go to college, mark 12.

For college, mark the highest academic year attended.

- 22. Mark Finished this grade (or year) only if he finished the entire grade or year shown in question 21.
- 24b. If exact dates of marriage are unknown, estimate as closely as possible.
- 25. Count all the children the girl or woman has ever had, even if some of them have died or no longer live with her.
- 26. Mark Yes if he was ever on active duty in the Army, Navy, Air Force, Marine Corps, or Coast Guard, no matter how short a time he served. Count only active duty in National Guard or Reserves.

Mark No if he had only civilian duty in the Armed Forces or merchant marine. Mark No if he was in the National Guard or Reserves, but was not called to active duty. Mark No if his only military service was in the Armed Forces of another country.

- 27a. Count only programs that he finished. Do not count courses which are not part of an organized program of study. Do not count training he got on-the-job, in company schools, in college after the second year, or by correspondence.
- 28a. Health condition. This is a serious illness, or a serious handicap (impairment) affecting some part of the body or mind, which interferes with his ability to work at a job. Answer No for pregnancy, common colds, etc.

29a. Mark Yes if he worked on any day Sunday through Saturday of last week.

Do not count as work

Unpaid volunteer work.

own home

an institution.

Housework or yard work at

Work done as an inmate of

Count as work

Work for someone else for wages, salary, piece rate, commission, tips, or payment "in kind" Work in own business, professional practice, or farm Any work in a family business

or farm, paid or not

Any part-time work

- Active duty in the Armed Forces
- b. Give the actual number of hours he worked at all jobs last week, even if that was more or fewer hours than he usually works.
- c. For a person who travels about in his work or who works in more than one place--If he usually checks in or out at the same place every day, give the address of that place.
 - If he does not check in or out at the same place, give the address of the place where he worked the most hours last week.

Give the **exact address** of the location or branch where he works if his employer operates in more than one location (such as a grocery store chain or public school system).

When you cannot give the number or street name, print the name of the building, if any, or the name of the company for which he works.

- d. Mark Worked at home for a person who worked on a farm where he lives or in an office or shop in his home.
- Mark No if he works only during certain seasons or is "on call" to work when needed.
- 31a. Mark Yes if he tried to get a job or to start a business or profession at any time in the past four weeks; for example, if he registered at an employment office, went for a job interview, or did anything toward starting a business. Mark Yes if he was waiting to hear from places he had applied to or registered with within the past four weeks.
 - b. Mark Yes, already has a job if he was on layoff or was expecting to report to a job within 30 days.

Mark Yes, because of this person's temporary illness if he expects to be able to work within 30 days.

Mark Yes, for other reasons for reasons such as going to school or taking care of children.

- 32. Look at the instruction for 29a to see what work means. Mark Never worked if he: (1) never worked at any kind of job or business, either full or part-time, (2) never did any unpaid work in a family business or farm, and (3) never served in the Armed Forces.
- 33a. If he worked for a company, business, or government agency, print the name of the company, not the name of his supervisor. If he worked for a person or a small business that has no company name, print the name of the person he worked for.
 - b. Write two or more words to tell what the business, industry, or person named in 33a does. Write what it makes or what it sells or what service it gives. Some examples of acceptable answers are shown on the Census form and here.

Acceptable	Unacceptable
Cattle ranch	Ranch
Wholesale grocery store	Grocery store
Retail gas station	Oil company
Metal furniture manufacturing	Furniture company

If a company does more than one thing (like make household electrical appliances and electric generators) describe only the major activity at the place where he works. If, however, he works at a warehouse, repair shop, etc., that is part of and used only by a larger organization, give the major activity of the larger organization; for example, department store warehouse - report department store.

FACSIMILES OF THE RESPONDENT INSTRUCTIONS FOR POPULATION QUESTIONS IN THE 1970 CENSUS—cont.

33c. Mark Manufacturing if the factory, plant, mill, etc. makes things, even if it also sells them.

Mark Wholesale trade if a business does not make things but buys them to sell to stores or other companies.

Mark **Retail trade** if the business mostly sells things (not services) to individuals.

Mark Other if the main purpose of the employer is not making or selling things. Some examples of "Other" are services, such as those given by hotels, dry cleaners, repair shops, schools, and banks. Farming and building houses, bridges, roads, are also examples of "Other" kinds of businesses.

34a. Write two or more words to tell the kind of work he does. If he is a trainee, apprentice, or helper, write that down too. See examples of acceptable answers on the Census form and here.

Acceptable	Unacceptable
Sales clerk	Clerk
Carpenter's helper	Helper
Practical nurse	Nurse

- b. Write the most important things that he does on the job. Some examples are shown on the Census form.
- c. Print his job title (what his employer calls his job). If he has no job title, print None.
- If he was an employee of a private non-profit organization, mark the first circle.

