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An Overview of the LBL SOCIO-ECONOMIC-ENVIRONMENTAL-DEMOGRAPHIC INFORMATION SYSTEM

LAWRENCE BERKELEY LABORATORY

UNIVERSITY OF CALIFORNIA

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AN OVERVIEW OF THE LBL SOCIO-ECONOMIC-ENVIRONMENTAL-DEMOGRAPHIC INFORMATION SYSTEM (SEEDIS)

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ABSTRACT

A SOCIO ECONOMIC ENVIRONMENTAL DEMOGRAPHIC INFORMATION SYSTEM (SEEDIS) HAS BEEN DEVELOPED BY THE MATHEMATICS AND COMPUTING GROUP OF LAWRENCE BERKELEY LABORATORY. THIS PAPER INDICATES THE PHILOSOPHY AND MOTIVATION WHICH LED TO THE DEVELOPMENT OF SEEDIS AND BRIEFLY DESCRIBES EACH OF ITS COMPONENT PROJECTS. APPENDICES INCLUDE A LISTING OF LBL'S CURRENT DATA BASES, DESCRIPTIONS AND SAMPLE FORMATS OF REPORTS PREPARED FOR THE MANPOWER INDICATOR PROGRAM, AND A DESCRIPTION OF AND EXAMPLES OF MAPS GENERATED UTILIZING THE LBL COMPUTER MAPPING SYSTEM.

MARCH, 1975

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SEEDIS

INTRODUCTION

For the past three years the Lawrence Berkeley Laboratory's Mathematics and Computing Group has been engaged in the design and implementation of a Socio-Economic-Environmental-Demographic Information System (SEEDIS). It is generally acknowledged that LBL and the other National ERDA Laboratories are leaders in the development of computing techniques for data storage and retrieval, data analysis and graphical display systems. The development of SEEDIS provided a medium for direct application of this expertise as well as an opportunity for involvement in the fields of environmental quality and energy resources which are now part of the broadened ERDA mission. While ERDA-supported research formed the basis of the development of SEEDIS, the major efforts were funded primarily by other Federal agencies, including the Department of Labor, the Bureau of the Census and the Army Corps of Engineers. These projects were undertaken through inter-agency agreements between the ERDA and the participating Federal agencies.

While the motivation of each funding agency in supporting SEEDIS has been to meet its own programmatic requirements, the analytic tools and systems developed in response to any specific project have proved generally applicable. Thus, the potential applications of systems developed for any given SEEDIS project far exceed the limited scope of work for that particular project. This research has been truly "interagency" in that participating agencies have mutually benefited from the tools and data made available through previous or concurrent SEEDIS development. Moreover, the demand for information generated through the system has increased to the extent that we are now investigating the feasibility of having the National Technical Information Service of the Department of Commerce distribute these materials.

SEEDIS projects have resulted in the development of data base management techniques, manipulation of large quantities of data, interactive retrieval of data, utilization of data gathered for one purpose for ancillary uses, digital encoding of geographical boundaries, and computer simulation and modeling. The SEEDIS data base presently includes most of the 1970 Census of Population and Housing, various censuses of agriculture, manufacturers and transportation, data on employment, commodity flows, business patterns and income, and a large set of geographic base files (see Appendix A for a listing of current LBL data bases). These data form the basic building blocks for the information systems required for a variety of environmental and economic impact models used in ERDA's energy resource assessment program - models designed to provide projections of the economic consequences, environmental effects and social impact of government energy policy decisions. Information systems used for this purpose must be capable of providing not only an integrated data source to determine relevant parameters, but also methods of communicating these results in a manner readily understandable to policy planners and decision makers. The computer-based retrieval, analysis and graphic display programs developed for SEEDIS serve this function well.

DEVELOPMENT OF SEEDIS

The development of SEEDIS has required approximately 25 man-years of effort so far and is a continuing effort at LBL. It began with the acquisition of some 1000 summary tapes from the 1970 Census of Population and Housing. In order to make this large quantity of data accessible in an efficient manner, a data management system was created using a hierarchical data structure implemented on a hierarchy of on-line devices. The data is stored in random-access format on the IBM 1360 Photodigital Chipstore device (with a capacity of 50 billion characters, addressable to a level of 200 character segments). Indices to this data by geo-area were created and stored on IBM Data Cells (with a capacity of 2 billion characters and somewhat faster on-line access than the Chipstore). The heart of the system is a program which reads directives for accessing,

aggregating and disaggregating data by geocode, calculates Chipstore addresses from the indices, and retrieves the data as required. This system allows efficient retrieval of small subsets of data (down to census tract and ZIP code level) in either interactive or batch mode. Such access is not practical with magnetic tape-based systems.

Of primary importance is a set of data bases unique to LBL being integrated into a functional information system. Data were obtained in conjunction with interagency projects which required LBL's expertise and computing facilities to develop coherent data bases. For example, the Computer Mapping System Project (see Appendix C) required development of a data acquisition system to generate the geographic data base. Also, several projects pertaining to human resource availability required creation of employment/unemployment data bases from monthly reporting systems. Data bases resulting from these projects, and others described in the following sections, provide the basis for social, economic, and environmental impact studies required for energy planning and manpower allocation studies.

RELATION TO THE ERDA MISSION

In reviewing the FY 1976 - 1981 Program Planning Guidance Document for AEC Multiprogram Laboratories for both the Physical Research Program and the Biomedical and Environmental Research Program, it is evident that the systems and techniques developed in conjunction with SEEDIS and the demographic and economic data bases installed therein will provide necessary and valuable tools to support new and growing ERDA programs. The Physical Research portion of that document refers to "...a program of new Technological Initiatives to use the existing technological expertise in the high energy physics program for more immediate national goals, such as solutions to the energy problem." Digital encoding of graphical data (maps, charts), large scale data handling, computer control of large systems (power plants, utility networks), and computer simulation are listed as potential areas of investigation. In addition, the Biomedical and Environmental Research section includes among the objectives of its regional studies program development of modeling and assessment techniques and of organized regional data bases, both of which can then be applied to selected regional energy problems. Included among the list of current laboratory capabilities which must be expanded to meet these objectives are socioeconomic modeling, land use planning, and data management. Likewise, the BER portion of the guidance document recognizes the growing demand for information exchange within the scientific community and points to the need to develop techniques for handling a large number and variety of data bases and to gather and compile fully validated data more quickly.

To a limited degree, interlaboratory utilization of SEEDIS has already begun. The Los Alamos Scientific Laboratory has requested use of SEEDIS in initiating its ERDA/DBER Regional Studies Program and the ERDA Chicago Operations Office has been supplied with formatted manpower reports prepared utilizing SEEDIS which contain data pertinent to affirmative action studies. Interfacing of LBL's information system to Brookhaven National Laboratory's energy systems modeling effort is under discussion and use of LBL's economic models has been requested by Argonne National Laboratory's Energy and Environment Systems Divisions.

We believe that the SEEDIS project represents an important contribution to ERDA's program. The continuing interest of other Federal agencies in supporting this project and the valuable contribution they can make in providing source data suggest that this effort be designated a Joint Program with direction and support from ERDA.

DESCRIPTION OF INDIVIDUAL SEEDIS PROJECTS

COMPUTER MAPPING SYSTEM

A computer-based mapping system has been developed to produce high-quality, low-cost maps for graphical display of statistical data by geographical and political area and to provide an error free geographical data base for spatial analysis applications. The project consists of three major components: a system for

automatic digitizing of base maps; a system for editing, coding and retrieving the digitized maps; and a system for correlating statistical data with geographic boundaries for the production of print-quality microfilm negatives by computer (see Appendix C for more detailed descriptions of components).

At its present state of development, the geographic data base includes:

- U.S. by state (50 state boundaries)
- U.S. by county (ca. 3,200 county boundaries)
- U.S. by standard metropolitan statistical area (275 SMSA's)
- 241 SMSA's by census tract (ca. 35,000 tract boundaries)
- Point locations for some 500 cities.

The geographic data base created as a result of this project is a valuable tool not only for the display of data but also for analysis of models related to the spatial distribution of resources. This system can easily be adapted to include land use and topographic maps for use in power plant siting, transportation and environmental impact studies.

SYSTEM OF INFORMATION RETRIEVAL AND ANALYSIS FOR PLANNERS (SIRAP)

The SIRAP project provides a central repository for regional and national data bases used by the Army Corps of Engineers in cost-benefit analyses and socio-economic-environmental impact planning for their civil works construction projects. The system consists of large integrated data bases accessed over remote batch and interactive terminals at division and district offices nationwide. In addition to information retrieval and display programs, a comprehensive set of statistical analysis programs is available in the system.

Those ERDA Laboratories with remote batch access to LBL (currently these include ANL, BNL, LASL and PNL) can use SIRAP directly in their research programs. With the advent of ERDA participation in the ARPA Network, these facilities will be available to an even wider community of researchers.

MANPOWER PROFILE PROGRAM

A series of twelve basic demographic profiles containing information useful to planners and researchers in human resource programs was compiled from the 1970 Census data. The reports detail important socio-economic-demographic characteristics for any user-specified geographic or administrative area, such as states, Federal regions, counties, census tracts and aggregations of these areas. A brief summary of each of these reports and samples of representative tables are included in Appendix B.

The Manpower Profile program required the development of sophisticated data management and retrieval software in order to transform approximately 1000 tapes purchased from the Bureau of the Census into a usable data base from which individual data items can be selected and processed quickly and inexpensively. LBL's large-scale computer center facilities and expertise in computer science techniques were necessary to implement a project of this magnitude.

The data base created from the 1970 Census tapes forms a large part of SEEDIS, and is now being used with the economic and energy resource allocation models which require comprehensive profiles of the economic and demographic characteristics of the Nation. Such data is readily accessible down to the census tract, and in some cases, block group level.

HOUSING NEEDS PROJECT

A specialized data base limited to data items pertaining to the San Francisco Bay metropolitan area is being developed for use by the Association of Bay Area Governments. The data will include the entire 1970 2nd, 4th, 5th and 6th count Census of Population and Housing for that geographic area, as well as special tabulations currently being prepared by the Bureau of the Census. Data will be stored in the SEEDIS data base so that it may be randomly and rapidly accessed at various subgeographic levels within the metropolitan area. Initial studies utilizing the available information will project future housing needs and the effects

of rapid transit facilities on the area as aggregated by census tract into transportation zones.

ENERGY SYSTEMS MODELING

In collaboration with the LBL Energy and Environment Division, a multi-regional input-output model is being developed which utilizes linear programming techniques to analyze U.S. production, employment and energy use. A series of computer programs read interindustry transactions data, employment data and energy flow data, perform necessary aggregations, calculate input-output coefficients, and provide appropriate input data to the linear programming system. Current work is at the 97 industrial sector level of detail. The I-O model is being utilized to evaluate issues such as:

1) the energy and employment impacts of alternate policies for achieving U.S. energy self-sufficiency, including tradeoffs among energy, employment and national production.
2) the current patterns of energy consumption in the U.S. economy by fuel type, consuming sector and BTU content.
3) adjustments which would take place if shortages occur in particular economic sectors.

Current efforts to refine the model are directed toward:

1) updating the model to incorporate the latest input-output coefficients
2) disaggregating the energy sectors
3) incorporating inter-fuel substitution in the electricity sector
4) investigating the importance of inter-fuel substitution in other sectors
5) experimenting with different objective functions.
6) exploring the usefulness of quadratic programming for incorporating the effects of own-price elasticities.

WATER USE BY MANUFACTURING INDUSTRIES IN CALIFORNIA

A project to edit, sort, interpolate and display the California water use by industries is being completed. This data will allow for resource and location planning by state agencies, and provide a basis for water resource analysis for regional studies.

HUMAN RESOURCE AVAILABILITY STUDIES

Three projects undertaken in cooperation with the Department of Labor are providing detailed source data on employment by industry and occupation as well as total wage and salary by industry. This data will be used in labor pool studies and energy resource modeling efforts in investigating the interrelationships between energy policy alternatives and human resource development.

The Employment Projections Project enabled the Bureau of Labor Statistics (BLS) and state employment security agencies to project employment by occupation and industry to 1980 for states and metropolitan areas with populations of 250,000 and over. The project was designed in three phases. Phase I provided participating states with a regression analysis technique to develop 1980 industrial employment estimates. Phase II provided the actual employment projections to 1980 (for 422 occupations) and the total job openings in 1976 for states and metropolitan areas. Phase III developed specialized employment-industry matrices for use in developing Phase II estimates for metropolitan areas between 250,000 and 1,000,000 population.

Wage and Salary data by industrial sector and 1970 national and state occupation/industry matrices supplied by BLS as inputs to the projections project are now being utilized by LBL in conjunction with coordinated contracts from the National Science Foundation, awarded to LBL and the Center for Advanced Computation at the University of Illinois, to evaluate the energy and employment impacts of alternative policies for achieving U.S. energy self-sufficiency. BLS source data, indicated above, will be utilized in conjunction with other SEEDIS components to develop 1972 employment estimates for 470 occupational categories by state for the 368 industries defined in the Bureau of Economic Analysis input-output tables. Estimates will include the number of persons employed, jobs and man-hours.

The Regional Management Information System and the Computerized Charting for Employment Benchmark Adjustments projects involve data from several Department of Labor automated reporting systems, such as the Employment Security Automated Reporting System (ESARS) and the Employment Security-202 (unemployment insurance) reporting system. Initially, data are being received from states in Federal Regions IX and/or X for installation into an analytical data base. The data will be structured to permit update capabilities, aggregation to various geographical and industrial classification levels, and time series studies for those data items collected consistently over a period of time. Computer systems are being developed for interactive access so that researchers, managers, and administrators concerned with planning, policy revision, and modeling can have flexible, on-line access to this data. Display systems will utilize computer graphics, such as bar graphs, pie charts, and other symbolic representations as well as a gereralized report generator.

LBL has received FY 1975 ERDA funding for a regional manpower study to examine manpower constraints on energy plant construction and operation. The extraction of energy resources requires the construction and operation of large scale plants. Construction and operation of energy facilities are dependent upon the availability of labor at specific locations, many of which will be sparsely populated areas. Because of the potential mobility of labor, national as well as regional labor availability must be considered. Projections of potential labor supply by skill category for a wide range of categories are being examined assuming various levels of construction activity. Optimization techniques will be used to determine the effective allocation of human resources under different priority and policy assumptions. Detailed statistics on manpower requirements classified by industry and occupation which are essential to this project will be generated from ESARS and ES-202 data.

FUTURE SEEDIS ACTIVITY

Future directions for SEEDIS will involve major extensions of the basic types of activities described above, with emphasis in the areas of environmental quality, regional planning, and energy resources. Research will be required to further develop data management and computer software capabilities, particularly in the following areas:

1) hierarchical storage systems for large volumes of data including details of hardware configuration, physical and logical data structures
2) integration of diverse data originating from a variety of sources and collection methods
3) data transfer protocols for interlaboratory and interagency transmittal
4) synthesis, analysis and updating methodology
5) retrieval mechanisms, such as user oriented languages, graphical selection criteria, and interactive access from remote terminals
6) generalized report generator and graphical displays such as bar charts, pie charts, etc.

