

# DATA TAPES



SOCIAL SCIENCE DATA ARCHIVE / Survey Research Laboratory / University of Illinois

No. 6

May, 1974

## URBANA-CHAMPAIGN CENSUS USERS

Subject to availability of funds, plans are being made to provide a full-time programmer in the Data Analysis section of SRL to access census data for users on the Urbana-Champaign campus. This programmer will be trained to use software (computer programs) already operational on the Chicago Circle campus. The programmer, using the Urbana computer, will access the census data from the Chicago Circle computer and retrieve (on paper, tape, or disk) the data on the Urbana computer. The two computers will be connected by a high-speed, low-cost communications line that will give the Urbana user complete access to all of the census files at Chicago Circle. As the specifics of this plan become available, users will be notified.

If data are needed before the new system is in operation, Urbana staff members can set up an account on the Chicago Circle campus for census use. For details, contact George Zakharia at 3-3494 on the Urbana campus or Daniel Amick at 5304 on the Chicago Circle campus.

## 1970 PUBLIC USE SAMPLES NOW AVAILABLE

In order to meet the requests of census data users whose statistical needs cannot be met with the standard printed census reports or computer summary tapes, the Bureau of the Census has created special public use samples of modified 1970 census individual basic records. These public use sample files contain no names or addresses and only limited geographic information in order to avoid identifying any individual or household. From a randomly-drawn sample of individual households, they provide demographic, social, and economic characteristics in coded form for each person in these households. Information is also provided about the housing unit itself. A list of the items included in the samples is presented in the Appendix.

The public use samples are useful to researchers interested in detailed relationships among demographic variables for individuals. From these samples, tabulations of the basic census data can be prepared to fit the user's specific needs.

Published occasionally by the Survey Research Laboratory, University of Illinois, 414 David Kinley Hall, Urbana, Illinois 61801, and 4075 Behavioral Sciences Building, Chicago, Illinois 60680. Editor: Mary A. Spaeth.

The primary sample size is one-in-a-hundred (1/100), or one sample unit (household, vacant unit, or person in group quarters) for every 100 such units in the population. The samples are self-weighting; that is, each person or household is assigned a weight of 100. Thus, in order to estimate the frequency of a particular characteristic for the entire population, a user multiplies his tabulations by 100.

Public use 15% and 5% samples have been created separately since the two long-form census questionnaire forms used in the 1970 census for these two samples contained many different questions. Because of the varying needs that the samples are designed to meet, different versions have been made available by the Census Bureau, each containing a different type of geographic identification for the records on the tape.

One version of the public use samples identifies the most common statistical unit, each state, regardless of size. No geographic subdivisions of the states are identified, although residence in particular types of areas is indicated on individual records in most states. The Social Science Data Archive has both the 5% and 15% data state samples for all the midwestern states.

A second version of public use samples identifies particular sets of county groups. For these samples, the nation has been divided into areas and sub-areas, each of which has a population of 250,000 or more. Most SMSAs of 250,000 or more population are identified as sub-areas. SSDA holds the 5% data county group samples for the entire Midwest.

Using the public use sample files available in its archive, SSDA can retrieve large amounts of data (involving many tabulations) or specific tabulations, depending on the specific user's needs. Because of the characteristics of the samples, data on individuals and households are involved rather than summaries

for geographic areas. Among users of SSDA's public use sample files have been economists and sociologists on both University of Illinois campuses.

#### TYPES OF CENSUS PROJECTS

In addition to projects utilizing the public use samples just described, SSDA has three main categories of census projects involving the use of various types of software.

#### Large Data Retrieval Projects

Many users, particularly city and/or regional planners, want all the census data for their particular area. Using the complete census tapes for an area, we have programs that will provide a complete social and demographic report for counties, townships, incorporated places, and their subdivisions, i.e., census tracts.

For example, the City of Evanston wanted everything about Evanston, and the Greater Wabash Regional Planning Commission asked for the complete census data on the area it covered. Other users for this type of project have included the City of Danville, the Tri-County Regional Planning Commission (Peoria, Woodford, and Tazewell Counties), the City of Joliet, and the Lake County Economic Opportunity Council.