Mark Local government employee for a teacher in a local public school.

- 36. Mark This State if he now lives in the same State as he did in April 1965.
- 37. If he had two or more activities during the same period, mark Yes for each of these activities.

- **39.** Look at the instruction for question 29a to see what **Work** means. Count every week in which he did any work at all, even for a few hours.
- 40. Enter the amount or fill the None circle in a, b, and c. Part 40a Includes "sick leave" pay. Part 40a excludes military bonuses, reimbursement for business expenses, and pay "in kind." The owner of an unincorporated nonfarm business should include his net earnings in part 40b. If the business or farm is incorporated, his earnings should be included in part 40a.
- 41. Enter the amount or fill the None circle in a, b, and c.
 - a. Social Security or Rallroad Retirement include U.S. Government payments to retired persons, to dependents of deceased insured workers, or to disabled workers. Include "Medicare" premiums; exclude receipts.
 - b. Public assistance or public welfare payments include amounts received from Federal, State, or local public programs. Exclude private welfare payments.
 - c. Interest, dividends include amounts received or credited to your account.

Veterans' payments – include money paid for service-connected disabilities, to survivors of deceased veterans, for education and on-thejob training subsistence allowances, and for "refunds" on "GI" insurance premiums.

Retirement pensions – include amounts paid by former private employers and by unions, and amounts paid by Federal, State, county, or other governmental agencies.

Other regular payments - include such periodic income as net rental income, unemployment insurance benefits, workmen's compensation, private welfare payments, alimony or child support, Armed Forces allotments, and regular contributions from persons who are not members of your household.

Exclude receipts from the sale of personal property, capital gains, lumpsum insurance or inheritance payments, or pay "in kind."

Appendix C.—ACCURACY OF THE DATA

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SOURCES OF ERROR

Human and mechanical errors occur in any mass statistical operation such as a decennial census. Errors during the data collection phase can include failure to obtain required information from respondents, obtaining incorrect or inconsistent information, and recording information in the wrong place or incorrectly, Errors can also occur during the field review of the enumerator's work, the clerical handling of the questionnaires, and the various stages of the electronic processing of the material. Careful efforts are made in every census to keep the errors in each step at an acceptably low level. Quality control and check measures are utilized throughout the census operation.

In the manual editing and coding operation, a sample of the work of each coder was verified, and a coder who showed consistently high error rates was retrained. A coder who still did not produce work of acceptable quality after retraining was removed from the coding operation. In addition, provision was made for correction of any work units for which the error rate exceeded an acceptable level. Information on error rates will be given in later publications.

As was done for the 1950 and 1960 censuses, evaluative material on many aspects of the 1970 census will be published as soon as the appropriate data are accumulated and analyzed. A major concern in the evaluation work is to ascertain, insofar as possible, the degree of completeness of the count of both population and housing units.

EDITING OF UNACCEPTABLE DATA

The objective of the processing operation is to produce a set of statistics that describes the population as accurately and clearly as possible. To meet this objective, certain unacceptable entries were edited.

In the field, questionnaires were reviewed for completeness by a census clerk or enumerator, and a followup was made for missing information. The major review occurred in the central processing office, where the editing and coding operation provided an opportunity to correct obvious errors in the respondents' entries for those items which required manual processing. In coding relationship to household head, for example, the clerk made use of written entries, which the computer is not able to read, in determining the correct entry where the machine readable item was blank or contained conflicting information. For a few of the items, the respondents' entries were reviewed for reasonableness or consistency on the basis of other information on the questionnaire. As a rule, however, editing was performed by hand only when it could not be done effectively by machine.

As one of the first steps in mechanical editing, the configuration of marks on the questionnaire was scanned electronically to determine whether it contained information for a person or merely spurious marks. If the questionnaire contained entries for at least two of the basic characteristics (relationship, sex, race, age, marital status), or for at least two relevant sample characteristics, the inference was made that the marks represented a person. Names were not used as a criterion of the presence of a person because the electronic scanning was unable to distinguish between a name and any other entry in the name space.

If any characteristics for a person were missing, they were, in most cases. supplied by allocation. Allocations, or assignments of acceptable codes in place of unacceptable entries, were needed most often where an entry for a given item was lacking or where the information reported for a person on that item was inconsistent with other information for the person. As in earlier censuses, the general procedure for changing unacceptable entries was to assign an entry that was consistent with entries for other persons with similar characteristics. Thus, a person who was reported as a 20-year-old son of the household head, but for whom marital status was not reported, was assigned the same marital status as that of the last son processed in the same age group. The assignment of acceptable codes in place of blanks or unacceptable entries, it is believed, enhances the usefulness of the data. The allocation technique may be illustrated by the procedure used in the assignment of wage or salary income. The allocation of this item was carried out in the following steps:

1. The computer stored reported wage or salary income entries, by sex, age, relationship to household head, race, major occupation group, class of worker, and number of weeks worked in 1969, for persons 14 years old and over who worked in 1969.