APPENDIX A.-CURRENT DATA BASES AT LBL

CURRENT DATA BASES AT LBL

	Approx. No. of Records	Approx. No. of Characters
DEMOGRAPHY AND SOCIAL SCIENCE		
1960 Census of Population	3,100	40 million
1970 Census of Population and Housing - 1st Count	280,000	720 million
1970 Census of Population and Housing - 2nd Count	105,000	1.4 billion
1970 Census of Population - 4th Count	86,000	5.3 billion
1970 Census of Housing (California) - 4th and 6th Count	10,000	770 million
1970 Fifth Count Census	13,000	120 million
1970 Sixth Count Census	140,000	230 million
1970 Public Use Sample	17 million	1.7 billion
County and City Data Book - County Merge, 1952, 1962, 1967	3,100	33.5 million
Current Population Survey, 1968-1973	200,000	44 million
Master Enumeration Districts (Medlist), 1970 Census	390,000	42 million
Census Data - State and County, 1970	3,100	9.6 million
Census Data - Standard Metropolitan Statistical Areas, 1970	243	775 thousand
GEOGRAPHY		
Geographic Data Base: State, County, SMSA, and Census Tract boundaries	39,000	
BUSINESS ENTERPRISE		
I-O Economic Growth Model - Data Base, 1963, 1970		
Index Items of Industrial Employment		1.75 million
I-O Tables, Mineral Industry, 1958		3.5 million
Location of Manufacturing Plants, 1963, 1967	160,000	40 million
I-O Tables - Interindustry Transactions, Direct and Total Requirements		77 million
OBERS Projections (Series E), 1950-2020	1,200	7 million
Gross Output: National and County level, 1958, 1963		10.78 million
EMPLOYMENT		
Employment Security Automated Reporting System (ESARS), from July 1973	100,000 per data set	
Employment-Occupation Projections, National, 1970 and 1980		7.1 million
Employment-Occupation Projections: State, State area, SMSA, 1970, 1980		11.26 million
LABOR FORCE, EMPLOYMENT AND EARNINGS		
Work Files: GNP by Industry, 1947-1972		6 million
County Business Patterns: National, State and County Summaries	25,000	128 million
Multi-Regional I-O Model Harvard-EDA Data Base, 1947, 1958, 1963		20 million
Income and Earnings, National, 1929-1969	3,100	37 million
Labor Statistics-EDA Eligibility Assistance	1,200	840 thousand
Employment and Earnings, National, States and areas, 1939-1972		10.1 million
Employment by Industry, BEA Sectors, 1963,1967		80 thousand
Employment by Industry & Occupation, BEA Sectors, 1963, 65, 67, 70, 72		500 thousand
TRANSPORTATION		
Transportation of U.S. Trade, 1970	55,000	20 million
Commodity Transportation Survey-Production Areas and States, 1967		15 million
Inter-Regional Commodity Flows & Projections, 1966, 1969		5 million
Inter-Regional Commodity Flow Estimates, 1963		8 million
AGRICULTURE AND HEALTH		
U.S. Census of Agriculture, 1949, 1959, 1964, 1969	12,000	84 million
Cause of Death Summary (mortality statistics), 1969-1970	90,000	
Federal Services Maxillofacial Trauma Survey	90,000	

ENVIRONMENTAL AND NATURAL RESOURCES	Approx. No. of Records	Approx. No. of Characters
National Geothermal Information Resource (GRID) 1975-1980		
Water Use in Manufacturing, National, 1954, 1958, 1963, 1968		7 million
Water Use in Industry, California by County, 1960, 1970		
Water Waste Permit Application data, San Francisco Bay Delta Area, 1970		2 million
Inland Waterways, Locks & Dams Physical data, Mississippi River, 1974	110,000	
Endangered Species Information System, National, 1972-1973		35 thousand
Energy Transactions: Five Energy Sources, 1963, 1968		40 thousand
Ozone data: Photochemistry in the stratosphere, 1957-present	19,000	1.6 million
PHYSICS		
Particle Properties: Elementary particle research data	20,000	1.6 million
Particle Reactions: Reaction data between elementary particles	250,000	40 million
Isotope Radioactive Decay	40,000	5 million
Isotope Table Scheme Level data	1,000	600 thousand
Annotated Bibliography of Nuclear data, through 1974	10,000	500 thousand
MISCELLANEOUS INVENTORY		
Wiring Configuration data: wiring layouts for engineers	1,000	2.5 million
Cable Connection data: building cable layouts	1,000	2.5 million
Equipment Characteristics: physical electrical and procurement data	1,000	5 million
Inventory: equipment locations and maintenance schedules	1,500	5 million
Building Layout: digitized lab, plumbing and electrical layout for large school	200	100 thousand
Documentation data: engineering drawing, library references & memoranda	1,000	250 thousand
Property Book Inventory, 1973, 1974	1,000	1 million
MANAGEMENT INFORMATION		
Buglist: computer system report data, 1973-1974		100 thousand
Accident Report data: employee accidents at LBL, 1972-1974	1,000	

APPENDIX B. - DEMOGRAPHIC REPORTS

DEMOGRAPHIC REPORTS

The reports listed below were developed in conjunction with the Manpower Indicator Program. Representative samples of the tabular data follow on succeeding pages. It is anticipated that current negotiations with the National Technical Information Service (NTIS) will result in a marketing and distribution system through which these reports can be made more readily available to both Federal users and the general public.

REPORT 1 - SUMMARY MANPOWER INDICATORS

An overview of 1970 population and employment data for the geographic area requested is highlighted in 14 tables and a two page prose manpower profile. The area's population characteristics are outlined in terms of race, ethnic group, sex, age, living arrangements, veteran status, mobility, educational attainment and employment status; the area's employment is described by age, race, ethnic group, educational achievement, disability status, weeks worked, occupation, industry, and class of worker; income and poverty indicators are provided.

REPORT 2 - DETAIL MANPOWER INDICATORS

This report, broadly expanding Report 1, contains 37 tables (137 pages) which feature both horizontal and vertical calculated percentages of the data as well as actual counts.

REPORT 3 - INTER-AREA MANPOWER INDICATORS

A flexible and efficient tool for determining the relative strengths and weaknesses of various political and administrative areas is provided by this report. Areas are ranked against each other utilizing population, employment, poverty status, and income data items similar to those in Report 1 and 2. The 36 tables are available for five racial breakdowns: all races, white, black, Spanish American, and other races.

REPORT 4 - MANPOWER INDICATOR ATLAS

This atlas contains 300 color maps and accompanying tables showing socio-economic-demographic data for all the counties in Federal Region IX.

REPORT 5 - ZIP CODE AREA MANPOWER PROFILE

For SMSA Zip code areas, this profile contains a very brief outline of statistics found in Report 1 as well as limited housing data.

REPORT 6 - JOURNEY TO WORK

This report contains destination data, limited to 20 selected areas, for residents of counties and cities of 2,500 or more (towns and places of 2,500 or more in New England). Counts and percent distributions are provided by five racial breakdowns (racial breakdowns are not available for New England).

REPORT 7 - COMPARATIVE INDUSTRY STRUCTURES

Like Report 3, this is a comparative report which indicates the relative ranking of areas by industrial employment levels for 51 industries. The tables are available for the same racial breakdowns as Report 3 and indicate employment count, percentage distribution, and rank for each industry.

REPORT 8 - COMPARATIVE OCCUPATIONAL STRUCTURES, BOTH SEXES

Another ranking report, this one provides employment count, percentage distribution, and rank for 53 occupations and is available for the same racial breakdowns as Report 3.

REPORT 9 - COMPARATIVE OCCUPATIONAL STRUCTURES, FEMALE

A counterpart to Report 8, this provides similar data for female employment in 39 occupations and is available for the same five racial breakdowns.

REPORT 10 - INDUSTRY MANPOWER CHARACTERISTICS

For 83 industries, this report provides a one-page-per-industry series of tables indicating labor force data by sex, age, and ethnic group for items such as employment status, earnings, weeks worked, and class of worker.

REPORT 11 - OCCUPATIONAL MANPOWER CHARACTERISTICS, MALE

Labor force statistics similar to those in Report 10 are listed on 196 pages of occupations. An educational matrix for 65 selected occupations showing years of education by three ethnic breakdowns, (white and other races, Spanish American, and black) is also provided for each geographic area.

REPORT 12 - OCCUPATIONAL MANPOWER CHARACTERISTICS, FEMALE

A companion to Report 11, statistics are provided for female employment on 111 pages of occupations; an educational matrix for 39 selected occupations showing years of education by three ethnic breakdowns (similar to Report 11) is provided for each geographic area.

U. S. DEPARTMENT OF LABOR
MANPOWER ADMINISTRATION
RUN DATE - 12 MAY 75
LAWRENCE BERKELEY LABORATORY

TABLE 1
POPULATION BY RACE, ETHNIC GROUP, SEX AND AGE
(SECOND COUNT DATA)1/

SAN FRANCISCO SMSA
CALIFORNIA

RACIAL GROUP

THE TOTAL POPULATION OF THIS AREA IN APRIL 1970 WAS 3,109,519 COMPOSED OF 534,717 (17.2 PERCENT) RACIAL MINORITIES (BLACK AND OTHER RACES) AND 2,574,802 (82.8 PERCENT WHITES. THE SPANISH-AMERICAN ETHNIC GROUP, WHICH CAN INCLUDE WHITES, BLACKS OR OTHER RACES, ACCOUNTED FOR 363,893 (11.7 PERCENT) OF THE POPULATION. THE AREA'S POPULATION INCLUDES THE FOLLOWING NUMBER OF MALES AND FEMALES IN EACH RACIAL GROUP -

	NUMBER			PERCENT DISTRIBUTION (VERTICAL)			PERCENT DISTRIBUTION (HORIZONTAL)		
RACIAL GROUP	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE
TOTAL ALL RACES	3,109,519	1,520,252	1,589,267	100.0	100.0	100.0	100.0	48.9	51.1
WHITE	2,574,802	1,256,291	1,318,511	82.8	82.6	83.0	100.0	48.8	51.2
BLACK	330,107	160,984	169,123	10.6	10.6	10.6	100.0	48.8	51.2
AMERICAN-INDIAN	12,011	5,900	6,111	0.4	0.4	0.4	100.0	49.1	50.9
JAPANESE	32,463	14,448	18,015	1.0	0.9	1.1	100.0	44.5	55.5
CHINESE	88,108	45,215	42,893	2.8	3.0	2.7	100.0	51.3	48.7
FILIPINO	44,056	23,405	20,651	1.4	1.5	1.3	100.0	53.1	46.9
HAWAIIAN	3,641	1,801	1,840	0.1	0.1	0.1	100.0	49.5	50.5
KOREAN	2,657	1,112	1,545	0.1	0.1	0.1	100.0	41.9	58.1
OTHER	21,674	11,096	10,578	0.7	0.7	0.7	100.0	51.2	48.8
ETHNIC GROUP (4TH COUNT DATA)									
SPANISH-AMERICAN	363,893	180,413	183,480	11.7	11.9	11.5	100.0	49.6	50.4

AGE

ONE-HALF THE POPULATION OF THIS AREA WAS BELOW 29.6 YEARS OF AGE. THE TABLE BELOW SHOWS THE NUMBER AND PERCENT OF INDIVIDUALS IN SELECTED AGE GROUPS. AGE DISTRIBUTION IS ONLY AVAILABLE IN THE SECOND COUNT BY TOTAL, WHITE, BLACK AND OTHER RACES. THE AGES SHOWN ARE AS OF APRIL 1970.

AGE GROUP	TOTAL	PERCENT	WHITE	PERCENT	BLACK	PERCENT	OTHER RACES	PERCENT
TOTAL	3,109,519	100.0	2,574,802	100.0	330,107	100.0	204,610	100.0
UNDER 6 YEARS	282,939	9.1	222,442	8.6	39,835	12.1	20,661	10.1
6-9 YEARS	220,233	7.1	174,028	6.8	30,820	9.3	15,385	7.5
10-11 YEARS	112,397	3.6	89,046	3.5	15,628	4.7	7,723	3.8
12-13 YEARS	110,798	3.6	88,271	3.4	15,009	4.5	7,518	3.7
14-15 YEARS	108,643	3.5	86,772	3.4	14,515	4.4	7,356	3.6
16 YEARS AND OVER	2,274,509	73.1	1,914,243	74.3	214,299	64.9	145,967	71.3
16-21 YEARS	318,865	10.3	254,606	9.9	38,622	11.7	25,637	12.5
22-44 YEARS	983,292	31.6	811,706	31.5	100,434	30.4	71,152	34.8
40 YEARS AND OVER	1,164,110	37.4	1,006,562	39.1	93,963	28.5	63,585	31.1
45 YEARS AND OVER	972,352	31.3	847,931	32.9	75,243	22.8	49,178	24.0
50 YEARS AND OVER	767,096	24.7	674,471	26.2	55,605	16.8	37,020	18.1
55 YEARS AND OVER	586,219	18.9	519,112	20.2	38,862	11.8	28,245	13.8
60 YEARS AND OVER	427,498	13.7	381,254	14.8	25,584	7.7	20,660	10.1
65 YEARS AND OVER	295,478	9.5	265,839	10.3	15,877	4.8	13,762	6.7

1/ DATA ON THIS TABLE IS FROM 100 PERCENT COUNT. ALL OTHER TABLES ARE CENSUS 20, 15, AND 5 PERCENT SAMPLE DATA.

U. S. DEPARTMENT OF LABOR — TABLE 33A — WASHINGTON DC SMSA

MANPOWER ADMINISTRATION — EARNINGS OF MALES AND FEMALES 16 YEARS OLD AND OVER IN THE EXPERIENCED CIVILIAN LABOR FORCE BY OCCUPATIONAL GROUP, RACE, AND ETHNIC GROUP

RUN DATE - 74/02/08

LAWRENCE BERKELEY LABORATORY — (COUNT)

OCCUPATIONAL GROUP	TOTAL	WHITE	BLACK	OTHER RACES	SPANISH AMERICAN	MINORITY GROUP**
IN EXPERIENCED LABOR FORCE - MALE	**691,148**	**526,787**	**157,666**	**6,695**	**15,590**	**179,951**
UNDER $1,000 1/	43,381	28,643	14,033	705	1,100	15,838
$ 1,000-$ 2,999	52,016	36,512	14,766	738	1,139	16,643
$ 3,000-$ 4,999	60,811	34,469	25,452	890	1,686	28,028
$ 5,000-$ 9,999	241,512	154,638	84,715	2,159	5,011	91,885
$10,000-$14,999	145,415	129,867	14,371	1,177	3,418	18,966
$15,000 AND OVER	148,013	142,658	4,329	1,026	3,236	8,591
MEDIAN 1/	$8,822	$10,351	$6,224	$7,231	$8,741	$6,358
MEAN 1/	$10,447	$11,741	$6,213	$8,363	$10,074	$6,628
PROFESSIONAL, MANAGERIAL, AND KINDRED WORKERS -	288,341	260,669	24,171	3,501	7,355	35,027
UNDER $4,000 1/	21,115	17,528	3,056	531	513	4,100
$ 4,000-$ 6,999	22,466	17,734	4,306	426	584	5,316
$ 7,000-$ 9,999	43,469	35,284	7,434	751	1,227	9,412
$10,000-$14,999	79,674	72,509	6,315	850	2,300	9,465
$15,000-$24,999	91,660	88,357	2,496	807	2,115	5,418
$25,000 AND OVER	29,957	29,257	564	136	616	1,316
MEDIAN 1/	$13,584	$14,122	$8,817	$10,250	$12,942	$9,552
MEAN 1/	$14,897	$15,448	$9,500	$11,135	$13,945	$10,597
CRAFTSMEN, FOREMEN, AND KINDRED WORKERS -	111,447	86,974	23,903	570	1,972	26,445
UNDER $1,000 1/	4,237	2,707	1,489	41	93	1,623
$ 1,000-$ 3,999	10,257	7,204	2,935	118	200	3,253
$ 4,000-$ 5,999	13,256	8,347	4,839	70	360	5,269
$ 6,000-$ 7,999	22,930	15,682	7,127	121	446	7,694
$ 8,000-$ 9,999	25,575	20,731	4,763	81	344	5,188
$10,000-$14,999	28,822	26,341	2,368	113	405	2,886
$15,000 AND OVER	6,370	5,962	382	26	124	532
MEDIAN 1/	$8,351	$8,851	$6,756	$6,875	$7,486	$6,800
MEAN 1/	$8,371	$8,876	$6,542	$8,006	$7,946	$6,678
OPERATIVES INCLUDING TRANSPORT -	61,446	33,376	27,573	497	924	28,994
UNDER $1,000 1/	5,487	3,532	1,856	99	118	2,073
$ 1,000-$ 3,999	11,123	6,709	4,248	166	183	4,597
$ 4,000-$ 4,999	5,296	2,108	3,156	32	107	3,295
$ 5,000-$ 6,999	14,689	5,812	8,792	85	195	9,072
$ 7,000-$ 9,999	17,028	9,343	7,620	65	238	7,923
$10,000-$14,999	6,717	5,006	1,661	50	64	1,775
$15,000 AND OVER	1,106	866	240	0	19	259
MEDIAN 1/	$6,222	$6,523	$6,041	$3,733	$5,486	$6,002
MEAN 1/	$6,114	$6,369	$5,839	$4,250	$5,505	$5,801

1/ INCLUDES PERSONS WITHOUT EARNINGS.