#### Selected Tabulation Projects

Many users are from agencies and academic institutions with specific projects requiring selected data tabulations from the census file that may report on one or several geographic areas in Illinois and/or Indiana. For example, a user might want tabulations for educational level by sex or by nativity. To produce these specific tabulations, we use software that picks out selected tabulations and can aggregate the totals over several areas, such as townships, to produce a final report.

Academic users of this type of program have included the Departments of Sociology and Economics, the Coordinated Science Laboratory, and the Institute for Government and Public Affairs at the University of Illinois at Urbana-Champaign and the Office of the Chancellor, the Economics Department, and the College of Education at the Chicago Circle campus. Illinois state governmental agencies requiring selected tabulations have been the Departments of Personnel, Mental Health, and Finance and the Bureau of Employment Security. Other users have included the Suburban Library System, College of DuPage, and Northlake Community Hospital.

### Special Programming Projects

Some users have unique data requests that require our staff to develop special programs to manipulate and report census data. A good example and a popular program for a series of ongoing projects is a special system that SSDA has designed to aggregate census data in three concentric circle zones from any particular site. For instance, a hospital may be interested in the area it serves and want a report that aggregates census tract or township information at one, three, and six miles out from its location (the size of the zones is arbitrary). Similarly, shopping center builders and lessors might want to learn the characteristics of their potential clientele. Various other special purpose programs have been or can be developed to fit the needs of a specific user.

### DATA AVAILABLE FROM SSDA

SSDA currently holds 143 data sets that are available for secondary analysis. The majority of these data sets are from SRL studies, with data from 83 such studies included in the archive. The collection also contains 18 studies from the Survey Research Center at the University of Michigan. These holdings basically

involve the SRC election studies for 1948-1968 and also include the 1951 Foreign Affairs Study, the 1954 Domestic Affairs Study, and several other political behavior studies. Nine studies from the National Opinion Research Center are held in the archive, including the Almond-Verba Five-Nation Study, the first (1972) wave of the National Data Program for the Social Sciences, and several foreign affairs studies.

Other archive holdings include three studies from the International Data Library and Reference Service at the University of California, Berkeley; three from the Political Science Research Library and Political Data Program at Yale; and data from the Census Bureau's 1967 County and City Data Book and the 1/1,000 sample from the 1960 Census of Population and Housing.

A list and description of SSDA's available holdings can be obtained by calling Noel Uri at 3-6572 on the Urbana campus or Daniel Amick at 5304 on the Chicago Circle campus. This listing is available as a complete inventory of diffusible holdings or as selected holdings of particular interest to the following specific fields:

- Agricultural Economics
- American Government
- Business & Business Administration
- Comparative Government & International Relations
- Economics
- Education
- Journalism & Communications
- Labor & Industrial Relations
- Marketing & Advertising
- Mental Health
- Political Behavior
- Psychology
- Sociology
- State & Local Government

SSDA can provide from its holdings either entire data sets or selected variables on cards, tapes, or other storage media. Complete documentation including detailed

codebooks and cumulative and marginal frequency distributions are available. For the SRL studies, sampling and field reports are also available.

SSDA is also seeking new data to store and distribute. We welcome information on any survey that might be of use for secondary analysis. In many cases, data collected for doctoral dissertations will be considered. We will also help users to secure data from other archives. If readers have suggestions concerning data holdings that SSDA might acquire, please write the archive or call 3-6572 (Urbana) or 5304 (Chicago Circle).