2. Each stored wage or salary entry was retained in the computer only until a succeeding person having the same characteristics and having wage or salary income reported was processed through the computer during the mechanical edit operation. Then the reported wage or salary income entry of the succeeding person was stored in place of the one previously stored.

3. When the wage or salary income of a person 14 years old or over who worked in 1969 was not reported or the entry was unacceptable, the wage or salary income assigned to this person was that stored for the last person who otherwise had the same characteristics.

This process insured that the distribution of wage or salary income assigned by the computer for persons of a given set of characteristics would correspond closely to the reported wage or salary income distribution of such persons in the current census.

The editing process also includes another type of correction; namely, the assignment of a full set of characteristics for a person. When there was indication that a housing unit was occupied but the questionnaire contained no information for any person, a previously processed household was selected as a substitute and the full set of characteristics for each substitute person was duplicated.

Specific tolerances were established for the number of computer allocations and substitutions that would be permitted. If the number of corrections was beyond tolerance, the questionnaires in which the errors occurred were clerically reviewed. If it was found that the errors resulted from damaged questionnaires, from improper microfilming, from faulty reading by FOSDIC of undamaged questionnaires, or from other types of machine failure, the questionnaires were reprocessed.

ALLOCATION TABLES

The extent of the various editing and allocation procedures and their effect on each of the subjects are shown in a series of allocation tables (C-1 to C-4) included in the PC(1)-C report for each State. The information shown in these tables includes (1) the percent of the total population enumerated in the sample, (2) the allocation rate for each subject, and (3) the distributions for each subject before allocation. For a given subject the distribution before allocation may be compared with the corresponding statistics shown in the detailed tables to measure the net effect of allocation. Further explanation of the allocation tables is included in Appendix C of the PC(1)-C reports.

SAMPLE DESIGN

For persons living in housing units at the time of the 1970 census, the housing unit, including all its occupants, was the sampling unit; for persons in group quarters identified in advance of the census, it was the person. In nonmail areas, the enumerator canvassed his assigned area and listed all housing units in an address register sequentially in the order in which he first visited the units whether or not he completed the interview. Every fifth line of the address register was designated as a sample line, and the housing units listed on these lines were included in the sample, Each enumerator was given a random line on which he was to start listing and the order of canvassing was indicated in advance, although the instructions allowed some latitude in the order of visiting addresses. In mail areas, the list of housing units was prepared prior to Census Day either by employing commercial mailing lists corrected through the cooperation of the post office or by listing the units in a process similar to that used in nonmail areas. As in other areas, every fifth housing unit of these lists was designated to be in the sample. In group quarters, all persons were listed and every fifth person was selected for the sample.

This 20-percent sample was subdivided into a 15-percent and a 5percent sample by designating every fourth 20-percent sample unit as a member of the 5-percent sample. The remaining sample units became the 15-percent sample. Two types of sample questionnaires were used, one for the 5-percent and one for the 15percent sample units. Some questions were included on both the 5-percent and 15-percent sample forms and therefore appear for a sample of 20 percent of the units in the census. Other items appeared on either the 15-percent or the 5-percent questionnaires. The sample rates for the various items appearing in this report are shown in table A.

Although the sampling procedure did not automatically insure an exact 20-percent sample of persons or housing units in each locality, the sample design was unbiased if carried through according to instructions; generally for larger areas the deviation from 20 percent was found to be quite small. Biases may have arisen, however, when the enumerator failed to follow his listing and sampling instructions exactly. Quality control procedures were used throughout the census process, however, and where there was clear evidence that the sampling procedures were not properly followed, some enumerators' assignments were returned to the field for resampling. Estimates for the United States as a whole indicate that 19.6 percent of the total population was enumerated on sample questionnaires. The com-

APPENDIX C—Continued

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putation of this proportion excluded several classes of the population for which no attempt at sampling was made. These were the relatively small numbers of persons and housing units (in most State, less than one percent) added to the enumeration from the post-census post office check, the various supplemental forms, and the special check of vacant units. However, the ratio estimation procedure described below adjusts the sample data to reflect these classes of population and housing units.