* DISCLOSURE SUPPRESSION

**SUM OF BLACK, OTHER RACES AND SPANISH AMERICAN

U. S. DEPARTMENT OF LABOR
MANPOWER ADMINISTRATION

ALL RACES -- TABLE 8
PERSONS 16 - 64 YEARS OLD WITH LESS THAN 3 YEARS OF COLLEGE BY VOCATIONAL TRAINING 4/

UNITED STATES TOTAL
RUN DATE 73/04/11.
LAWRENCE BERKELEY LABORATORY

NUMBER, PERCENTAGE DISTRIBUTION, AND RANK

NAME OF AREA	POPULATION AGE 16-64 ALL EDUC. LEVELS COUNT	POPULATION WITH LESS THAN 3 YEARS OF COLLEGE				WITH VOCATIONAL TRAINING				WITHOUT VOCATIONAL TRAINING			
		NUMBER	1/ PCT.	2/ RANK	3/ PCT.	NUMBER	1/ PCT.	2/ RANK	3/ PCT.	NUMBER	1/ PCT.	2/ RANK	3/ PCT.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
UNITED STATES TOTALS	120985396	105843000	87.5			26576447	22.0			79266553	65.5		
ALABAMA	2020163	1836537	90.9	4	1.735	344475	17.1	45	1.296	1492062	73.9	5	1.882
ALASKA	184311	156715	85.0	44	.148	53581	29.1	1	.202	103134	56.0	50	.130
ARIZONA	1032699	887704	86.0	39	.839	245654	23.8	12	.924	642050	62.2	38	.810
ARKANSAS	1102494	1008209	91.4	2	.953	177717	16.1	49	.669	830492	75.3	3	1.048
CALIFORNIA	12235812	10360036	84.7	46	9.788	3175211	26.0	5	11.947	7184825	58.7	48	9.064
COLORADO	1327691	1105314	83.3	50	1.044	313747	23.6	13	1.181	791567	59.6	46	.999
CONNECTICUT	1827465	1544329	84.5	48	1.459	463244	25.3	7	1.743	1081085	59.2	47	1.364
DELAWARE	328246	282911	86.2	38	.267	81678	24.9	9	.307	201233	61.3	42	.254
DISTRICT OF COLUMBIA	484064	394739	81.5	51	.373	133556	27.6	3	.503	261183	54.0	51	.329
FLORIDA	3916094	3445051	88.0	23	3.255	976501	24.9	8	3.674	2468550	63.0	35	3.114
GEORGIA	2750734	2458365	89.4	11	2.323	499222	18.1	39	1.878	1959143	71.2	12	2.472
HAWAII	477719	406463	85.1	43	.384	126101	26.4	4	.474	280362	58.7	49	.354
IDAHO	411714	364264	88.5	19	.344	85747	20.8	26	.323	278517	67.6	18	.351
ILLINOIS	6621057	5801060	87.6	27	5.481	1517382	22.9	16	5.709	4283678	64.7	34	5.404
INDIANA	3057140	2759343	90.3	8	2.607	621191	20.3	29	2.337	2138152	69.9	14	2.697
IOWA	1607266	1424425	88.6	17									
KANSAS	1317566	1136797	86.3	34									
KENTUCKY	1889682	1721854	91.1	3									
LOUISIANA	2091155	1866861	89.3	13									
MAINE	571350	510560	89.4	12									
MARYLAND	2383420	2014173	84.5	47									
MASSACHUSETTS	3372285	2855319	84.7	45									
MICHIGAN	5216744	4641878	89.0	15									
MINNESOTA	2163089	1869784	86.4	31									
MISSISSIPPI	1240093	1123315	90.6	7									
MISSOURI	2730571	2428335	88.9	16									
MONTANA	402007	347304	86.4	33									
NEBRASKA	848067	743897	87.7	24									
NEVADA	304275	266659	87.6	26									
NEW HAMPSHIRE	430697	376409	87.4	28									

1/ PERCENT OF COUNT IN COLUMN NO. 2
2/ RANK OF AREA IN TERMS OF PERCENT OF AREA COUNT
3/ PERCENT OF UNITED STATES TOTAL
4/ BASED ON 5 PERCENT SAMPLE

U. S. DEPARTMENT OF LABOR
MANPOWER ADMINISTRATION

ALL RACES -- TABLE 8
PERSONS 16 - 64 YEARS OLD WITH LESS THAN 3 YEARS OF COLLEGE BY VOCATIONAL TRAINING 4/

UNITED STATES TOTAL
RUN DATE 73/04/11.
LAWRENCE BERKELEY LABORATORY

NUMBER, PERCENTAGE DISTRIBUTION, AND RANK

NAME OF AREA	POPULATION AGE 16-64 ALL EDUC. LEVELS COUNT	POPULATION WITH LESS THAN 3 YEARS OF COLLEGE				WITH VOCATIONAL TRAINING				WITHOUT VOCATIONAL TRAINING			
		NUMBER	1/ PCT.	2/ RANK	3/ PCT.	NUMBER	1/ PCT.	2/ RANK	3/ PCT.	NUMBER	1/ PCT.	2/ RANK	3/ PCT.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
NEW JERSEY	4336340	3738613	86.2	36	3.532	1045087	24.1	11	3.932	2693526	62.1	39	3.398
NEW MEXICO	581587	501288	86.2	37	.474	117380	20.2	32	.442	383908	66.0	30	.484
NEW YORK	11043981	9477284	85.8	41	8.954	2576755	23.3	15	9.696	6900529	62.5	37	8.705
NORTH CAROLINA	3105267	2813720	90.6	6	2.658	582246	18.8	38	2.191	2231474	71.9	10	2.815
NORTH DAKOTA	350686	309497	88.3	22	.292	61517	17.5	41	.231	247980	70.7	13	.313
OHIO	6318968	5630489	89.1	14	5.320	1365169	21.6	24	5.137	4265320	67.5	20	5.381
OKLAHOMA	1517223	1330742	87.7	25	1.257	308469	20.3	28	1.161	1022273	67.4	21	1.290
OREGON	1250281	1078060	86.2	35	1.019	293682	23.5	14	1.105	784378	62.7	36	.990
PENNSYLVANIA	7106115	6354324	89.4	10	6.004	1577296	22.2	19	5.935	4777028	67.2	22	6.027
RHODE ISLAND	575740	508638	88.3	20	.481	129918	22.6	18	.489	378720	65.8	32	.478
SOUTH CAROLINA	1550477	1406195	90.7	5	1.329	267019	17.2	43	1.005	1139176	73.5	6	1.437
SOUTH DAKOTA	371681	328849	88.5	18	.311	60503	16.3	48	.228	268346	72.2	9	.339
TENNESSEE	2357849	2126209	90.2	9	2.009	411652	17.5	42	1.549	1714557	72.7	8	2.163
TEXAS	6631317	5779117	87.1	29	5.460	1413403	21.3	25	5.318	4365714	65.8	31	5.508
UTAH	603542	507089	84.0	49	.479	132772	22.0	20	.500	374317	62.0	40	.472
VERMONT	256436	220296	85.9	40	.208	45438	17.7	40	.171	174858	68.2	17	.221
VIRGINIA	2861909	2476667	86.5	30	2.340	579595	20.3	30	2.181	1897072	66.3	28	2.393
WASHINGTON	2057400	1757334	85.4	42	1.660	528584	25.7	6	1.989	1228750	59.7	44	1.550
WEST VIRGINIA	1036776	955588	92.2	1	.903	161157	15.5	50	.606	794431	76.6	1	1.002
WISCONSIN	2530625	2235404	88.3	21	2.112	553726	21.9	22	2.084	1681678	66.5	27	2.122
WYOMING	195526	168987	86.4	32	.160	38149	19.5	35	.144	130838	66.9	26	.165

1/ PERCENT OF COUNT IN COLUMN NO. 2
2/ RANK OF AREA IN TERMS OF PERCENT OF AREA COUNT (PREVIOUS COLUMN)
3/ PERCENT OF UNITED STATES TOTAL
4/ BASED ON 5 PERCENT SAMPLE

U. S. DEPARTMENT OF LABOR
MANPOWER ADMINISTRATION

ZIP CODE AREA MANPOWER PROFILE 1/

NEW YORK

ZIP CODE 13903 , POST OFFICE SOUTHVIEW COUNTY OF BROOME

RUN DATE - 74/09/18.

TOTAL POPULATION	27,026	MEDIAN INCOME OF FAMILIES	$ 10,405	TOTAL NUMBER OF HOUSING UNITS	8,442
		MEDIAN INCOME OF UNRELATED INDIVIDUALS	$ 2,674		
MEDIAN YEARS OF EDUCATION BY AGE				INDEX OF OVERCROWDING	6.7
25-44	12.6 YRS.	PERCENT MALES (14+ YEARS) NOW MARRIED	67.5		
45-54	12.4 YRS.	PERCENT FEMALES (14+ YEARS) NOW MARRIED	60.7	PERCENT UNITS OWNER OCCUPIED	64.7
55+	10.9 YRS.	AVERAGE NO. OF CHILDREN (UNDER 18) PER FAMILY	1.4	PERCENT UNITS RENTER OCCUPIED	31.0
POPULATION 25+	14,574				
PERCENT- NO SCHOOL	.5	MEDIAN VALUE OF OWNER OCCUPIED HOUSING	$ 19,096	PERCENT ALL UNITS WITH 1 AUTO	57.1
ELEMENTARY ONLY	18.5	MEDIAN VALUE OF RENT	$ 118	ALL UNITS WITH 2 AUTOS	26.1
SOME HIGH SCHOOL	17.7	MEDIAN AGE OF STRUCTURE	34.4 YRS.	ALL UNITS WITH 3+ AUTOS	3.7
HIGH SCHOOL GRAD	39.5				
COLLEGE GRAD	13.3	MOBILITY (PERCENT UNITS MOVED INTO IN LAST 5 YRS.)	45.5		

RACIAL BREAKDOWN	NO.	PCT.
WHITE	26,576	98.3
BLACK	353	1.3
AM INDIAN	34	.1
JAPANESE	13	.0
CHINESE	1	.0
FILIPINO	10	.0
OTHER	39	.1
TOTAL	27,026	100.0
ETHNIC GROUP		
SP AMER 2/	39	.1

MOTHER TONGUE	NO.	PCT.
ENGLISH	22,029	81.0
GERMAN	471	1.7
POLISH	183	.7
YIDDISH	254	.9
ITALIAN	1,296	4.8
SPANISH	58	.2
ALL OTHERS	1,484	5.5
NOT REPORTED	1,419	5.2
TOTAL	27,194	100.0

AGE BREAKDOWN	NO.	PCT.	MALE NO.	MALE PCT.	FEMALE NO.	FEMALE PCT.
UNDER 5	2,500	9.2	1,306	4.8	1,194	4.4
5-9	3,055	11.3	1,533	5.7	1,522	5.6
10-14	2,902	10.7	1,477	5.5	1,425	5.3
15-19	2,350	8.7	1,190	4.4	1,160	4.3
20-24	1,647	6.1	720	2.7	927	3.4
25-34	3,256	12.0	1,529	5.7	1,727	6.4
35-59	7,785	28.8	3,755	13.9	4,030	14.9
60+	3,533	13.1	1,485	5.5	2,048	7.6
TOTAL	27,028	100.0	12,995	48.1	14,033	51.9
MEDIAN AGE (YRS.)	28.3		26.8		29.6	

	NO.	PCT.
TOTAL LABOR FORCE (CIVILIAN)	10,673	100.0
ARMED FORCES	2	
EMPLOYED	10,297	96.5
UNEMPLOYED	376	3.5
OCCUPATIONAL DISTRIBUTION 3/		
ALL OCCUPATIONS	10,297	100.0
PROFESSIONAL AND KINDRED	2,145	20.8
FARMERS AND FARM MANAGERS	97	.9
MANAGERS EXCEPT FARM	930	9.0
CLERICAL AND KINDRED	1,842	17.9
SALES WORKERS	825	8.0
CRAFTSMEN,FOREMEN,AND KINDRED	1,202	11.7
OPERATIVES AND KINDRED	1,635	15.9
SERVICE INCLUDING PRIV HOUSE	1,243	12.1
FARM-LABORS AND FOREMEN	19	.2
LABORS-EXCEPT FARM OR MINE	359	3.5
TOTAL-FAMILIES	6,781	100.0
ON PUBLIC ASSISTANCE	333	4.9
BELOW POVERTY LEVEL	540	8.0
FEMALE HEAD,BELOW POV	150	2.2

INDUSTRIAL DISTRIBUTION 3/	NO.	PCT.
ALL INDUSTRIES	10,297	100.0
CONSTRUCTION	615	6.0
MANUFACTURING	2,995	29.1
DURABLES	2,168	21.1
NON DURABLES	827	8.0
PUBLIC UTILITIES	693	6.7
TRANSPORTATION	313	3.0
OTHER	380	3.7
WHOLESALE - RETAIL TRADE	2,074	20.1
FIN,INS,BUS,AND REPAIR - OTHER PROFES+RELATED SER	615	6.0
	1,493	14.5
EDUCATIONAL SERVICES	758	7.4
PUBLIC ADMINISTRATION	511	5.0
OTHER INDUSTRIES	543	5.3

FAMILY COUNT INCOME	NO.	PCT.
UNDER $3,000	515	7.6
$3,000-$3,999	269	4.0
$4,000-$4,999	333	4.9
$5,000-$5,999	298	4.4
$6,000-$6,999	414	6.1
$7,000-$9,999	1,373	20.2
$10,000-$14,999	2,032	30.0
$15,000-$24,999	1,142	16.8
$25,000-$49,999	354	5.2
$50,000 AND OVER	54	.8
TOTAL	6,784	100.0

HOUSEHOLD EQUIP	NO.	PCT.
WASHING MACH	6,547	81.0
CLOTHES DRYER	4,281	53.0
DISHWASHER	1,866	23.1
HOME FREEZER	1,893	23.4
TELEVISION	7,702	95.3
UHF-EQUIPPED	6,239	77.2
BATTERY-RADIO	5,842	72.3
TELEPHONE	7,751	95.9

1/ DATA IN TABLE IS SUBJECT TO SAMPLING VARIABILITY -- DATA ARE FROM 5,15,20 PERCENT SAMPLES
2/ SPANISH AMERICAN ETHNIC GROUP MAY INCLUDE WHITE, BLACK, AND OTHER RACES
3/ POPULATION 14 YEARS OLD AND OVER

0* = DISCLOSURE SUPPRESSION

JOURNEY TO WORK, BY RESIDENTS OF
THE CITY OF LOS ANGELES
IN THE COUNTY OF LOS ANGELES
CALIFORNIA

DESTINATIONS	TOTAL		WHITE		BLACK		OTHER RACES		SPANISH AMERICAN	
	COUNT	PERC	COUNT	PERC	COUNT	PERC	COUNT	PERC	COUNT	PERC
EMPLOYED RESIDENTS -- TOTAL	1,119,414	100.0	891,534	100.0	168,113	100.0	59,767	100.0	180,498	100.0
COUNTY OF LOS ANGELES	1,014,588	90.6	814,849	91.4	144,846	86.2	54,893	91.8	167,769	92.9
LOS ANGELES CITY CBD	61,352	5.5	45,214	5.1	10,879	6.5	5,259	8.8	11,975	6.6
REMAINDER OF LOS ANGELES CITY	671,068	59.9	541,093	60.7	93,958	55.9	36,017	60.3	107,868	59.8
LONG BEACH CITY, CBD	418	.0	342	.0	68	.0	8	.0	100	.1
REMAINDER OF LONG BEACH CITY	19,118	1.7	15,175	1.7	2,795	1.7	1,148	1.9	2,537	1.4
REMAINDER OF LOS ANGELES CO.	262,632	23.5	213,025	23.9	37,146	22.1	12,461	20.8	45,289	25.1
COUNTY OF ORANGE	5,802	.5	4,264	.5	1,144	.7	394	.7	952	.5
ANAHEIM CITY	1,341	.1	845	.1	384	.2	112	.2	126	.1
SANTA ANA CITY	823	.1	668	.1	123	.1	32	.1	172	.1
GARDEN GROVE CITY	150	.0	130	.0	20	.0	0	0.	7	.0
REMAINDER OF ORANGE CO.	3,488	.3	2,621	.3	617	.4	250	.4	647	.4
COUNTY OF SAN BERNARDINO	552	.0	431	.0	100	.1	21	.0	66	.0
SAN BERNARDINO CITY	100	.0	91	.0	9	.0	0	0.	33	.0
ONTARIO CITY	64	.0	51	.0	13	.0	0	0.	0	0.
REMAINDER OF SAN BERNARDINO CO.	388	.0	289	.0	78	.0	21	.0	33	.0
COUNTY OF RIVERSIDE	380	.0	310	.0	40	.0	30	.1	78	.0
RIVERSIDE CITY	116	.0	102	.0	14	.0	0	0.	26	.0
REMAINDER OF RIVERSIDE CO.	264	.0	208	.0	26	.0	30	.1	52	.0
COUNTY OF VENTURA	3,149	.3	2,933	.3	112	.1	104	.2	413	.2
OXNARD CITY	333	.0	285	.0	29	.0	19	.0	29	.0
VENTURA CITY	125	.0	109	.0	0	0.	16	.0	29	.0
REMAINDER OF VENTURA CO.	2,691	.2	2,539	.3	83	.0	69	.1	355	.2
COUNTY OF KERN	235	.0	175	.0	16	.0	44	.1	9	.0
BAKERSFIELD CITY	48	.0	41	.0	0	0.	7	.0	0	0.
REMAINDER OF KERN CO.	187	.0	134	.0	16	.0	37	.1	9	.0
SAN DIEGO CO.	606	.1	546	.1	37	.0	23	.0	85	.0
NOT REPORTED	88,563	7.9	63,368	7.1	21,182	12.6	4,013	6.7	10,582	5.9