#### NEW SOCIAL SCIENCE ARCHIVE AT ISR

Under a grant from the National Science Foundation, the Institute for Social Research at the University of Michigan has established the ISR Social Science Archive to house and make accessible to scholars and researchers at reproduction cost original data from a selection of its major surveys conducted over the past 25 years. Data set holdings currently available from SSA are *Youth in Transition*, a 1966-1970 panel study directed by Jerald Bachman; *Justifying Violence: Attitudes of American Men*, a 1969 study by Monica D. Blumenthal, Robert L. Kahn, and Frank M. Andrews; *The Study of Racial Attitudes in Fifteen American Cities*, conducted in 1968 by Angus Campbell and Howard Schuman; the *1967 National Survey of Youth*, by Martin Gold and Jay R. Williams; the 1957 study, *Americans View Their Mental Health*, by Gerald Gurin, Joseph Veroff, and Sheila Feld; the *1969-1970 Survey of Working Conditions*, by Robert P. Quinn, Stanley F. Seashore, and Thomas W. Mangione; and the *SRC Economic Behavior Program's Survey of Consumer Finances* for 1947-1959.

Fully processed SSA data are distributed on magnetic tape in both card image and the ISR-developed OSIRIS formats with printed codebooks that contain detailed

information regarding use of the data. The documentation may also be obtained in machine-readable form. In addition, SSA will make some studies available after only limited processing and essentially in the form in which they are received from the investigator.

Resources of the new archive will complement those of the Inter-university Consortium for Political Research and the Economic Behavior Program. Further information, data, and documentation may be obtained by writing to Ms. Ann Robinson, Assistant Director, ISR Social Science Archive, Box 1248, Ann Arbor, Michigan 48106. Users at Consortium member institutions may obtain SSA data sets through the ICPR Survey Research Archive in accordance with its standard servicing procedures.

#### SSDA INQUIRIES

Any inquiries regarding census data or other services of SRL's Social Science Data Archive should be directed to one of the following persons:

Daniel Amick  
Survey Research Laboratory  
Box 6905  
University of Illinois at Chicago  
Circle  
Chicago, Illinois 60680  
Phone: (312) 996-5304

or

Noel Uri  
Survey Research Laboratory  
Room 11, David Kinley Hall  
University of Illinois at Urbana-  
Champaign  
Urbana, Illinois 61801  
Phone: (217) 333-6572

Inquiries regarding census data that are beyond the scope of SSDA's capabilities will be forwarded to the Census Bureau.

APPENDIX

ALPHABETICAL INDEX TO POPULATION AND HOUSING ITEMS  
IN THE STATE AND COUNTY PUBLIC USE SAMPLES

<u>Access to Unit</u>	H19	Children Under 18, Number in Household	H77
Activity 5 Years Ago	P32,P33,P34	Citizenship	P72(5%)
Age	P9-11	Class of Worker	P30
Age at First Marriage	P77-78(5%)	Class of Worker 5 Years Ago	P93(5%)
Age of Head	H72-73	Clothes Dryer	H63(5%)
Age (Quarter of Birth)	P12	Clothes Washing Machine	H62(5%)
Air Conditioning	H59(15%)	College Attendance (See Highest Grade Attended and Finished Grade)	
Allocations, Housing	H95-H119	College Attendance 5 Years Ago	P34
Allocations, Population	P104-P119	Color or Race	P7
Armed Forces Status (See Employment Status Recode)		Commercial Establishment on Property	H28
Armed Forces 5 Years Ago	P33	Complete Kitchen Facilities	H20
Attending College 5 Years Ago	P34	Contract Monthly Rent	H31-33
Automobiles	H60(15%)	Cooking Fuel	H58(5%)
<u>Basement</u>	H26	Country of Birth	P15-16
Bathrooms, Number of	H58(15%)	Country of Birth of Parent	P71-72(15%)
Bathtub or Shower	H24	Country of Residence 5 Years Ago	P77-78(15%)
Battery-Operated Radio	H68(5%)	Cutoff, Poverty	P60-61
Bedrooms, Number of	H61(5%)	<u>Disability, Duration of</u>	P84(5%)
Birth, Place of	P14,P15-16	Disability which Limits Work	P82(5%)
Business (nonfarm) or Professional Practice, Earnings from	P40-42	Disability which Prevents Work	P83(5%)
Business, Type of (See Industry)		Dishwasher	H64(5%)
<u>Central City/Non-Central City</u>	H11(St)	Dryer, Clothes	H63(5%)
Chief Income Recipient	P55	Duration of Disability	P84(5%)
Childhood Language	P73-74(15%)	Duration of Vacancy	H17
Children Ever Born	P20-21	<u>Earnings, by Type</u>	P37-45
Children Under 6, Number in Household	H78	Education (See Highest Grade Attended, Finished Grade, and Vocational Training)	