RATIO ESTIMATION

The statistics based on 1970 census sample data are estimates made through the use of ratio estimation procedures, which were applied separately for the 5-, 15-, and 20-percent samples. The first step in carrying through the ratio estimates was to establish the areas within which separate ratios were to be prepared. These are referred to as "weighting areas." For the 15- and 20-percent samples, the weighting areas contained a minimum population size of 2,500. The weighting areas used for the 5-percent ratio estimate were larger areas, having a minimum population size of 25,000 and comprising combinations of the weighting areas used for the 15- and 20-percent samples, Weighting areas were established by a mechanical operation on the computer and were defined to conform, as nearly as possible, to areas for which tabulations are produced. Where these areas do not agree (primarily for smaller areas),

TABLE A. Sample Rates for Subjects Included in this Report

Subject	Sample rate (percent)	Subject	Sample rate (percent)
Sex Race Age Household relationship Family composition Families and subfamilies Type of group quarters Marital status Children ever born State of birth Country of origin Spanish origin or descent Nativity and parentage	20 20 20 20 20 20 20 20 20 20 20 20 20 5	Mother tongueSpanish heritage1School enrollmentYears of schoolcompletedEmployment statusLabor force participationWeeks worked in 1969OccupationIndustryClass of workerIncome	15 15 15 20 20 20 20 20 20 20 20 20 20 20 20 20

¹The identification of Spanish surname was performed for both the 15-percent and 5-percent samples, but, for this report, the data were tabulated from the 15-percent sample only.

there may be some differences between complete counts and sample estimates.

The ratio estimation process operated in three stages. The first stage employed 19 household-type groups (the first of which was empty by definition). The second stage used two groups, head of household and not head of household, and the third stage used 24 age-sex-race groups.

Group

	STAGE I
	Male head with own children under 18
1	1-person household
2	2-person household
3	3-person household
•	
•	,
6	6-or-more-person household
	Male head without own children under 18
7-12	1-person to 6-or-more- person households
	Female head
13-18	1-person to 6-or-more- person households
19	Group quarters persons
	STAGE II
20	Head of household
21	Not head of household
	(including persons in group quarters)
	STAGE III
	Male Negro
22	Age under Б years
23	5-13
24	14-24
25	25-44
26	45-64
27	65 and older

Male, not Negro

28-33 Same age groups as for Male Negro

Female Negro

34-39 Same age groups as for Male Negro

Female, not Negro

40-45 Same age groups as for Male Negro

At each stage, for each of the groups, the ratio of the complete count to the weighted sample count of the population in the group was computed and applied to the weight of each sample person in the group. This operation was performed for each of the 19 groups in the first stage, then for the two groups in the second stage and finally for the 24 groups in the third stage. As a rule, the weighted sample counts within each of the 24 groups in the third stage should agree with the complete counts for the weighting areas. Close, although not exact, consistency can be expected for the two groups in the second stage and the 19 groups in the first stage.

There are some exceptions to this general rule, however, As indicated above, there may be differences between the complete counts and sample estimates when the tabulation area is not made up of whole weighting areas. Furthermore, in order to increase the reliability, a separate ratio was not computed in a group whenever certain criteria pertaining to the complete count of persons and the magnitude of the weight were not met. For example, for the 20-percent sample the complete count of persons in a group had to exceed 85 persons and the ratio of the complete count to the unweighted sample count could not exceed 20. Where these criteria were not met, groups were combined in a specific order until the conditions were met.

Where this occurred, consistency between the weighted sample and the complete counts would apply as indicated above for the combined group but not necessarily for each of the groups in the combination.

Each sample person was assigned an integral weight to avoid the complications involved in rounding in the final tables. If, for example, the final weight for a group was 5.2, one-fifth of the persons in the group (selected at random) were assigned a weight of 6 and the remaining four-fifths a weight of 5.

The estimates realize some of the gains in sampling efficiency that would have resulted had the population been stratified into the groups before sampling. The net effect is a reduction in both the sampling error and possible bias of most statistics below what would be obtained by weighting the results of the sample by a uniform factor (e.g., by weighting the 20percent sample results by a uniform factor of 5). The reduction in sampling error will be trivial for some items and substantital for others. A byproduct of this estimation procedure is that estimates for this sample are, in general, consistent with the complete count for the population groups used in the estimation procedure. A more complete discussion of the technical aspects of these ratio estimates will be presented in a separate report.

SAMPLING VARIABILITY

The estimates from the 20, 15, and 5-percent sample tabulations are subject to sampling variability. The standard errors of these estimates can be approximated by using the data in tables B through D. The chances are about 2 out of 3 that the difference (due to sampling variability) between the sample estimate and the figure that would have been obtained from a complete count of the population is less than the standard error. The chances are about 19 out of 20 that the difference is less than twice the standard error and about 99 out of 100 that it is less than 2½ times the standard error. The amount by which the estimated standard error must be multiplied to obtain other odds deemed more appropriate can be found in most statistical textbooks. The sampling errors may be obtained by using the factors shown in table D in conjunction with table B for absolute numbers and in conjunction with table C for percentages. These tables reflect the effect of simple response variance, but not of bias arising in the collection, processing, and estimation steps nor of the correlated errors enumerators introduce; estimates of the magnitude of some of these factors in the total error are being evaluated and will be published at a later date.