JOURNEY TO WORK TABLE
CONNECTICUT
FROM PLACES IN (MIDDLESEX COUNTY) NONMETROPOLITAN

(1) CHESTER TOWN
(2) CLINTON TOWN
(3) DEEP RIVER TOWN
(4) DURHAM TOWN
(5) EAST HADDAM TOWN
(6) EAST HAMPTON TOWN
(7) ESSEX TOWN
(8) HADDAM TOWN
(9) KILLINGWORTH TOWN
(10) MIDDLEFIELD TOWN

DESTINATIONS	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
HARTFORD CITY, HARTFORD CO.	17	38	29	14	124	233	39	101	36	81
HARTFORD SMSA, HARTFORD CO. - INNER RING	24	24	24	92	115	268	7	104	29	46
CROMWELL TOWN	0	0	0	9	0	20	0	16	0	11
GLASTONBURY AND ROCKY HILL TOWNS, HARTFORD CO.	0	0	7	29	25	45	8	23	0	7
REMAINDER OF HARTFORD SMSA, HARTFORD CO.	0	8	0	23	17	73	0	0	0	14
NEW BRITAIN CITY, HARTFORD CO.	20	18	0	0	23	42	8	14	5	19
BERLIN TOWN, HARTFORD CO.	0	0	0	5	8	11	10	29	0	27
PLAINVILLE AND SOUTHINGTON TOWNS, HARTFORD CO.	0	0	0	0	0	12	0	0	9	9
REMAINDER OF HARTFORD CO.	0	0	0	18	11	36	0	6	0	57
MERIDEN CITY, NEW HAVEN CO.	0	18	0	59	0	43	6	6	5	160
WILLINGFORD AND MADISON TOWNS, NEW HAVEN CO.	8	219	28	134	0	14	22	6	13	42
NEW HAVEN CITY, NEW HAVEN CO.	0	572	29	62	0	14	39	11	157	35
REMAINDER OF NEW HAVEN SMSA	15	548	26	179	0	32	8	58	150	36
REMAINDER OF NEW HAVEN CO. (NONMETRO)	0	12	0	17	0	0	0	12	8	0
NEW LONDON AND NORWICH CITIES AND GROTON TOWN, NEW LONDON CO.	13	57	35	0	56	17	26	0	5	6
REMAINDER OF NEW LONDON-GROTON-NORWICH SMSA, NEW LONDON CO.	27	14	35	0	0	10	47	14	0	0
NEW LONDON CO. (NONMETRO)	11	12	5	12	58	37	6	22	0	0
MIDDLETOWN CITY	76	54	105	414	336	655	80	775	131	654
EMAINDER OF MIDDLESEX CO. (NONMETRO)	967	1771	1218	611	1051	1274	1352	710	254	458
OLLAND CO. (NONMETRO)	0	0	0	0	4	7	0	7	0	6

U. S. DEPARTMENT OF LABOR
MANPOWER ADMINISTRATION

SPANISH AMERICAN
EMPLOYED POPULATION 16 YEARS OLD AND OVER
BY INDUSTRY

RUN DATE - 73/11/14.

NUMBER, PERCENTAGE DISTRIBUTION, AND RANK

NAME OF AREA	TOTAL EMPLOYED ALL INDUSTRIES COUNT	AGRICULTURE, FORESTRY FISHING NUMBER	1/ PCT.	2/ RANK	3/ PCT.	MINING NUMBER	1/ PCT.	2/ RANK	3/ PCT.	CONSTRUCTION NUMBER	1/ PCT.	2/ RANK	3/ PCT.
NATION													
UNITED STATES TOTALS	2,886,868	164,567	5.70		100.00	29,090	1.01		100.00	173,883	6.02		100.00
STATES													
ALABAMA	3,781	60	1.59	40	.04	22	.58	19	.08	151	3.99	31	.09
ALASKA	1,551	0	.00	51	.00	28	1.81	13	.10	149	9.61	3	.09
ARIZONA	98,641	9,100	9.23	7	5.53	6,731	6.82	3	23.14	8,602	8.72	6	4.95
ARKANSAS	2,746	301	10.96	4	.18	0	.00	45	.00	160	5.83	19	.09
CALIFORNIA	1,007,153	75,302	7.48	10	45.76	3,084	.31	28	10.60	55,579	5.52	20	31.96
COLORADO	83,898	3,607	4.30	16	2.19	1,711	2.04	11	5.88	5,808	6.92	12	3.34
CONNECTICUT	24,532	395	1.61	39	.24	27	.11	35	.09	857	3.49	39	.49
DELAWARE	1,940	22	1.13	44	.01	0	.00	46	.00	121	6.24	16	.07
DISTRICT OF COLUMBIA	7,485	47	.63	49	.03	0	.00	47	.00	258	3.45	41	.15
FLORIDA	185,527	6,342	3.42	22	3.85	277	.15	33	.95	10,840	5.84	18	6.23
GEORGIA	9,204	151	1.64	38	.09	21	.23	30	.07	361	3.92	32	.21
HAWAII	6,515	255	3.91	20	.15	31	.48	22	.11	682	10.47	1	.39
IDAHO	5,494	1,399	25.46	1	.85	104	1.89	12	.36	157	2.86	47	.09
ILLINOIS	126,603	1,241	.98	46	.75	180	.14	34	.62	3,651	2.88	46	2.10
INDIANA	21,185	462	2.18	30	.28	36	.17	32	.12	699	3.30	43	.40
IOWA	5,874	244	4.15	18	.15	5	.09	38	.02	240	4.09	28	.14
KANSAS	14,647	467	3.19	23	.28	110	.75	17	.38	896	6.12	17	.52
KENTUCKY	3,055	125	4.09	19	.08	29	.95	16	.10	110	3.60	37	.06
LOUISIANA	22,133	455	2.06	33	.28	730	3.30	8	2.51	1,453	6.56	13	.84
MAINE	979	24	2.45	28	.01	0	.00	48	.00	52	5.31	22	.03
MARYLAND	18,831	335	1.78	37	.20	6	.03	44	.02	692	3.67	35	.40
MASSACHUSETTS	21,000	427	2.03	34	.26	14	.07	39	.05	716	3.41	42	.41
MICHIGAN	37,295	974	2.61	26	.59	74	.20	31	.25	1,303	3.49	38	.75
MINNESOTA	7,637	141	1.85	36	.09	44	.58	20	.15	305	3.99	30	.18
MISSISSIPPI	2,464	146	5.93	11	.09	35	1.42	14	.12	211	8.56	7	.12
MISSOURI	13,963	183	1.31	42	.11	43	.31	27	.15	437	3.13	44	.25
MONTANA	2,252	206	9.15	8	.13	85	3.77	7	.29	119	5.28	23	.07
NEBRASKA	6,397	314											
NEVADA	9,701	406											
NEW HAMPSHIRE	985	27											
NEW JERSEY	40,439	855											
NEW MEXICO	111,697	5,690											
NEW YORK	233,090	1,076											
NORTH CAROLINA	5,505	60											
NORTH DAKOTA	357	34											
OHIO	30,427	746											
OKLAHOMA	10,581	567											

1/ PERCENT OF COUNT IN COLUMN 2
2/ RANK OF AREA IN TERMS OF PERCENT OF AREA(PRE
3/ PERCENT OF TOTAL AREA(LINE 1)

U. S. DEPARTMENT OF LABOR
MANPOWER ADMINISTRATION

SPANISH AMERICAN
EMPLOYED POPULATION 16 YEARS OLD AND OVER
BY INDUSTRY

RUN DATE - 73/11/14.

NUMBER, PERCENTAGE DISTRIBUTION, AND RANK

NAME OF AREA	TOTAL EMPLOYED ALL INDUSTRIES COUNT	AGRICULTURE, FORESTRY FISHING NUMBER	1/ PCT.	2/ RANK	3/ PCT.	MINING NUMBER	1/ PCT.	2/ RANK	3/ PCT.	CONSTRUCTION NUMBER	1/ PCT.	2/ RANK	3/ PCT.
NATION													
UNITED STATES TOTALS	2,886,868	164,567	5.70		100.00	29,090	1.01		100.00	173,883	6.02		100.00
STATES													
OREGON	10,591	993	9.38	6	.60	53	.50	21	.18	583	5.50	21	.34
PENNSYLVANIA	11,412	438	3.84	21	.27	42	.37	24	.14	501	4.39	27	.29
RHODE ISLAND	2,144	14	.65	48	.01	8	.37	23	.03	23	1.07	51	.01
SOUTH CAROLINA	2,421	48	1.98	35	.03	6	.25	29	.02	183	7.56	9	.11
SOUTH DAKOTA	765	103	13.46	3	.06	33	4.31	5	.11	38	4.97	25	.02
TENNESSEE	4,868	42	.90	47	.03	32	.69	18	.11	175	3.75	34	.10
TEXAS	600,425	46,222	7.70	9	28.09	8,463	1.41	15	29.09	54,529	9.08	4	31.36
UTAH	12,476	361	2.89	24	.22	887	7.11	2	3.05	597	4.79	26	.34
VERMONT	961	20	2.08	32	.01	0	.00	51	.00	74	7.70	8	.04
VIRGINIA	14,841	204	1.37	41	.12	14	.09	37	.05	568	3.83	33	.33
WASHINGTON	20,340	3,328	16.36	2	2.02	13	.06	40	.04	824	4.05	29	.47
WEST VIRGINIA	2,042	25	1.22	43	.02	137	6.71	4	.47	104	5.09	24	
WISCONSIN	13,043	294	2.25	29	.18	5	.04	43	.02	396	3.04	45	
WYOMING	5,175	289	5.58	12	.18	386	7.46	1	1.33	376	7.27	10	

1/ PERCENT OF COUNT IN COLUMN 2
2/ RANK OF AREA IN TERMS OF PERCENT OF AREA(PREVIOUS COLUMN)
3/ PERCENT OF TOTAL AREA(LINE 1)

PAGE NO.

REPORT 7

U. S. DEPARTMENT OF LABOR
MANPOWER ADMINISTRATION

BLACK RACE
EMPLOYED POPULATION 16 YEARS AND OVER
BY OCCUPATION

RUN DATE - 73/11/14.

NUMBER, PERCENTAGE DISTRIBUTION, AND RANK

NAME OF AREA	TOTAL EMPLOYED ALL OCCUPATIONS COUNT	METAL CRAFTSMEN, EXCEPT MECHANICS AND MACHINISTS				CARPENTERS				CONSTRUCTION CRAFTSMEN, EXCEPT CARPENTERS			
		NUMBER	1/ PCT.	2/ RANK	3/ PCT.	NUMBER	1/ PCT.	2/ RANK	3/ PCT.	NUMBER	1/ PCT.	2/ RANK	3/ PCT.
NATION													
UNITED STATES TOTALS	7,361,143	35,801	.49		100.00	44,529	.60		100.00	150,372	2.04		100.00
STATES													
ALABAMA	254,435	1,550	.61	15	4.33	2,364	.93	12	5.31	6,435	2.53	15	4.28
ALASKA	1,959	0	.00	42	.00	25	1.28	5	.06	55	2.81	8	.04
ARIZONA	15,045	32	.21	33	.09	91	.60	21	.20	264	1.75	24	.18
ARKANSAS	86,609	146	.17	36	.41	750	.87	14	1.68	1,504	1.74	25	1.00
CALIFORNIA	450,126	2,328	.52	18	6.50	2,549	.57	22	5.72	8,524	1.89	22	5.67
COLORADO	21,121	76	.36	23	.21	76	.36	35	.17	262	1.24	42	.17
CONNECTICUT	66,775	830	1.24	4	2.32	260	.39	30	.58	918	1.37	37	.61
DELAWARE	26,577	105	.40	21	.29	134	.50	25	.30	511	1.92	21	.34
DISTRICT OF COLUMBIA	227,349	184	.08	41	.51	872	.38	31	1.96	4,021	1.77	23	2.67
FLORIDA	362,201	391	.11	40	1.09	2,690	.74	17	6.04	11,502	3.18	4	7.65
GEORGIA	392,444	637	.16	38	1.78	3,305	.84	15	7.42	10,557	2.69	9	7.02
HAWAII	1,173	0	.00	43	.00	13	1.11	9	.03	31	2.64	12	.02
IDAHO	597	0	.00	44	.00	17	2.85	2	.04	17	2.85	7	.01
ILLINOIS	464,402	3,731	.80	11	10.42	1,120	.24	42	2.52	6,172	1.33	38	4.10
INDIANA	121,410	1,735	1.43	3	4.85	290	.24	43	.65	2,361	1.94	20	1.57
IOWA	10,845	83	.77	12	.23	40	.37	33	.09	151	1.39	36	.10
KANSAS	31,300	294	.94	10	.82	114	.36	34	.26	478	1.53	34	.32
KENTUCKY	72,850	234	.32	28	.65	237	.33	36	.53	1,478	2.03	19	.98
LOUISIANA	286,597	703	.25	32	1.96	3,460	1.21	8	7.77	7,395	2.58	13	4.92
MAINE	543	6	1.10	6	.02	6	1.10	10	.01	7	1.29	39	.00
MARYLAND	251,459	812	.32	27	2.27	1,387	.55	23	3.11	5,462	2.17	17	3.63
MASSACHUSETTS	56,686	362											
MICHIGAN	325,501	4,924											
MINNESOTA	12,196	42											
MISSISSIPPI	204,233	426											
MISSOURI	157,761	897											
MONTANA	443	0											
NEBRASKA	12,554	57											
NEVADA	9,679	0											
NEW HAMPSHIRE	669	0											
NEW JERSEY	270,374	1,204											
NEW MEXICO	4,925	6											
NEW YORK	758,488	2,519											
NORTH CAROLINA	364,673	686											
NORTH DAKOTA	158	0											
OHIO	336,546	3,496											
OKLAHOMA	47,867	80											

1/ PERCENT OF COUNT IN COLUMN 2
2/ RANK OF AREA IN TERMS OF PERCENT OF AREA(PREVI
3/ PERCENT OF TOTAL AREA(LINE 1)
4/ INCLUDES NOT REPORTED CASES ALLOCATED TO THIS
5/ FARMERS, FARM MANAGERS, FARM LABORERS, AND FAI
6/ PHYSICIANS, DENTISTS, PRACTITIONERS, OTHER HE/
7/ NON-FARM LABOR, FARM LABOR, FARM FOREMEN, CLE/
AND PRIVATE HOUSEHOLD WORKERS

U. S. DEPARTMENT OF LABOR
MANPOWER ADMINISTRATION

BLACK RACE
EMPLOYED POPULATION 16 YEARS AND OVER
BY OCCUPATION

RUN DATE - 73/11/14.

NUMBER, PERCENTAGE DISTRIBUTION, AND RANK

NAME OF AREA	TOTAL EMPLOYED ALL OCCUPATIONS COUNT	METAL CRAFTSMEN, EXCEPT MECHANICS AND MACHINISTS				CARPENTERS				CONSTRUCTION CRAFTSMEN, EXCEPT CARPENTERS			
		NUMBER	1/ PCT.	2/ RANK	3/ PCT.	NUMBER	1/ PCT.	2/ RANK	3/ PCT.	NUMBER	1/ PCT.	2/ RANK	3/ PCT.
NATION													
UNITED STATES TOTALS	7,361,143	35,801	.49		100.00	44,529	.60		100.00	150,372	2.04		100.00
STATES													
OREGON	8,456	91	1.08	7	.25	21	.25	40	.05	104	1.23	43	.07
PENNSYLVANIA	348,969	2,025	.58	16	5.66	1,547	.44	26	3.47	5,599	1.60	30	3.72
RHODE ISLAND	7,659	79	1.03	9	.22	6	.08	47	.01	124	1.62	29	.08
SOUTH CAROLINA	243,564	765	.31	29	2.14	3,281	1.35	4	7.37	8,676	3.52	3	5.70
SOUTH DAKOTA	385	0	.00	49	.00	15	3.90	1	.03	23	5.97	2	.02
TENNESSEE	197,736	517	.26	31	1.44	1,055	.53	24	2.37	4,095	2.07	18	2.72
TEXAS	475,660	1,569	.33	26	4.38	3,095	.65	19	6.95	10,766	2.26	16	7.16
UTAH	1,612	0	.00	50	.00	4	.25	41	.01	15	.93	45	.01
VERMONT	261	0	.00	51	.00	0	.00	50	.00	0	.00	50	.00
VIRGINIA	288,265	1,135	.39	22	3.17	2,772	.96	11	6.23	8,557	2.97	5	5.69
WASHINGTON	21,660	152	.70	13	.42	137	.63	20	.31	581	2.68	10	.39
WEST VIRGINIA	18,693	51	.31	30	.14	205	1.23	7	.46	274	1.64	28	.18
WISCONSIN	41,151	834	2.03	1	2.33	50	.12	46	.11	378	.92	47	.25
WYOMING	602	7	1.16	5	.02	0	.00	51	.00	0	.00	51	.00

1/ PERCENT OF COUNT IN COLUMN 2
2/ RANK OF AREA IN TERMS OF PERCENT OF AREA(PREVIOUS COLUMN)
3/ PERCENT OF TOTAL AREA(LINE 1)
4/ INCLUDES NOT REPORTED CASES ALLOCATED TO THIS MAJOR GROUP
5/ FARMERS, FARM MANAGERS, FARM LABORERS, AND FARM FOREMEN
6/ PHYSICIANS, DENTISTS, PRACTITIONERS, OTHER HEALTH WORKER, AND HEALTH SERVICE WORKERS
7/ NON-FARM LABOR, FARM LABOR, FARM FOREMEN, CLEANING, FOOD SERVICE WORKERS, AND PRIVATE HOUSEHOLD WORKERS

PAGE NO.