\*The P or H prefix to the number indicates the Person or Housing record. Items unique to either the 15% or the 5% sample are so designated with a parenthetical suffix to the item number, e.g., H56(15%)

Electricity, Average Cost	H38-39	Gross Rent as a Percentage of Family Income	H88
Electricity, Payment of	H37	Group Quarters Status	P66
Elevator, Passenger	H57(5%)	Group Quarters Type	P4-5
Employment Status Recode	P31	Heating Equipment	H51
Employment Status 5 Years Ago	P32	Heating Fuel	H59(5%)
Family Income	H85-87	Highest Grade Attended	P17-18
Family Income, Ratio to Poverty Cutoff	P59	Hot and Cold Piped Water	H22
Family Poverty Cutoff	P60-61	Hours Worked	P22
Family Relationship Summary	P68-69	Household Relationship	P1,P2
Family Size	P62-63	Household Size (Persons in Unit)	H12-13
Family Type	P67	Household Type	H70
Family Unit Membership	P66	Immigration, Year of	P73-74(5%)
Farm Earnings	P43-45	Income, by Type (See also Earnings)	P46-54
Farm Products, Sales of	H55	Income, Chief Recipient	P55
Farm Residence (See Location of Structure and Sales of Farm Products)		Income, Family	H85-87
Fertility (See Children Ever Born)		Income, Family, Ratio to Poverty Cutoff	P59
Field of Vocational Training	P81(5%)	Income from All Other Sources	P52-54
Flush Toilet	H23	Income, Person's Total	P56-58
Foreign Stock (See Country of Birth and Country of Birth of Parent)		Industry, Current	P24-26
Foundation, Type of (Basement)	H26	Industry 5 Years Ago	P87-89(5%)
Freezer, Home Food	H65(5%)	Institution, Type of	P4-5
Fuel for Cooking	H58(5%)	Kitchen Facilities	H20
Fuel for House Heating	H59(5%)	Labor Force Status (See Employment Status Recode)	
Fuel for Water Heating	H60(5%)	Language Spoken in the Home	P73-74(15%)
Fuel, Payment of	H47	Location of Structure	H54
Fuel, Yearly Cost of	H48-50	Low Income Status (See Poverty Status)	
Gas, Average Monthly Cost	H41-42	Marital History (See Times Married, Termination of First Marriage by Death of Spouse, Age at First Marriage, and Quarter of First Marriage)	
Gas, Payment of	H40		
Gross Monthly Rent	H34-36		

Marital Status	P13	Place of Work: SMSA Recode	P86(15%)
Means of Transportation to Work	P90(15%)	Place of Work: State Recode	P89(15%)
Metropolitan/Nonmetropolitan	H10(St only)	Plumbing Facilities	H25
Metropolitan Residence 5 Years Ago	P96(15%)	Poverty Cutoff	P60-61
Military Service	P80(15%) to P85(15%)	Poverty Status	P59
Mother Tongue	P73-74(15%)	Professional or Business Earnings	P40-42
Nativity and Parentage	P70(15%)	Property, Commercial Use of	H28
Nonrelative in Household, Presence of	H82	Property, Value of	H29-30
Occupation, Current	P27-29	Public Assistance Income	P49-51
Occupation 5 Years Ago	P90-92(5%)	Puerto Rican Stock	P91(15%)
Other Income	P52-54	Puerto Rican Stock (Head)	H91(15%)
Other Non-relative in Household	H82	Quarter of Birth	P12
Own Children, Presence of	P67	Quarter of First Marriage	P79(5%)
Parent's Country of Birth	P71-72(15%)	Race	P7
Parents' Place of Birth Recode	P70(15%)	Race of Head	H71
Passenger Elevator	H57(5%)	Radio, Battery-Operated	H68(5%)
Period of Military Service	P81(15%) to P85(15%)	Ratio of Family Income to Poverty Cutoff	P59
Persons in Unit	H12-13	Ratio of Gross Rent to Family Income	H88
Persons per Room	H84	Ratio of Property Value to Family Income	H89
Persons 60+ Excluding Head	H80	Record Type Indicator	H120,P120
Persons 65 and Over in Household	H79	Related Children under 18	H77
Persons under 18 in Household	H76	Related Children under 6	H78
Place of Birth (State or Country)	P15-16	Relationship to Head, Basic	P1
Place of Birth (Country) of Parent	P71-72(15%)	Relationship to Head, Detailed	P2
Place of Birth Recode	P14	Relationship within Family	P68-69
Place of Residence 5 Years Ago	P76(15%)	Relative other than Wife or Child, Presence of	H83
		Rent, Contract Monthly	H31-33
		Rent, Gross Monthly	H34-36
		Rent/Income Ratio (Gross Rent as a Percentage of Income)	H88