Table B shows approximate standard errors of estimated numbers for most statistics based on the 20-percent sample. In determining the figures for this table, some aspects of the sample design, the estimation process, and the population of the area over which the data have been compiled are ignored. Table C shows standard errors of most percentages based on the 20-percent sample. Linear interpolation in tables B and C will provide approximate results that are satisfactory for most purposes. Table D provides a factor by which the standard errors shown in tables B or C should be multiplied to adjust for the combined effect of the sample size (i.e., whether a 20-percent. 15-percent, or 5-percent sample), the sample design, and the estimation procedure.

To estimate the standard error for a given characteristic based on the 15or 5-percent sample, or for a more

APPENDIX C—Continued

precise estimate for the 20-percent sample, locate in table D the factor applying to the characteristic and sample size used to tabulate the data and multiply this factor by the standard error found in table B or C. If the estimate is not identified in table D. use the factor shown for "all other." Where data are shown as crossclassifications of two characteristics. locate and use the larger factor. Similarly, if an item, although collected on one sample basis, has been tabulated for a smaller sample, use the factor appropriate for the smaller sample.

The standard errors estimated from these tables are not directly applicable to differences between two sample estimates. In order to estimate the standard error of a difference, the tables are to be used somewhat differently in the three following situations:

1. For a difference between the sample figure and one based on a complete count (e.g., arising from comparisons between 1970 sample statistics and complete-count statistics for 1960 or 1950), the standard error is identical with the standard error of the 1970 estimate alone.

2. For a difference between two sample figures (that is, one from 1970 and the other from 1960, or both from the same census year), the standard error is approximately the square root of the sum of the squares of the standard errors of each estimate considered separately. This formula will represent the actual standard error quite accurately for the difference between estimates of the same characteristics in two different areas, or for the difference between separate and uncorrelated characteristics in the same area. If, however, there is a high positive correlation between

the two characteristics, the formula will overestimate the true standard error. The approximate standard error for the 1970 sample figure is derived directly from tables B through D. The standard error of a 25-percent 1960 sample figure may be obtained from the relevant 1960 census report or an approximate value may be obtained by multiplying the appropriate value in table B or C by 0.9.

3. For a difference between two sample estimates, one of which represents a subclass of the other, the tables can be used directly with the difference considered as the sample estimate.

The sampling variability of the medians presented in certain tables (median age, median years of school completed, and median income) depends on the size of the base and on the distribution on which the median is based. An approximate method for measuring the reliability of an estimated median is to determine an interval about the estimated median such that there is a stated degree of confidence the true median lies within the interval. As the first step in estimating the upper and lower limits of the interval (that is, the confidence limits) about the median, compute one-half the number on which the median is based (designated $\frac{N}{2}$). From table B, following the method outlined in other parts of this section, compute the standard error of an estimated number equal to $\frac{N}{2}$. Subtract this standard error from $\frac{N}{2}$. Cumulate the frequencies (in the table on which the median is based) until the total first exceeds the difference between $\frac{N}{2}$ and its standard error and by linear interpolation obtain a value corresponding to this number. In a corresponding manner, add the standard error to $\frac{N}{2}$, cumulate the frequencies in the table, and obtain a value in the table on which the median is based corresponding to the sum of $\frac{N}{2}$ and its standard error. The chances are about 2 out of 3 that the median would lie between these two values. The range for 19 chances out of 20 and for 99 in 100 can be computed in a similar manner by multiplying the standard error by the appropriate factors before subtracting from and adding to onehalf the number reporting the characteristic, Interpolation to obtain the values corresponding to these numbers gives the confidence limits for the median.

The sampling variability of a mean, such as the number of children ever born per 1,000 women or mean income, presented in certain tables, depends on the variability of the distribution on which the mean is based, the size of the sample, the sample design (for example, the use of households as the sampling unit), and the use of ratio estimates.

An approximation to the variability of the mean may be obtained as follows: compute the standard deviation of the distribution on which the mean is based; divide this figure by the square root of one-fifth of the total units in the distribution; multiply this quotient by the factor from table D appropriate to the statistic and the actual sample rate on which the mean is based. If the distribution is not published in the detailed tables, calculate the standard deviation from a comparable distribution for a larger area or for a similar population group; divide by the square root of one-fifth of the units on which the mean of interest is based; multiply the quotient by the factor from table D.