U. S. DEPARTMENT OF LABOR
MANPOWER ADMINISTRATION

OTHER RACES
EMPLOYED FEMALES 16 YEARS OLD AND OVER
BY OCCUPATION

RUN DATE - 73/11/14.

NUMBER, PERCENTAGE DISTRIBUTION, AND RANK

NAME OF AREA	TOTAL EMPLOYED ALL OCCUPATIONS COUNT	PROFESSIONAL, TECHNICAL AND KINDRED, TOTAL NUMBER	1/ PCT.	2/ RANK	3/ PCT.	NURSES NUMBER	1/ PCT.	2/ RANK	3/ PCT.	MEDICAL AND OTHER HEALTH WORKERS, EXCEPT NURSES NUMBER	1/ PCT.	2/ RANK	3/ PCT.
NATION													
UNITED STATES TOTALS	368,041	66,154	17.97		100.00	14,844	4.03		100.00	9,280	2.52		100.00
STATES													
ALABAMA	534	98	18.35	27	.15	23	4.31	20	.16	19	3.56	20	.20
ALASKA	3,765	333	8.84	49	.50	58	1.54	44	.39	9	.24	48	.10
ARIZONA	7,389	776	10.50	46	1.17	195	2.64	35	1.31	33	.45	46	.36
ARKANSAS	483	70	14.49	36	.11	6	1.24	46	.04	6	1.24	34	.06
CALIFORNIA	113,044	17,901	15.84	29	27.06	4,096	3.62	26	27.59	2,229	1.97	30	24.02
COLORADO	3,185	450	14.13	38	.68	70	2.20	38	.47	27	.85	39	.29
CONNECTICUT	1,884	633	33.60	4	.96	63	3.34	27	.42	221	11.73	1	2.38
DELAWARE	347	107	30.84	7	.16	19	5.48	9	.13	33	9.51	4	.36
DISTRICT OF COLUMBIA	1,878	544	28.97	12	.82	91	4.85	14	.61	52	2.77	22	.56
FLORIDA	2,972	537	18.07	28	.81	109	3.67	25	.73	108	3.63	19	1.16
GEORGIA	1,052	195	18.54	24	.29	71	6.75	7	.48	28	2.66	25	.30
HAWAII	80,700	11,801	14.62	34	17.84	1,557	1.93	41	10.49	554	.69	41	5.97
IDAHO	965	117	12.12	43	.18	31	3.21	28	.21	9	.93	38	.10
ILLINOIS	13,860	4,732	34.14	2	7.15	2,143	15.46	1	14.44	839	6.05	13	9.04
INDIANA	1,808	537	29.70	9	.81	87	4.81	15	.59	97	5.37	15	1.05
IOWA	870	252	28.97	13	.38	37	4.25	21	.25	57	6.55	10	.61
KANSAS	1,890	277	14.66	33	.42	39	2.06	40	.26	46	2.43	27	.50
KENTUCKY	688	141	20.49	21	.21	30	4.36	19	.20	44	6.40	12	.47
LOUISIANA	792	120	15.15	30	.18	42	5.30	11	.28	11	1.39	33	.12
MAINE	264	14	5.30	51	.02	3	1.14	48	.02	7	2.65	26	.08
MARYLAND	3,681	1,210	33.05	5	1.83	220	6.01	8	1.48	235	6.42	11	2.53
MASSACHUSETTS	5,060	1,017	20.10	22	1.54	141	2.79	33	.95	234	4.62	18	2.52
MICHIGAN	5,890	1,719	29.19	11	2.60	455	7.72	6	3.07	335	5.69	14	3.61
MINNESOTA	3,566												
MISSISSIPPI	624												
MISSOURI	2,314												
MONTANA	1,979												
NEBRASKA	1,149												
NEVADA	1,477												
NEW HAMPSHIRE	276												
NEW JERSEY	6,340												
NEW MEXICO	5,889												
NEW YORK	29,730												
NORTH CAROLINA	5,807												
NORTH DAKOTA	1,094												
OHIO	4,565												
OKLAHOMA	10,490												

1/ PERCENT OF COUNT IN COLUMN 2
2/ RANK OF AREA IN TERMS OF PERCENT OF A
3/ PERCENT OF TOTAL AREA(LINE 1)
4/ INCLUDES NOT REPORTED CASES ALLOCATED
5/ FARMERS, FARM MANAGERS, FARM LABORERS
6/ NURSES, OTHER HEALTH WORKERS, AND HEA
7/ NON-FARM LABOR, FARM LABOR, FARM FORE
AND PRIVATE HOUSEHOLD WORKERS

U. S. DEPARTMENT OF LABOR
MANPOWER ADMINISTRATION

OTHER RACES
EMPLOYED FEMALES 16 YEARS OLD AND OVER
BY OCCUPATION

RUN DATE - 73/11/14.

NUMBER, PERCENTAGE DISTRIBUTION, AND RANK

NAME OF AREA	TOTAL EMPLOYED ALL OCCUPATIONS COUNT	PROFESSIONAL, TECHNICAL AND KINDRED, TOTAL NUMBER	1/ PCT.	2/ RANK	3/ PCT.	NURSES NUMBER	1/ PCT.	2/ RANK	3/ PCT.	MEDICAL AND OTHER HEALTH WORKERS, EXCEPT NURSES NUMBER	1/ PCT.	2/ RANK	3/ PCT.
NATION													
UNITED STATES TOTALS	368,041	66,154	17.97		100.00	14,844	4.03		100.00	9,280	2.52		100.00
STATES													
OREGON	3,778	548	14.51	35	.83	85	2.25	37	.57	82	2.17	28	.88
PENNSYLVANIA	5,350	1,697	31.72	6	2.57	675	12.62	2	4.55	369	6.90	6	3.98
RHODE ISLAND	687	147	21.40	19	.22	21	3.06	30	.14	47	6.84	9	.51
SOUTH CAROLINA	626	93	14.86	31	.14	9	1.44	45	.06	4	.64	42	.04
SOUTH DAKOTA	2,583	332	12.85	41	.50	56	2.17	39	.38	8	.31	47	.09
TENNESSEE	911	259	28.43	15	.39	46	5.05	12	.31	80	8.78	5	.86
TEXAS	6,728	1,243	18.48	25	1.88	331	4.92	13	2.23	102	1.52	32	1.10
UTAH	2,036	295	14.49	37	.45	55	2.70	34	.37	16	.79	40	.17
VERMONT	89	35	39.33	1	.05	0	.00	51	.00	0	.00	51	.00
VIRGINIA	2,929	773	26.39	16	1.17	249	8.50	4	1.68	155	5.29	16	1.67
WASHINGTON	10,090	1,421	14.08	39	2.15	322	3.19	29	2.17	209	2.07	29	2.25
WEST VIRGINIA	237	70	29.54	10	.11	11	4.64	18	.07	25	10.55	2	.27
WISCONSIN	3,254	600	18.44	26	.91	38	1.17	47	.26	90	2.77	23	.97
WYOMING	464	47	10.13	47	.07	25	5.39	10	.17	5	1.08	35	.05

1/ PERCENT OF COUNT IN COLUMN 2
2/ RANK OF AREA IN TERMS OF PERCENT OF AREA(PREVIOUS COLUMN)
3/ PERCENT OF TOTAL AREA(LINE 1)
4/ INCLUDES NOT REPORTED CASES ALLOCATED TO THIS MAJOR GROUP
5/ FARMERS, FARM MANAGERS, FARM LABORERS, AND FARM FOREMEN
6/ NURSES, OTHER HEALTH WORKERS, AND HEALTH SERVICE WORKERS
7/ NON-FARM LABOR, FARM LABOR, FARM FOREMEN, CLEANING, FOOD SERVICE WORKERS, AND PRIVATE HOUSEHOLD WORKERS

PAGE NO.

INDUSTRY MANPOWER CHARACTERISTICS

TRANSPORTATION, COMMUNICATIONS, AND OTHER PUBLIC UTILITIES -- TOTAL

EMPLOYMENT STATUS OF PERSONS 16 YEARS + BY SEX

ITEM	BOTH SEXES	MALE	FEMALE
EXPERIENCED LABOR FORCE	66,001	53,130	12,871
EMPLOYED	64,642	52,097	12,545
UNEMPLOYED	1,359	1,033	326
UNEMPLOYMENT RATE	2.1	1.9	2.5

EMPLOYED PERSONS 16 YEARS + BY EARNINGS IN 1969

RACE AND ETHNIC GROUP	TOTAL	BLACK	SP. AM. 1/
MALE			
TOTAL WITH EARNINGS	52,716	2,030	1,532
MEDIAN EARNINGS ($)	7,857	5,742	6,586
PERCENT WITH EARNINGS	100.0	100.0	100.0
BELOW $2,000	6.3	12.5	3.5
BELOW $4,000	13.2	29.1	12.5
BELOW $5,000	18.5	40.5	18.3
BELOW $6,000	26.3	53.3	35.0
ABOVE $10,000	25.6	4.7	6.8
ABOVE $15,000	5.4	1.1	.4
TOTAL WORKED 50-52 WKS	43,712	1,356	1,216
PERCENT OF EARNERS	82.9	66.8	79.4
MEDIAN EARNINGS ($)	8,281	6,169	6,825
PERCENT WITH EARNINGS	100.0	100.0	100.0
BELOW $2,000	2.6	5.5	1.8
BELOW $4,000	6.8	17.8	7.0
BELOW $5,000	11.5	31.5	11.3
BELOW $6,000	19.1	46.5	28.6
ABOVE $10,000	28.6	4.7	8.6
ABOVE $15,000	6.0	.5	.5
FEMALE			
TOTAL WITH EARNINGS	12,352	395	209
MEDIAN EARNINGS ($)	4,478	3,106	4,385
PERCENT WITH EARNINGS	100.0	100.0	100.0
BELOW $1,000	9.1	17.7	0.0
BELOW $2,000	21.0	35.4	16.7
BELOW $3,000	30.1	47.8	30.1
BELOW $4,000	42.4	68.1	41.1
BELOW $5,000	58.3	82.5	64.1
ABOVE $10,000	1.9	0.0	0.0
TOTAL WORKED 50-52 WKS	7,987	170	146
PERCENT OF EARNERS	64.7	43.0	69.9
MEDIAN EARNINGS ($)	5,325	4,255	4,952
PERCENT WITH EARNINGS	100.0	100.0	100.0
BELOW $1,000	1.9	0.0	0.0
BELOW $2,000	5.9	4.7	10.3
BELOW $3,000	10.3	14.1	18.5
BELOW $4,000	22.3	42.9	22.6
BELOW $5,000	42.4	70.6	51.4
ABOVE $10,000	2.4	0.0	0.0

EMPLOYED PERSONS 16 YEARS + BY RACE/ETHNIC GROUP AND SEX

ITEM	BOTH SEXES NO.	BOTH SEXES PCT.	MALE NO.	MALE PCT.	FEMALE NO.	FEMALE PCT.
TOTAL EMPLOYED	64,642	100.0	52,097	100.0	12,545	100.0
WHITE	62,006	95.9	49,933	95.8	12,073	96.2
BLACK	2,391	3.7	1,974	3.8	417	3.3
OTHER RACES 1/	245	.4	190	.4	55	.4
SPANISH AMERICAN	1,723	2.7	1,527	2.9	196	1.6

EXPERIENCED LABOR FORCE 16 YEARS + BY WEEKS WORKED IN 1969

	BOTH SEXES		MALE		FEMALE	
TOTAL WHO WORKED	65,288	100.0	52,804	100.0	12,484	100.0
50-52 WEEKS	51,871	79.4	43,780	82.9	8,091	64.8
27-49 WEEKS	9,929	15.2	7,068	13.4	2,861	22.9
1-26 WEEKS	3,488	5.3	1,956	3.7	1,532	12.3
DID NOT WORK IN 1969	713		326		387	

EMPLOYED 14 YEARS + BY AGE AND SEX

TOTAL 14 YEARS +	64,784	100.0	52,206	100.0	12,578	100.0
14-15 YEARS	142	.2	109	.2	33	.3
16-17 YEARS	468	.7	361	.7	107	.9
18-19 YEARS	1,894	2.9	1,117	2.1	777	6.2
20-24 YEARS	7,533	11.6	4,983	9.5	2,550	20.3
25-34 YEARS	13,615	21.0	10,995	21.1	2,620	20.8
35-44 YEARS	14,464	22.3	11,680	22.4	2,784	22.1
45-54 YEARS	14,584	22.5	12,341	23.6	2,243	17.8
55-64 YEARS	10,182	15.7	8,998	17.2	1,184	9.4
65 YEARS AND OVER	1,902	2.9	1,622	3.1	280	2.2
MEDIAN AGE	41.0		42.3		35.7	

EMPLOYED 16 YEARS + BY CLASS OF WORKER, RACE/ETHNIC GRP, AND SEX

	TOTAL		BLACK		SP. AM.	
MALE - TOTAL	52,097	100.0	1,974	100.0	1,527	100.0
PRIV WAGE + SAL	45,141	86.6	1,530	77.5	1,416	92.7
PRIVATE CO.	44,784	86.0	1,522	77.1	1,416	92.7
OWN BUS, INC	357	.7	8	.4	0	0.0
GOVERNMENT	4,903	9.4	334	16.9	91	6.0
FEDERAL	409	.8	38	1.9	18	1.2
STATE	334	.6	7	.4	6	.4
LOCAL	4,160	8.0	289	14.6	67	4.4
OWN BUS, NOT INC	1,998	3.8	105	5.3	20	1.3
UNPAID FAMILY	55	.1	5	.3	0	0.0
FEMALE - TOTAL	12,545	100.0	417	100.0	196	100.0
PRIV WAGE + SAL.	11,206	89.3	357	85.6	171	87.2
PRIVATE CO.	11,136	88.8	357	85.6	171	87.2
OWN BUS, INC	70	.6	0	0.0	0	0.0
GOVERNMENT	1,048	8.4	46	11.0	25	12.8
FEDERAL	109	.9	30	7.2	6	3
STATE	131	1.0	0	0.0	10	5
LOCAL	808	6.4	16	3.8	9	4
OWN BUS, NOT INC	192	1.5	14	3.4	0	0
UNPAID FAMILY	99	.8	0	0.0	0	0

1/ SPANISH AMERICAN MAY INCLUDE WHITE, BLACK, OR OTHER RACES.

SOURCE... SIXTH COUNT SUMMARY POPULATION TAPE

OCCUPATIONAL MANPOWER CHARACTERISTICS

CRAFTSMEN AND KINDRED WORKERS -- TOTAL

MALES...