Residence 5 Years Ago	P76(15%) or P85-86(5%)	Stories in Structure, Num- ber of	H56(5%)
Roomer, Boarder, or Lodger, Presence of	H81	Subfamily Membership Num- ber	P3
Rooms, Number of	H21	Subfamily Relationship	P64
Salary Income	P37-39	Subfamily Size	P62-63
Sales of Farm Products	H55	Subfamily Type	P65
Sample Identifier	H1	Subsample Number	H93-94
School Attendance (See Finished Grade)		Substitution of Household	H95
School Level (See Highest Grade Attended)		Substitution of Person	P104
School, Type of	P79(15%)	Telephone Available	H18
Seasonal and Migratory Vacancy Status	H16	Television	H66(5%)
Second Home	H69(5%)	Television, UHF-equipped	H67(5%)
Self-employment Income	P40-42	Tenure	H27
Sewage Disposal	H57(15%)	Termination of First Mar- riage by Death of Spouse	P76(5%)
Sex	P6	Times Married	P75(5%)
Size of Family of Subfamily	P62-63	Toilet Facilities (Flush Toilet)	H23
Social Security Income	P46-48	Transportation to Work	P90(15%)
Source of Water	H56(15%)	UHF-equipped Television	H67(5%)
Spanish-American Recode	P93(15%)	Units at Address	H14-15
Spanish-American Recode (Head)	H75(15%)	Units in Structure	H53
Spanish Descent, Detailed	P71(5%)	Urban/Rural Residence	H9(St)
Spanish Descent Recode	P70(5%)	Use of Property (Commercial Use)	H28
Spanish Descent Recode, (Head)	H75(5%)	Vacancy, Duration of	H17
Spanish Mother Tongue	P92(15%)	Vacancy Status	H16
Spanish Mother Tongue (Head)	H92(15%)	Value of Property	H29-30
Spanish Surname	P8	Value/Income Ratio	H89
Spanish Surname (Head)	H74	Veteran's Period of Service	P81(15% to P85(15%))
State of Birth	P15-16	Veteran Status	P80(15%)
State of Residence	H78(St only)	Vocational Training	P80(5%)
State of Residence 5 Years Ago	P77-78(15%) or P85-86(5%)	Vocational Training, Main Field of	P81(5%)
		Wages	P37-39



Washing Machine	H62(5%)	Work Location (See Place of Work)	
Water Heating Fuel	H60(5%)		
Water, Payment of	H43	<u>Year</u> Head Moved into Unit	H90(15%)
Water Supply (Hot and Cold Piped Water)	H22	Year Last Worked	P23
Water Source	H56(15%)	Year Moved into Unit	P75(15%)
Water, Yearly Cost of	H44-46	Year of Immigration	P73-74(5%)
Weeks Worked	P36	Years of School Completed (See Highest Grade Attended)	
Welfare Income	P49-51	Year Structure Built	H52
Worked Last Year	P35		
Working 5 Years Ago	P32		