Estimated number ¹	Number of persons in area ²							
	10,000	50,000	100,000	250,000	1,000,000	3,000,000	5,000,000	20,000,000
50	15	15	15	15	15	15	15	15
100	20	20	20	20	20	20	20	20
250	30	30	30	30	30	30	30	30
500	45	45	45	45	45	45	45	45
1,000	60	60	65	65	65	65	65	65
2,500	90	95	100	100	100	100	100	100
5,000	100	130	140	140	140	140	140	140
10,000	•••	180	190	200	200	200	200	200
15,000		200	230	240	240	240	240	240
25,000	•••	220	270	300	310	310	320	320
50,000			320	400	440	440	440	450
75,000			270	450	520	540	540	540
100,000	•••)		490	600	620	630	630

TABLE B. Approximate Standard Error of Estimated Number Based on 20-Percent Sample

(Range of 2 chances out of 3; for factors to be applied see table D and text)

¹For estimated numbers larger than 100,000, the relative errors are somewhat smaller than for 100,000.

²An area is the smallest complete geographic area to which the estimate under consideration pertains. Thus, the area may be the State, city, county, standard metropolitan statistical area, urbanized area, or the urban or rural portion of the State or county. The Negro population and persons of Spanish heritage do not represent complete areas.

TABLE C. Approximate Standard Error of Estimated Percentage Based on 20-Percent Sample

(Range of 2 chances out of 3; for factors to be applied see table D and text)

Estimated percentage	Base of percentage								
	500	1,000	2,500	10,000	25,000	100,000	250,000		
2 or 98	1.3	0.9	0.6	0.3	0.2	0.1	0.1		
5 or 95	2.0	1.4	0.9	0.4	0.3	0.1	0,1		
10 or 90	2.7	1.9	1.2	0.6	0.4	0.2	0.1		
25 or 75	3.9	2.7	1.7	0.9	0.5	0.3	0.2		
50	4.5	3.2	2.0	1.0	0.6	0.3	0.2		

APPENDIX C—Continued

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Characteristic		Characteristic	Factor ¹	
Negroes-Southern States	0.8	School enroliment	1.0	
–Other	1.4	Years of school completed	1.0	
Age	0.8	Labor force status	0.8	
Household relationship	0.5	Unemployed	1.1	
Families and subfamilies ²	0.6	Weeks worked in 1969	0.8	
Unrelated individuals	1.3	Occupation	1.1	
Type of group quarters	0.6	Industry	1.1	
Marital status	0.6	Class of worker	1.1	
State of birth	1.3	Income-Persons	1.0	
Spanish origin or descent	2.9	-Families	1.0	
Mother tongue	1.8	Poverty status—Persons	1.8	
Nativity and parentage	1.7	Families	1.1	

TABLE D. Factor to be Applied to Standard Error

¹Tabulations of data for persons of Spanish heritage are based on the 15-percent sample. For characteristics shown in this table as based on the 20-percent sample, the factor for persons of Spanish heritage is obtained by multiplying the appropriate factor in this table by 1.2. For characteristics shown as based on the 15-percent sample, the factor in this table can be used directly.

²When using table B to determine the standard error for a count of families, use the column in table B appropriate to the total number of families (rather than the total population) in the area under consideration.

Appendix D.—–PUBLICATION AND COMPUTER SUMMARY TAPE PROGRAM

The results of the 1970 Census of Population and Housing are being issued in the form of printed reports, microfiche copies of the printed reports, computer summary tapes, computer printouts, and microfilm. Listed below are short descriptions of the final report series and computer tapes, as currently planned. More detailed information on this program can be obtained by writing to the Publications Distribution Section, Bureau of the Census, Washington, D.C. 20233.

Population Census Reports

Volume I. CHARACTERISTICS OF THE POPULATION

This volume will consist of 58 "parts"-number 1 for the United States, numbers 2 through 52 for the 50 States and the District of Columbia in alphabetical order, and numbers 53 through 58 for Puerto Rico, Guam, Virgin Islands, American Samoa, Canal Zone, and Trust Territory of the Pacific Islands, respectively. Each part, which will be a separate clothbound book, will contain four chapters designated as A, B, C, and D. Each chapter (for each of the 58 areas) will first be issued as an individual paperbound report in four series designated as PC(1)-A, B, C, and D, respectively. The 58 PC(1)-A reports have been specially assembled and issued in a clothbound book, designated as Part A.

Series PC(1)-A.

NUMBER OF INHABITANTS

Final official population counts are presented for States, counties by urban and rural residence, standard metropolitan statistical areas (SMSA's), urbanized areas, standard metropolitan county subdivisions, all incorporated places, and unincorporated places of 1,000 inhabitants or more.