EMPLOYMENT STATUS OF PERSONS 16+

ITEM	TOTAL	WHITE	BLACK	OTHER RACES	SP. AM. 1/
EXPERIENCED LABOR FORCE	141,137	116,980	23,963	194	422
EMPLOYED	137,739	114,570	22,986	183	389
UNEMPLOYED	3,398	2,410	977	11	33
UNEMPLOYMENT RATE	2.4	2.1	4.1	5.7	7.8
EXP. NOT IN LABOR FORCE	19,372				
LAST WORKED 1960-1963	2,670				
LAST WORKED 1964-1968	6,931				
LAST WORKED 1969-1970	9,771				

EMPLOYED PERSONS 16 YEARS + BY RACE/ETHNIC GROUP

ITEM	NO.	PCT.
TOTAL EMPLOYED	137,739	100.0
WHITE	114,570	83.2
BLACK	22,986	16.7
OTHER RACES 1/	183	.1
SPANISH AMERICAN	389	.3

PERSONS IN EXP. CIVILIAN LABOR FORCE 16 YEARS + BY EARNINGS IN 1969 BY RACE/ETHNIC GROUP

	TOTAL	BLACK	SP. AM.
TOTAL EMPLOYED	137,739	22,986	389
TOTAL WITH EARNINGS	139,070	23,367	413
MEDIAN EARNINGS ($)	6,405	4,047	6,308
WITH EARNINGS			
BELOW $2,000	10,167	3,212	0
BELOW $4,000	29,486	11,453	56
BELOW $5,000	44,059	16,338	125
BELOW $6,000	62,303	19,373	196
ABOVE $10,000	16,908	301	107
ABOVE $15,000	2,583	43	40
TOTAL WORKED 50-52 WKS	110,996	15,830	320
PERCENT OF EARNERS	79.8	67.7	77.5
MEDIAN EARNINGS ($)	6,909	4,434	7,357
WITH EARNINGS			
BELOW $2,000	3,329	947	0
BELOW $4,000	14,883	6,261	30
BELOW $5,000	25,871	10,072	72
BELOW $6,000	41,075	12,485	121
ABOVE $10,000	15,586	229	101
ABOVE $15,000	2,344	38	34
TOTAL WITH EARNINGS	139,070	23,367	413
PERCENT WITH EARNINGS	100.0	100.0	100.0
BELOW $2,000	7.3	13.7	0.0
BELOW $4,000	21.2	49.0	13.6
BELOW $5,000	31.7	69.9	30.3
BELOW $6,000	44.8	82.9	47.5
ABOVE $10,000	12.2	1.3	25.9
ABOVE $15,000	1.9	.2	9.7
TOTAL WORKED 50-52 WKS	110,996	15,830	320
PERCENT WITH EARNINGS	100.0	100.0	100.0
BELOW $2,000	3.0	6.0	0.0
BELOW $4,000	13.4	39.6	9.4
BELOW $5,000	23.3	63.6	22.5
BELOW $6,000	37.0	78.9	37.8
ABOVE $10,000	14.0	1.4	31.6
ABOVE $15,000	2.1	.2	10.6

EXPERIENCED LABOR FORCE 16 YEARS + BY WEEKS WORKED IN 1969

ITEM	NO.	PCT.
EXPERIENCED LABOR FORCE TOTAL	141,137	
TOTAL WHO WORKED	139,236	100.0
50-52 WEEKS	111,058	79.8
27-49 WEEKS	22,198	15.9
1-25 WEEKS	5,980	4.3
DID NOT WORK IN 1969	1,901	

EMPLOYED 14 YEARS + BY AGE

	NO.	PCT.
TOTAL 14 YEARS +	138,201	100.0
14-15 YEARS	462	.3
16-17 YEARS	1,203	.9
18-19 YEARS	3,314	2.4
20-24 YEARS	15,042	10.9
25-34 YEARS	36,805	26.6
35-44 YEARS	32,269	23.3
45-54 YEARS	30,074	21.8
55-64 YEARS	16,253	11.8
65 YEARS AND OVER	2,779	2.0
MEDIAN AGE	38.8	

EMPLOYED 16 YEARS + BY CLASS OF WORKER AND RACE/ETHNIC GROUP

ITEM	TOTAL NO.	TOTAL PCT.	BLACK NO.	BLACK PCT.	SP. AM. 1/ NO.	SP. AM. 1/ PCT.
TOTAL --	137,739	100.0	22,986	100.0	389	100.0
PRIV WAGE + SAL	115,574	83.9	18,985	82.6	279	71.7
PRIVATE CO.	114,658	83.2	18,909	82.3	279	71.7
OWN BUS. INC	916	.7	76	.3	0	0.0
GOVERNMENT	11,418	8.3	2,230	9.7	92	23.7
FEDERAL	6,681	4.9	1,121	4.9	84	21.6
STATE	2,727	2.0	562	2.4	8	2.1
LOCAL	2,010	1.5	547	2.4	0	0.0
OWN BUS, NOT INC	10,641	7.7	1,759	7.7	18	4.6
UNPAID FAMILY	106	.1	12	.1	0	0.0

OURCE -- SIXTH COUNT SUMMARY POPULATION TAPE

1/ SPANISH AMERICAN MAY INCLUDE WHITE, BLACK, OR OTHER RACES.

OCCUPATIONAL MANPOWER CHARACTERISTICS

ALL OCCUPATIONS, FEMALE - TOTAL

FEMALES...

EMPLOYMENT STATUS OF PERSONS 16+

ITEM	TOTAL	WHITE	BLACK	OTHER RACES	SP. AM. 1/
EXPERIENCED LABOR FORCE	404,137	287,609	115,872	656	958
EMPLOYED	384,517	276,901	106,990	626	881
UNEMPLOYED	19,620	10,708	8,882	30	77
UNEMPLOYMENT RATE	4.9	3.7	7.7	4.6	8.0
EXP. NOT IN LABOR FORCE	198,519				
LAST WORKED 1960-1963	24,344				
LAST WORKED 1964-1968	75,389				
LAST WORKED 1969-1970	98,786				

EMPLOYED PERSONS 16 YEARS + BY RACE/ETHNIC GROUP

ITEM	NO.	PCT.
TOTAL EMPLOYED	384,517	100.0
WHITE	276,901	72.0
BLACK	106,990	27.8
OTHER RACES 1/	626	.2
SPANISH AMERICAN	881	.2

PERSONS IN EXP. CIVILIAN LABOR FORCE 16 YEARS + BY EARNINGS IN 1969 BY RACE/ETHNIC GROUP

	TOTAL	BLACK	SP. AM.
TOTAL EMPLOYED	384,517	106,990	881
TOTAL WITH EARNINGS	375,466	106,723	855
MEDIAN EARNINGS ($)	3,352	1,914	3,531
WITH EARNINGS			
BELOW $2,000	114,845	55,389	196
BELOW $4,000	233,329	89,191	508
BELOW $5,000	292,702	96,935	626
BELOW $6,000	331,467	101,381	762
ABOVE $10,000	4,159	293	7
ABOVE $15,000			
TOTAL WORKED 50-52 WKS	212,496	53,389	386
PERCENT OF EARNERS	56.6	50.0	45.1
MEDIAN EARNINGS ($)	4,047	2,566	4,588
WITH EARNINGS			
BELOW $2,000	32,926	21,042	57
BELOW $4,000	104,017	42,522	140
BELOW $5,000	151,477	48,061	230
BELOW $6,000	182,130	50,817	320
ABOVE $10,000	3,293	208	7
ABOVE $15,000			
TOTAL WITH EARNINGS	375,466	106,723	855
PERCENT WITH EARNINGS	100.0	100.0	100.0
BELOW $2,000	30.6	51.9	22.9
BELOW $4,000	62.1	83.6	59.4
BELOW $5,000	78.0	90.8	73.2
BELOW $6,000	88.3	95.0	89.1
ABOVE $10,000	1.1	.3	.8
ABOVE $15,000			
TOTAL WORKED 50-52 WKS	212,496	53,389	386
PERCENT WITH EARNINGS	100.0	100.0	100.0
BELOW $2,000	15.5	39.4	14.8
BELOW $4,000	49.0	79.6	36.3
BELOW $5,000	71.3	90.0	59.6
BELOW $6,000	85.7	95.2	82.9
ABOVE $10,000	1.5	.4	1.8
ABOVE $15,000			

EXPERIENCED LABOR FORCE 16 YEARS + BY WEEKS WORKED IN 1969

ITEM	NO.	PCT.
EXPERIENCED LABOR FORCE TOTAL	404,137	
TOTAL WHO WORKED	379,913	100.0
50-52 WEEKS	215,353	56.7
27-49 WEEKS	103,528	27.3
1-25 WEEKS	61,032	16.1
DID NOT WORK IN 1969	24,224	

EMPLOYED 14 YEARS + BY AGE

	NO.	PCT.
TOTAL 14 YEARS +	387,469	100.0
14-15 YEARS	2,952	.8
16-17 YEARS	8,023	2.1
18-19 YEARS	17,766	4.6
20-24 YEARS	57,706	14.9
25-34 YEARS	81,475	21.0
35-44 YEARS	83,938	21.7
45-54 YEARS	76,865	19.8
55-64 YEARS	46,553	12.0
65 YEARS AND OVER	12,191	3.1
MEDIAN AGE	38.1	

EMPLOYED 16 YEARS + BY CLASS OF WORKER AND RACE/ETHNIC GROUP

ITEM	TOTAL NO.	TOTAL PCT.	BLACK NO.	BLACK PCT.	SP. AM. 1/ NO.	SP. AM. 1/ PCT.
TOTAL --	384,517	100.0	106,990	100.0	881	100.0
PRIV WAGE + SAL	298,614	77.7	84,219	78.7	669	75.9
PRIVATE CO.	296,976	77.2	84,141	78.6	669	75.9
OWN BUS, INC	1,638	.4	78	.1	0	0.0
GOVERNMENT	69,901	18.2	20,606	19.3	172	19.5
FEDERAL	12,360	3.2	2,809	2.6	47	5.3
STATE	24,338	6.3	7,387	6.9	67	7.6
LOCAL	33,203	8.6	10,410	9.7	58	6.6
OWN BUS, NOT INC	12,569	3.3	1,768	1.7	31	3.5
UNPAID FAMILY	3,433	.9	397	.4	9	1.0

JOURCE -- SIXTH COUNT SUMMARY POPULATION TAPE

1/ SPANISH AMERICAN MAY INCLUDE WHITE, BLACK, OR OTHER RACES.

APPENDIX C.-THE LBL COMPUTER MAPPING SYSTEM

THE LBL COMPUTER MAPPING SYSTEM

INTRODUCTION

This booklet describes the computer-based mapping system developed by the Mathematics and Computing Group of the Lawrence Berkeley Laboratory, University of California, with the cooperation of the Department of Labor, the Bureau of the Census, and the Department of Housing and Urban Development.

This system consists of three major components:

- Digitizing the census tract maps
- Editing and coding the digitized map files and creating a geographic data base
- Correlating statistical data with geographical coordinates for the production of microfilm negatives.

THE DIGITIZING SYTEM

The digitized map files required as a data base for this project include the boundaries of approximately 35,000 census tracts in 241 Standard Metropolitan Statistical Areas (SMSA) in the nation. An automated system was developed by LBL in collaboration with the Geography Division of the Bureau of the Census and the i/o Metrics Corporation of Sunnyvale, California.

The basis of the system is the i/o Metrics Corp's SWEEPNIK device built by Laser-Scan Ltd. of Cambridge, England. The heart of the digitizing hardware is a rapidly spinning prism which displaces the light beam from a gas laser into a small circular orbit. The beam is then deflected by mirrors to any point on a 160 mm by 110 mm film plane, where a photomultiplier measures the amount of light transmitted through the film. A pair of interferometers measure the x and y position of the mirrors, giving the beam position on the film plane to an accuracy of 1 micron (0.0001 mm). A minicomputer system is in control of the entire apparatus.

OPERATING PROCEDURE

In operation, rolls of 105 mm positive film containing clean versions of the census tract outlines are automatically positioned in the film plane. A "driver" tape (created from the MEDLIST Tapes) containing fiducial information for the map and identification codes and centroids for each census tract is loaded. The computer reads the identification code and positions the beam at the centroid of the tract. The beam is moved until a boundary line is detected; the computer reads the angles of the edges of the line, computes the center of the line and then moves the beam one step (typically 40 microns) along the direction of the line.

When a line crossing is detected, the computer always chooses the line on the right, thus performing a clockwise scan of each tract boundary. Each record contains an identifier code and the coordinates of points associated with the tract boundary. The first record contains the fiducial points in both latitude, longitude and digitizer coordinates, allowing for the transformation of the boundary points to absolute earth grid coordinates.

The SWEEPNIK includes an operator console consisting of a TV monitor, a large Fresnel screen showing the film image, a track ball for manually positioning the beam, a teletype and a storage tube display. This allows operator interaction for ambiguous spots on the film where the line following algorithm is unable to decipher the boundary. Also, split tracts and zero population tracts for which no centroids are available on the MEDLIST tapes can be specified on line by the operator.

THE MAPEDIT SYSTEM

LBL's MAPEDIT system consists of four programs which process the digitizer output and create the final geographic data base. The first program is responsible for converting between formats required for other programs, noise removal and line smoothing, inset correction, and boundary matching and aggregation.

The major problems handled by this program were due to the original cartography found in the census

tract outline maps. Insets were originally drawn, and thus digitized, at a much larger scale than the base maps, and this finer resolution has to be matched with the base map when the coordinates are converted to the fixed set of earth grid coordinates. This was implemented by providing a four-point transformation which allows for translations, rotations, scaling on each axis, skewing and a distorting transformation which allows for a shape change. A boundary matching algorithm compares the boundaries of adjacent tracts which are mismatched and moves or adds points to attempt an exact fit.

HIGH RESOLUTION PLOTS

The second program provides a reproduction of the map on 105 mm microfiche with a latitude-longitude grid overlay. The microfiche is examined with viewers at a scale of approximately 1000 meters to the inch, equivalent to a map 10 feet wide.

INTERACTIVE EDITING

The third program is an interactive graphics editing program developed from the graphics modeling system named PICASSO developed at LBL. This program uses the CDC 250 VISTA system or the DEC GT40 equipped with CRT consoles, lightpens, keyboards and teletypes, interfaced to a multiprogrammed CDC 6600. Tract boundaries reside on a random-access disk file and are read into memory and displayed on a refresh CRT by editor request. The editor may move, add or delete points by lightpen selection of the appropriate command from a command list and by pointing to the points to be altered to agree with the tract boundaries as shown on the original map. Tracts which were missed may be drawn in by hand using a data tablet, and identification codes may be corrected. The picture can be zoomed to any scale for ease of editing, and the picture can be panned easily to facilitate stepping around the boundary. The program is used to edit every census tract to ensure accuracy and completeness.

GEOCODING

The fourth program in the system inserts a set of seven geocodes (state, SMSA, urban area, county, place, MCD, tract) from the MEDLIST tapes and saves two copies of the resulting file; one on magnetic tape and one on LBL's IBM 1360 photodigital chip store device.

GEOGRAPHIC DATA BASE

The geographic data base created or edited on this system so far includes:

- U.S. by state (50 state boundaries)
- U.S. by county (ca. 3,200 county boundaries)
- U.S. by SMSA (ca. 275 SMSA boundaries)
- 241 SMSA's by census tract (ca. 35,000 tract boundaries)
- Point locations for some 500 cities.

THE CARTE SYSTEM

CARTE is the graphics display program of the LBL Computer Mapping System, producing thematic maps on microfilm at one hundredth the cost of producing negatives by hand. The program matches a geographical area, or a symbol representing such an area, with statistical data to produce graphic output on 35 mm film in the form of cross-hatched maps for single-color printing or slides, or color separation frames for multi-color printing (either computer-generated dot screens or total mask frames for photographic screening).

A versatile set of directives allows the user to design the map and a corresponding report, and to specify such features as automatic placement of area names, calculation of a smooth distribution for color coding and boundary clipping to specified limits for sectioning a map.

SYMBOL MAPPING

CARTE was first designed for choropleth (thematic) mapping, where geographic entities are accurately described by polygons. Geographic entities may also be points and lines. To shade point data it is necessary to represent each point by a symbol. This process is called symbol mapping. User-defined symbols, each defining a locality type, are placed at specified coordinates on a base map and shaded according to the range of a common attribute. Examples are allocation of funding by type of entity and power output by type of generation facility.

FILM PRODUCTION

The input to the mapping system consists of two components: a digitized file of tract boundary lines and a computer file containing the tract data that are to be mapped. These two elements are processed through the CARTE program to produce a strip of microfilm containing several images for each map. These microfilm images which are, in fact, miniature color separation negatives, are enlarged and photographically screened to produce the press negatives for the printer.

COMPUTER OUTPUT TO MICROFILM

The COM used is the Stromberg Carlson Datagraphix 4460. The image is rapidly created on a 3 inch square in the center of a 5 inch cathode ray tube. Across the 3 inches there are 4096 addressable point locations. The maps are drawn by an electron beam which is moved in successive vectors under control of the mapping program which "instructs" the SC4460 to display the tract boundaries. Once a picture is drawn (displayed) on the CRT, it is photographed on microfilm. Each frame of film includes only the tracts that fall into a particular class interval and are thus to be shown as a separate color on the printed maps. Each class interval is printed in a separate color. The images are, in fact, clear "windows" surrounded by an unexposed, or black negative.

Several frames of 35 mm film, one window negative for each class interval plus one additional frame containing the outline of the tract boundaries and the titles and legends, are produced on the COM unit for each map. Each frame of microfilm also contains precise registration marks to assure proper alignment of the separate frames during subsequent processing. Each negative is enlarged to the exact publication size. The enlarged negatives are screened to produce, for each map separately, the final composite negatives for color printing. The titles, legend and credits are either drawn by the COM or may be transferred manually to the enlarged tract boundary outline image. The placement of this information varies, depending upon the physical shape of the area.

These techniques result in the production of traditional color separation map negatives of the same high level of quality as found in traditional cartography at a small fraction of the cost of manual techniques. The cross-hatched maps are produced on a single frame, suitable for slides or for enlarging to print size.