Series PC(1)-B. GENERAL POPULATION CHARACTERISTICS

Statistics on age, sex, race, marital status, and relationship to head of household are presented for States, counties by urban and rural residence, SMSA's, urbanized areas, county subdivisions, and places of 1,000 inhabitants or more.

Series PC(1)-C. GENERAL SOCIAL AND ECONOMIC CHARACTERISTICS

Statistics are presented on nativity and parentage, State or country of birth, Spanish origin, mother tongue, residence 5 years ago, year moved into present house, school enrollment (public or private), years of school completed, vocational training, number of children ever born, family composition, disability, veteran status, employment status, place of work, means of transportation to work, occupation group, industry group, class of worker, and income (by type) in 1969 of families and in-dividuals. Each subject is shown for some or all of the following areas: States, counties (by urban, rural-nonfarm, and rural-farm residence), SMSA's, urbanized areas, and places of 2,500 inhabitants or more.

Series PC(1)-D. 27

DETAILED CHARACTERISTICS These reports cover most of the subjects shown in Series PC(1)-C, above, presenting the data in considerable detail and crossclassified by age, race, and other characteristics. Each subject is shown for some or all of the following areas: States (by urban, rural-nonfarm, and rural-farm residence), SMSA's, and large cities.

Volume II. SUBJECT REPORTS

Each report in this volume, also designated Series PC(2), will concentrate on a 85 particular subject. Detailed information and cross-relationships will generally be provided on a national and regional level; in some reports, data for States or SMSA's will also be shown. Among the characteristics to be covered are national origin and race, fertility, families, marital status, migration, education, unemployment, occupation, industry, and income.

Housing Census Reports

Volume I.

HOUSING CHARACTERISTICS FOR STATES, CITIES, AND COUNTIES

This volume consists of 58 "parts"—number 1 for the United States, numbers 2 through 52 for the 50 States and the District of Columbia in alphabetical order, and numbers 53 through 58 for Puerto Rico, Guam, Virgin Islands, American Samoa, Canal Zone, and Trust Territory of the Pacific Islands, respectively. Each part, which is a separate clothbound book, contains two chapters designated as A and B. Each chapter (for each of the 58 areas) is issued as an individual paperbound report in two series designated as HC(1)-A and B, respectively.

Series HC(1)-A. GENERAL HOUSING 躙 CHARACTERISTICS

Statistics on tenure, kitchen facilities, plumbing facilities, number of rooms, persons per room, units in structure, mobile home, telephone, value, contract rent, and vacancy status are presented for some or all of the following areas: States (by urban and rural residence), SMSA's, urbanized areas, places of 1,000 inhabitants or more, and counties.

Series HC(1)-B. 1 DETAILED HOUSING CHARACTERISTICS

Statistics are presented on a more detailed basis for the subjects included in the Series HC(1)-A reports, as well as on such additional subjects as year moved into unit, year structure built, basement, heating equipment, fuels, air conditioning, water and sewage, appliances, gross rent, and ownership of second home. Each subject is shown for some or all of the following areas: States (by urban, rural-nonfarm, and rural-farm residence), SMSA's, urbanized areas, places of 2,500 inhabitants or more, and counties (by rural and rural-farm residence).

Volume II.

METROPOLITAN HOUSING CHARACTERISTICS

These reports, also designated as Series HC(2), cover most of the 1970 census housing subjects in considerable detail and cross-classification. There is one report for each SMSA, presenting data for the SMSA and its central cities and places of 50,000 inhabitants or more, as well as a national summary report.

Volume III.

BLOCK STATISTICS

One report, under the designation Series HC(3), is issued for each urbanized area showing data for individual blocks on selected housing and population subjects. The series also includes reports for the communities outside urbanized areas which have contracted with the Census Bureau to provide block statistics from the 1970 census.

Volume IV.

COMPONENTS OF INVENTORY CHANGE This volume will contain data on the disposition of the 1960 inventory and the source of the 1970 inventory, such as new construction, conversions, mergers, demolitions, and other additions and losses. Cross-tabulations of 1970 and 1960 characteristics for units that have not changed and characteristics of the present and previous residence of recent movers will also be provided. Statistics will be shown for 15 selected SMSA's and for the United States and regions.

Volume V

RESIDENTIAL FINANCE

This volume will present data regarding the financing of privately owned nonfarm residential properties. Statistics will be shown on amount of outstanding mortgage debt, manner of acquisition of property, homeowner expenses, and other owner, property, and mortgage characteristics for the United States and regions.

Volume VI.

ESTIMATES OF "SUBSTANDARD" HOUSING

This volume will present counts of "substandard" housing units for counties and cities, based on the number of units lacking plumbing facilities combined with estimates of units with all plumbing facilities but in "dilapidated" condition.