LBL COMPUTER MAPPING PROJECTS 1973 - PRESENT

MANPOWER INDICATOR ATLAS FOR REGION IX

300 color maps and corresponding tables of Federal Region IX by county showing socio-economic-demographic data extracted from the 1970 census.

ADMINISTRATIVE ATLAS

18 black and white cross-hatched maps and corresponding tables of Federal Region IX by county indicating dollars and manpower slots authorized by the U.S. Department of Labor for contracts active March 31, 1973.

PILOT LAND USE INFORMATION SYSTEM: PART III, VOLUME V

13 black and white cross-hatched and color maps showing property values of about 500 parcels of land about a quarter-mile radius around a rapid transit station in Walnut Creek, California.

MANPOWER INDICATOR ATLAS - DENVER/BOULDER SMSA

57 color maps and 19 corresponding tables showing socio-economic-demographic data extracted from the 1970 census; for each of the 19 data items selected there are 3 maps: one of the entire Denver/Boulder SMSA by census tract, one Denver area inset by census tract, and one Boulder area inset by census tract.

MANPOWER INDICATOR ATLAS - PHOENIX SMSA

Similar to the Denver/Boulder atlas, 24 color maps and 12 corresponding tables showing socio-economic-demographic data extracted from the 1970 census; for each of the 12 data items selected there are two maps: one of the entire Phoenix SMSA by census tract and one Phoenix area by census tract.

NORTHWEST REGIONAL PROFILE

14 color maps and corresponding tables of Federal Region X by county showing socio-economic-demographic data extracted from the 1970 census.

CETA ADMINISTRATIVE MAPS

5 color maps: two U.S. by state, one U.S. by county, one U.S. by SMSA, and one for Federal Region IX by county. Corresponding tables show the allocation of fiscal year 1974 Federal funds under the terms of the Comprehensive Employment and Training Act (CETA) of 1973, Title II.

ENVIRONMENTAL IMPACT STUDY MAPS

A series of 37 black and white cross-hatched maps for the U.S. Army Corps of Engineers showing selected socio-economic-demographic data for SMSA's from 5 states and combined county corridor areas bordering the upper Mississippi and Illinois rivers.

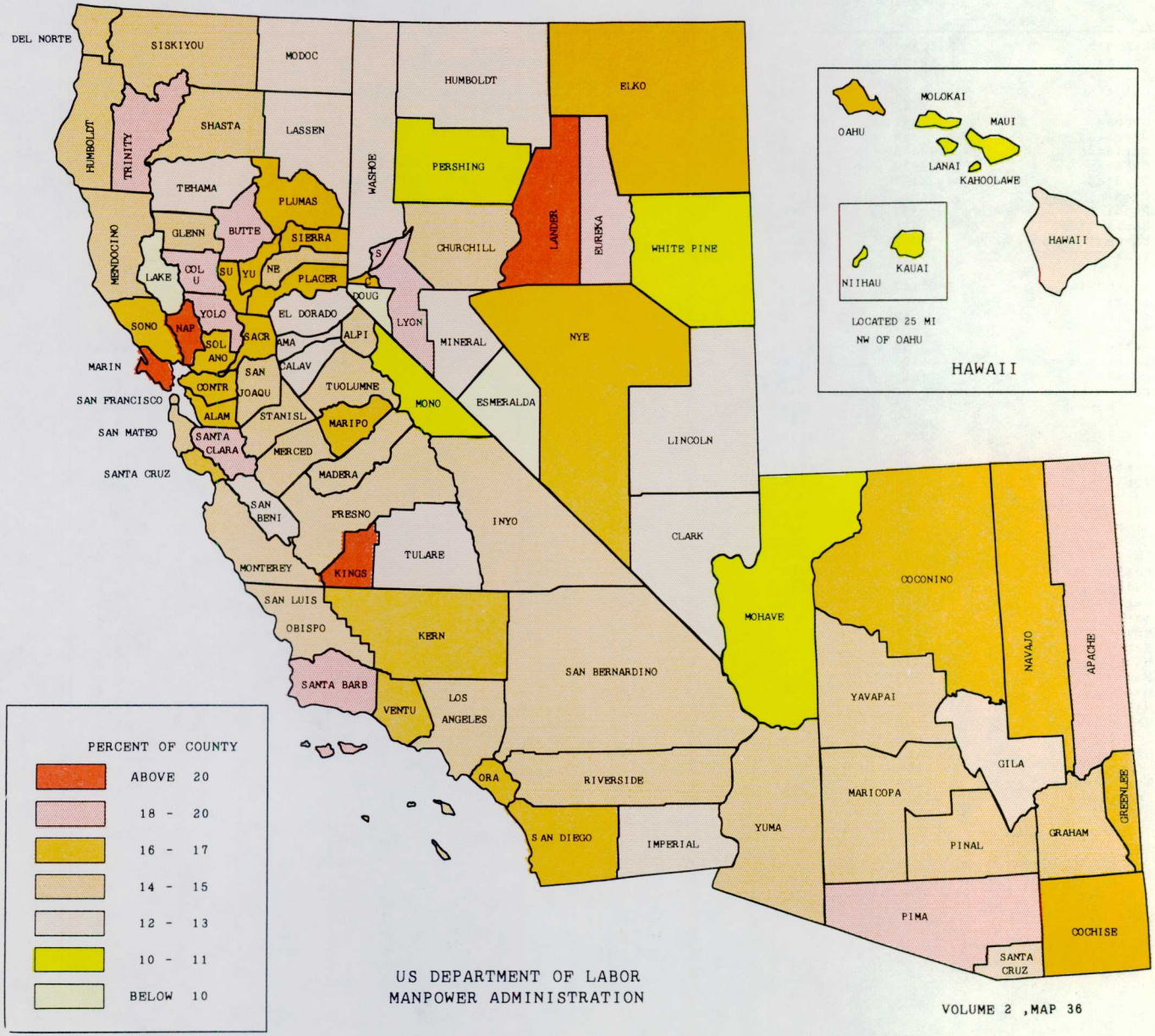
SMSA URBAN ATLASES

A series of 65 atlases, one for each of the largest U.S. urban areas, portraying selected 1970 census characteristics by census tract; each atlas is composed of from 12 to 60 colored maps (available from the Government Printing Office).

PROFESSIONAL WORKERS - ALL FEMALES

RUN DATE 73/04/30.
LAWRENCE BERKELEY LABORATORY
1970 CENSUS OF POPULATION

ARIZONA - CALIFORNIA - HAWAII - NEVADA -- FEDERAL REGION IX



US DEPARTMENT OF LABOR
MANPOWER ADMINISTRATION

VOLUME 2 ,MAP 36

U S DEPARTMENT OF LABOR
MANPOWER ADMINISTRATION

TABLE 36

RUN DATE 73/04/30.
LAWRENCE BERKELEY LABORATORY

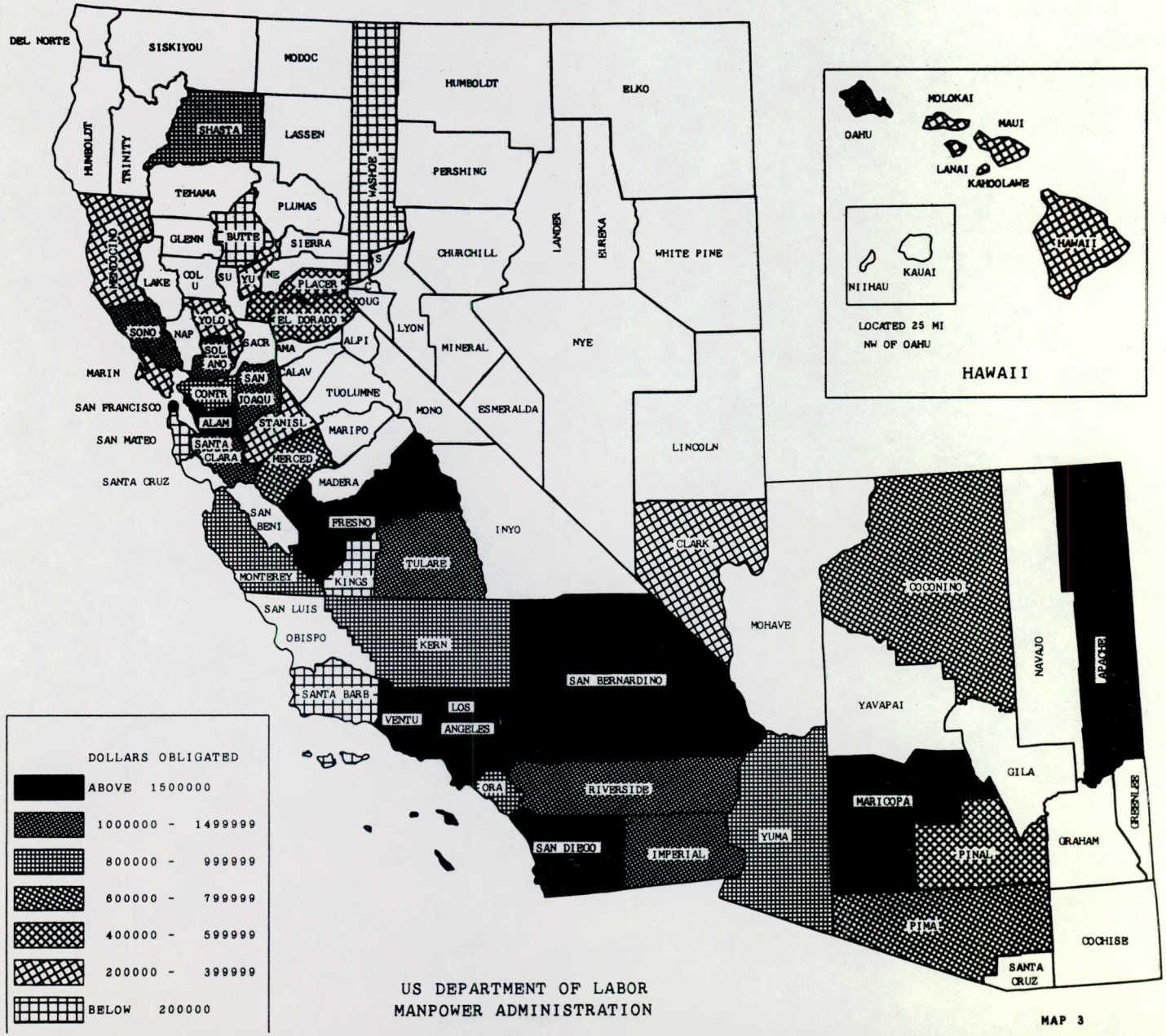
PROFESSIONAL WORKERS - ALL FEMALES

STATE AND COUNTY	TOTAL ALL OCCUPATIONS	PROFESSIONAL OCCUPATIONS	PERCENT OF COUNTY	PERCENT OF REGION
ARIZONA	230852	37089	16.1	7.2
Apache	2405	479	19.9	.1
Cochise	6113	1050	17.2	.2
Coconino	6188	1099	17.8	.2
Gila	2655	345	13.0	.1
Graham	1495	219	14.6	.0
Greenlee	846	150	17.7	.0
Maricopa	140643	21597	15.4	4.2
Mohave	2860	313	10.9	.1
Navajo	4187	668	16.0	.1
Pima	44012	8293	18.8	1.6
Pinal	6334	948	15.0	.2
Santa Cruz	1635	197	12.0	.0
Yavapai	4322	680	15.7	.1
Yuma	7157	1051	14.7	.2
CALIFORNIA	2855187	452482	15.8	87.4
Alameda	161602	27023	16.7	5.2
Alpine	69	10	14.5	.0
Amador	1300	161	12.4	.0
Butte	12050	2233	18.5	.4
Calaveras	1365	171	12.5	.0
Colusa	1511	284	18.8	.1
Contra Costa	73167	12932	17.7	2.5
Del Norte	1780	274	15.4	.1
El Dorado	6272	809	12.9	.2
Fresno	49381	7694	15.6	1.5
Glenn	2081	306	14.7	.1
Humboldt	11578	1743	15.1	.3
Imperial	8162	1065	13.0	.2
Inyo	2104	311	14.8	.1
Kern	37978	6083	16.0	1.2
Kings	6632	1338	20.2	.3
Lake	2181	206	9.4	.0
Lassen	1786	239	13.4	.0
Los Angeles	1105110	162658	14.7	31.4
Madera	4123	585	14.2	.1
Marin	29947	6489	21.7	1.3
Mariposa	711	119	16.7	.0
Mendocino	6252	939	15.0	.2
Merced	11203	1769	15.8	.3
Modoc	1048	142	13.5	.0
Mono	683	69	10.1	.0
Monterey	30852	4687	15.2	.9
Napa	10768	2229	20.7	.4
Nevada	3136	459	14.6	.1
Orange	195681	31989	16.3	6.2
Placer	9013	1539	17.1	.3
Plumas	1458	243	16.7	.0
Riverside	56679	8930	15.8	1.7
Sacramento	89629	14655	16.4	2.8
San Benito	2241	286	12.8	.1
San Bernardino	81538	12384	15.2	2.4
San Diego	166534	28192	16.9	5.4
San Francisco	143021	22287	15.6	4.3
San Joaquin	34783	5449	15.7	1.1
San Luis Obispo	13264	2087	15.7	.4
San Mateo	92562	13621	14.7	2.6
Santa Barbara	37511	6783	18.1	1.3
Santa Clara	149911	28946	19.3	5.6
Santa Cruz	16858	2716	16.1	.5
Shasta	9248	1429	15.5	.3
Sierra	286	47	16.4	.0
Siskiyou	3476	506	14.6	.1
Solano	19206	3250	16.9	.6
Sonoma	25231	4470	17.7	.9
Stanislaus	23236	3684	15.9	.7
Sutter	4719	843	17.9	.2
Tehama	3444	412	12.0	.1
Trinity	694	138	19.9	.0
Tulare	24543	3360	13.7	.6
Tuolumne	2617	376	14.4	.1
Ventura	46502	7645	16.4	1.5
Yolo	12671	2523	19.9	.5
Yuba	3799	665	17.5	.1
HAWAII	117398	18675	15.9	3.6
Hawaii	9121	1237	13.6	.2
Honolulu	97007	16102	16.6	3.1
Kauai	4405	517	11.7	.1
Maui	6865	819	11.9	.2
NEVADA	73384	9600	13.1	1.9
Churchill	1207	189	15.7	.0
Clark	38899	4830	12.4	.9
Douglas	1177	82	7.0	.0
Elko	2017	323	16.0	.1
Esmeralda	39	0	.0	.0
Eureka	120	23	19.2	.0
Humboldt	936	124	13.2	.0
Lander	260	67	25.8	.0
Lincoln	308	38	12.3	.0
Lyon	865	172	19.9	.0
Mineral	1124	147	13.1	.0
Nye	628	106	16.9	.0
Pershing	353	37	10.5	.0
Storey	183	33	18.0	.0
Washoe	21705	2864	13.2	.6
White Pine	1021	118	11.6	.0
Carson City City	2542	447	17.6	.1