Volume VII.

SUBJECT REPORTS

Each report in this volume will concentrate on a particular subject. Detailed information and cross-classifications will generally be provided on a national and regional level; in some reports, data for States or SMSA's may also be shown. Among the subjects to be covered are housing characteristics by household composition, housing of minority groups and senior citizens, and households in mobile homes.

Joint Population-Housing Reports

Series PHC(1).

CENSUS TRACT REPORTS

This series contains one report for each SMSA, showing data for most of the population and housing subjects included in the 1970 census.

Series PHC(2).

GENERAL DEMOGRAPHIC TRENDS FOR METROPOLITAN AREAS, 1960 TO 1970 This series consists of one report for each State and the District of Columbia, as well as a national summary report, presenting statistics for the State and for SMSA's and their central cities and constituent counties. Comparative 1960 and 1970 data are shown on population counts by age and race and on such housing subjects as tenure, plumbing facilities, value, and contract rent.

Series PHC(3).

EMPLOYMENT PROFILES OF SELECTED LOW-INCOME AREAS

This series consists of 76 reports, each presenting statistics on the social and economic characteristics of the residents of a particular low-income area. The data relate to low-income neighborhoods in 51 cities and seven rural poverty areas. Each report provides statistics on employment and unemployment, education, vocational training, availability for work, job history, and income, as well as on value or rent and number of rooms in the housing unit.

Additional Reports

Series PHC(E).

EVALUATION REPORTS

This open series will present the results of the extensive evaluation program conducted as an integral part of the 1970 census program, and relating to such matters as completeness of enumeration and quality of the data on characteristics.

Series PHC(R).

PROCEDURAL REPORTS

This open series presents information on various administrative and methodological aspects of the 1970 census, and will include a comprehensive procedural history of the 1970 census. The first report issued focuses on the forms and procedures used in the data collection phase of the census.

Computer Summary Tapes

The major portion of the results of the 1970 census will be produced in a set of six tabulation counts. To help meet the needs of census users, these counts are being designed to provide data with much greater subject and geographic detail than it is feasible or desirable to publish in printed reports. The data so tabulated will generally be available-subject to suppression of certain detail where necessary to protect confidentiality-on magnetic computer tape, printouts, and microfilm, at the cost of preparing the copy.

- First Count-source of the PC(1)-A reports; contains about 400 cells of data on the subjects covered in the PC(1)-B and HC(1)-A reports and tabulated for each of the approximately 250,000 enumeration districts in the United States.
- Second Count-source of the PC(1)-B, HC(1)-A, and part of the PHC(1) reports; contains about 3,500 cells of data covering the subjects in these reports and tabulated for the approximately 35,000 tracts and 35,000 county subdivisions in the United States.
- Third Count-source of the HC(3) reports; contains about 250 cells of data on the subjects covered in the PC(1)-B and HC(1)-A reports and tabulated for approximately 1,500,000 blocks in the United States.

- Fourth Count-source of the PC(1)-C, HC(1)-B, and part of the PHC(1) reports; contains about 13,000 cells of data covering the subjects in these reports and tabulated for the approximately 35,000 tracts and 35,000 county subdivisions in the United States; also contains about 30,000 cells of data for each county.
- Fifth Count-contains approximately 800 cells of population and housing data for 5-digit ZIP code areas in SMSA's and 3-digit ZIP code areas outside SMSA's; the ZIP code data are available only on tape.
- Sixth Count-source of the PC(1)-D and HC(2) reports; contains about 260,000 cells of data covering the subjects in these reports and tabulated for States, SMSA's, and large cities.

The tapes are generally organized on a State basis. To use the First Count and Third Count tapes, it is necessary to purchase the appropriate enumeration district and block maps.

The term "cells" used herein to indicate the scope of subject content of the several counts refers to each figure or statistic in the tabulation for a specific geographic area. For example, in the Third Count, there are six cells for a cross-classification of race by sex: three categories of race (white, Negro, other race) by two categories of sex (male, female).

ln. addition to the above-mentioned summary tapes, the Census Bureau makes available for purchase certain sample tape files containing population and housing characteristics as shown on individual census records. These files contain no names or addresses, and the geographic identification is sufficiently broad to protect con-tidentiality. There are six files, each con-taining a 1-percent national sample of persons and housing units. Three of the files are drawn from the population covered by the census 15-percent sample and three from the population in the census 5-percent sample. Each of these three files provides a different type of geographic information: One identifies individual large SMSA's and, for the rest of the country, groups of counties; the second identifies individual States and, where they are sufficiently large, provides urban-rural and metropolitannonmetropolitan detail; and the third identifies State groups and size of place, with each individual record showing selected characteristics of the person's neighborhood,