EOA PROGRAMS -- DOLLARS OBLIGATED IN CONTRACTS ACTIVE JUNE 30, 1973

RUN DATE 73/10/17.
LAWRENCE BERKELEY LABORATORY
1970 CENSUS OF POPULATION

ARIZONA - CALIFORNIA - HAWAII - NEVADA -- FEDERAL REGION IX

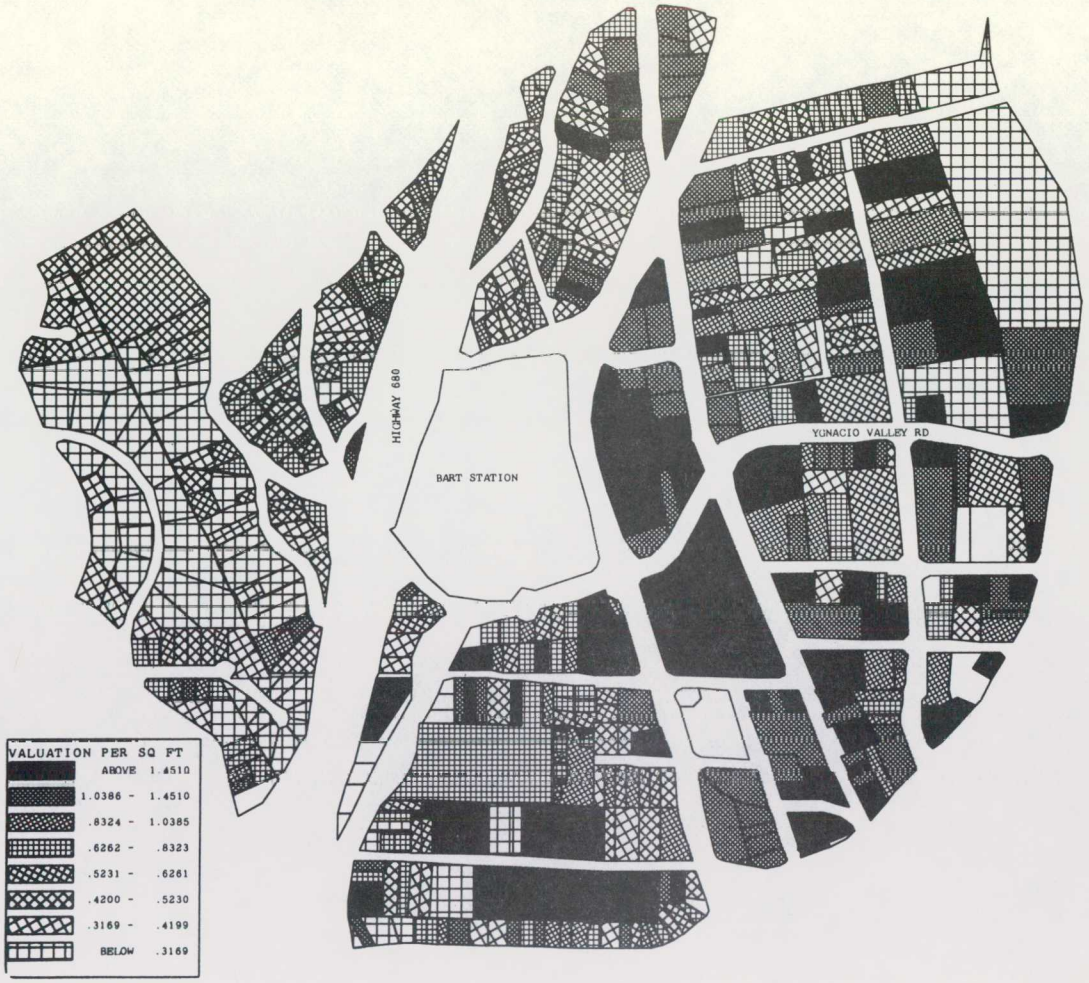


US DEPARTMENT OF LABOR
MANPOWER ADMINISTRATION

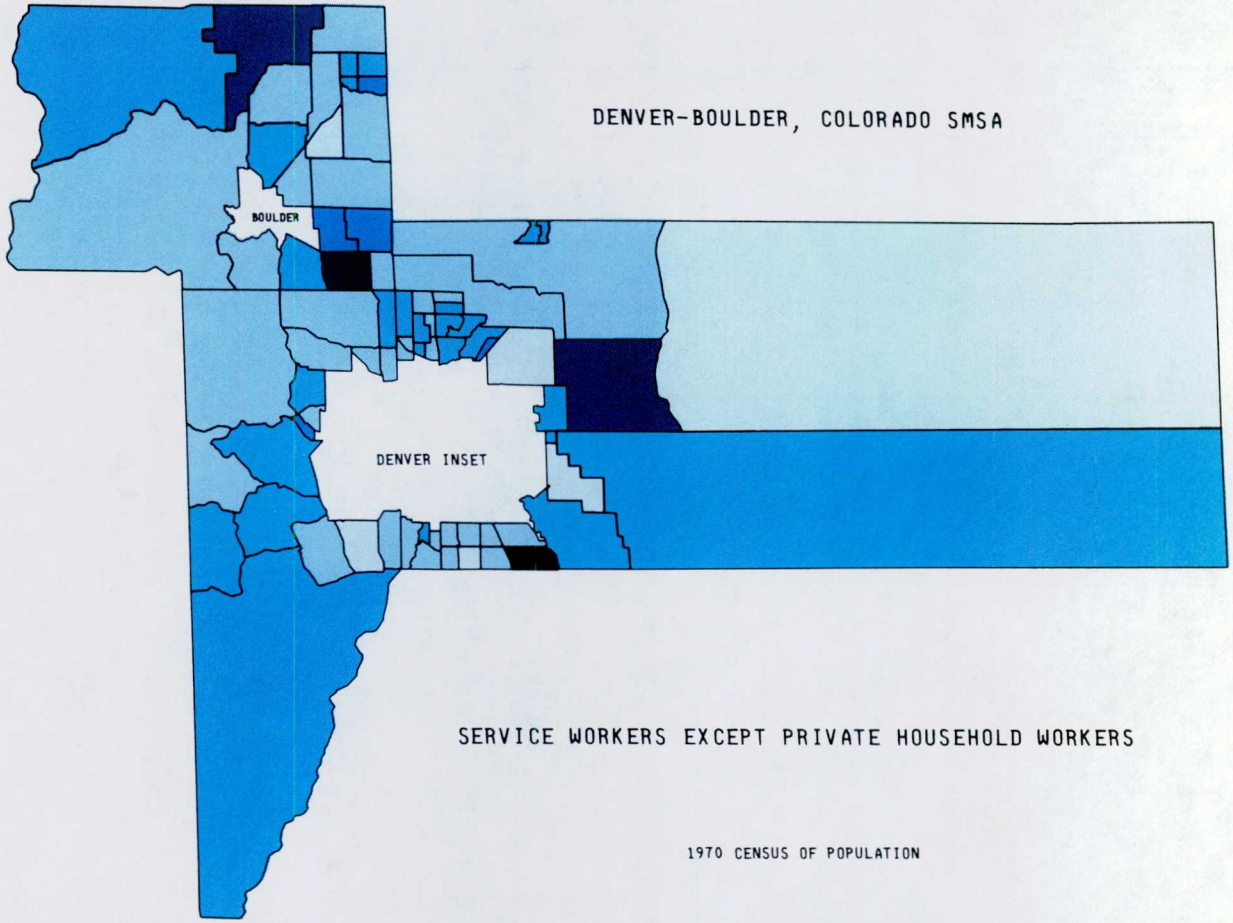
MAP 3

MAP 2B

WALNUT CREEK BART STATION STUDY AREA
ASSESSED VALUATION PER SQUARE FOOT - 19



DENVER-BOULDER, COLORADO SMSA



SERVICE WORKERS EXCEPT PRIVATE HOUSEHOLD WORKERS

1970 CENSUS OF POPULATION

LEGEND

PERCENT OF TRACT

DATA NOT AVAILABLE	BELOW 5	5 - 9	10 - 14	15 - 19	20 - 25	ABOVE 25

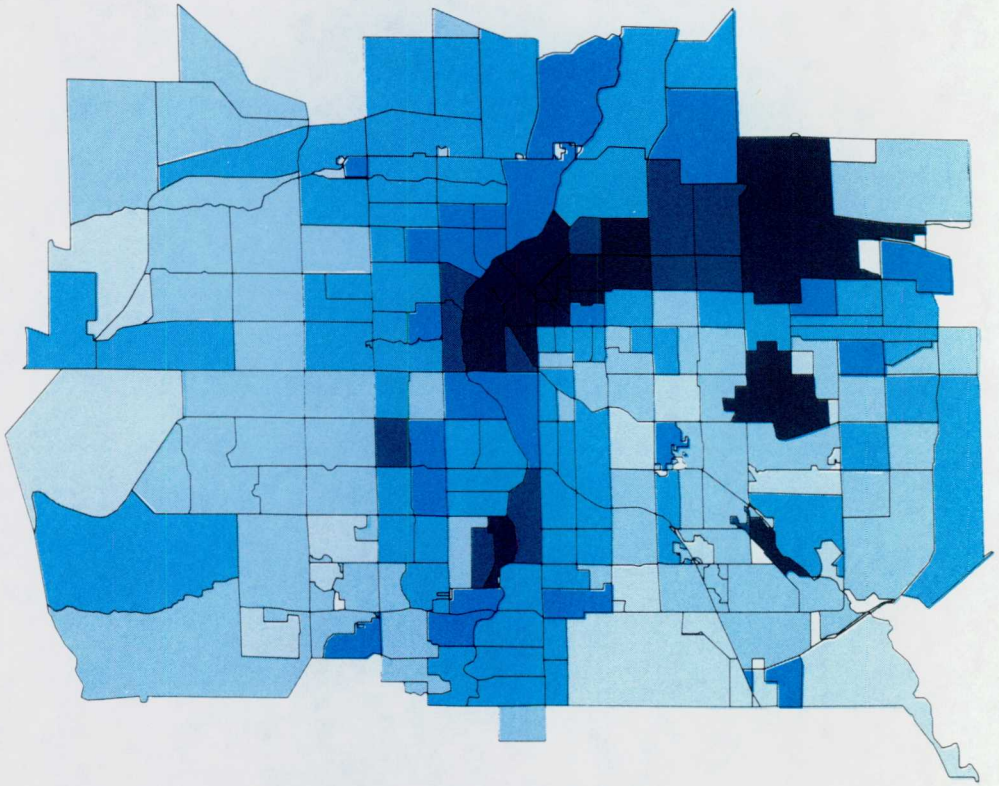
U.S. DEPARTMENT OF LABOR
MANPOWER ADMINISTRATION

LAWRENCE BERKELEY LABORATORY
UNIVERSITY OF CALIFORNIA

SERVICE WORKERS, EXCEPT PRIVATE HOUSEHOLD WORKERS

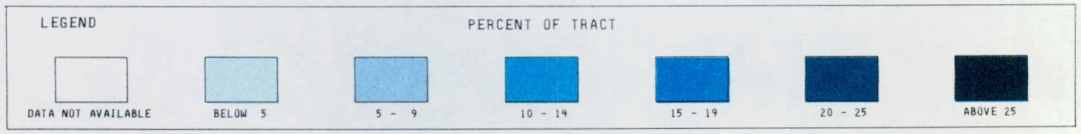
COUNTY AND CENSUS TRACT	TOTAL ALL OCCUP.	SERV. WORKERS EXCEPT PRIV. HOUSEHOLD	PERCENT OF TRACT	PERCENT OF SMSA
DENVER	492,961	58,226	11.8	100.0
ADAMS	69,284	8,263	11.9	14.2
7800	2,246	324	14.4	.6
7900	2,129	374	17.6	.6
8000	2,409	335	13.9	.6
8100	905	107	11.8	.2
8200	2,281	423	18.5	.7
8302	723	91	12.6	.2
8303	197	41	20.8	.1
8400	634	11	1.7	.0
8501	3,768	395	10.5	.7
8502	3,192	265	8.3	.5
8503	975	61	6.3	.1
8504	984	64	6.5	.1
8601	1,153	137	11.9	.2
8602	2,017	252	12.5	.4
8701	62	0	.0	.0
8702	3,909	546	14.0	.9
8703	1,858	298	16.0	.5
8801	1,651	259	15.7	.4
8802	1,717	185	10.8	.3
8901	1,116	157	14.1	.3
8952	601	118	19.6	.2
9000	3,107	427	13.7	.7
9100	2,526	365	14.4	.6
9200	2,009	290	14.4	.5
9301	3,754	365	9.7	.6
9302	2,990	319	10.7	.5
9303	1,231	154	12.5	.3
9304	1,424	117	8.2	.2
9305	2,001	162	8.1	.3
9401	2,142	138	6.4	.2
9402	1,474	162	11.0	.3
9501	1,762	148	8.4	.3
9502	1,738	214	12.3	.4
9553	1,389	166	12.0	.3
9601	3,417	291	8.5	.5
9602	1,960	271	13.8	.5
9750	1,838	231	12.6	.4
ARAPAHOE	63,500	6,524	10.3	11.2
4052	95	4	4.2	.0
4452	0	0	.0	.0
4852	109	13	11.9	.0
4950	586	89	15.2	.2
5250	57	12	21.1	.0
5350	229	15	6.6	.0
5403	283	59	20.8	.1
5551	503	81	16.1	.1
5552	1,127	202	17.9	.3
5553	1,299	146	11.2	.3
5602	1,593	91	5.9	.2
5603	1,899	105	5.5	.2
5604	3,922	295	7.5	.5
5605	2,362	152	6.4	.3
5606	1,304	49	3.8	.1
5651	2,752	232	8.4	.4
5700	1,402	145	10.3	.2
5800	1,656	171	10.3	.3
5900	2,639	446	16.9	.8
6000	1,604	177	11.0	.3
6100	1,378	203	14.7	.3
6200	1,766	240	13.6	.4
6300	1,595	213	13.4	.4
6400	1,670	233	14.0	.4
6500	2,409	310	12.9	.5
6601	1,836	171	9.3	.3
6602	3,114	246	7.9	.4
6702	537	35	6.5	.1
6703	668	53	7.9	.1
6751	1,489	68	4.6	.1
6805	183	11	6.0	.0
6806	10	5	50.0	.0
6851	*	*	*	*
6852	36	13	36.1	.0
6854	397	16	4.0	.0
6951	688	23	3.3	.0
6952	526	38	7.2	.1
7003	813	70	8.6	.1
7004	731	92	12.6	.2
7005	2,168	185	8.5	.3
7007	1,276	125	9.8	.2
7008	326	39	12.0	.1
7009	16	0	.0	.0
7010	70	9	12.9	.0
7011	261	29	11.1	.0
7051	68	0	.0	.0
7052	449	55	12.2	.1
7056	530	33	6.2	.1
7100	667	71	10.6	.1
7200	2,824	262	9.3	.4
7300	3,055	390	12.8	.7
7400	2,254	349	15.5	.6
7500	1,086	131	12.1	.2
7600	936	63	6.7	.1
7701	1,022	69	6.8	.1
7702	1,270	185	14.6	.3
BOULDER	52,482	6,454	12.3	11.1
12101	2,240	314	14.0	.5
12102	2,609	342	13.1	.6
12103	1,175	104	8.9	.2
12104	202	15	7.4	.0
12201	2,409	476	19.8	.8
12202	1,701	319	18.8	.5
12203	1,046	85	8.1	.1
12300	1,728	406	23.5	.7
12401	2,295	423	18.4	.7
12402	835	74	8.9	.1
12501	412	5	1.2	.0
12502	1,262	61	4.8	.1
12503	493	188	38.1	.3
12504	2,927	281	9.6	.5
12505	1,653	95	5.7	.2
12506	2,444	166	6.8	.3
12601	3,254	409	12.6	.7
12602	293	19	6.5	.0
12701	392	48	12.2	.1
12702	1,115	105	9.4	.2
12703	925	95	10.3	.2
12704	183	26	14.2	.0
12800	764	42	5.5	.1
12900	1,710	263	15.4	.5
13000	1,495	242	16.2	.4
13101	3,353	240	7.2	.4
13102	70	22	31.4	.0
13201	335	20	6.0	.0
13202	273	20	7.3	.0
13203	718	67	9.3	.1
13204	1,079	83	7.7	.1
13205	397	8	2.0	.0
13301	2,537	294	11.6	.5
13302	2,470	300	12.1	.5
13400	1,195	228	19.1	.4
13500	1,931	220	11.4	.4
13601	790	175	22.2	.3
13602	101	11	10.9	.0
13700	1,676	163	9.7	.3
DENVER	212,695	28,886	13.6	49.6
101	1,506	213	14.1	.4
102	1,710	245	14.3	.4
201	1,862	208	11.2	.4
202	1,707	214	12.5	.4
301	2,534	332	13.1	.6
302	1,898	234	12.3	.4
303	2,345	394	16.9	.7
401	1,538	239	15.5	.4
402	3,028	498	16.4	.9
500	3,423	377	11.0	.6
600	1,323	266	20.1	.5
701	1,592	231	14.5	.4
702	2,259	355	15.7	.6
800	562	129	23.0	.2
901	3,389	502	14.8	.9
902	2,333	320	13.7	.5
903	2,057	178	8.7	.3
1000	1,653	254	15.4	.4
1101	996	172	17.3	.3
1102	1,305	248	19.0	.4
1301	1,887	207	11.0	.4
1302	1,685	187	11.1	.3
1401	2,396	282	11.8	.5
1402	1,745	186	10.7	.3
1403	1,335	277	20.7	.5
1500	1,167	191	16.4	.3
1600	1,090	299	27.4	.5
1701	240	84	35.0	.1
1702	1,373	383	27.9	.7
1800	843	199	23.6	.3
1900	1,300	388	29.8	.7
2000	478	122	25.5	.2
2100	2,492	375	15.0	.6
2300	2,417	615	25.4	1.1
2401	1,348	480	35.6	.8
2402	756	258	34.1	.4
2500	459	167	36.4	.3
2601	1,773	522	29.4	.9
2602	1,199	338	28.3	.6
2701	3,350	420	12.5	.7
2702	3,349	266	7.9	.5
2703	3,820	500	13.1	.9
2801	2,006	249	12.4	.4
2802	2,728	373	13.7	.6
2803	2,746	165	6.0	.3
2901	1,901	217	11.4	.4
2902	2,134	298	14.0	.5
3001	3,076	372	12.1	.6
3002	1,435	198	13.8	.3
3003	1,785	244	13.7	.4
3004	2,659	294	11.1	.5
3005	749	65	8.7	.1
3101	1,066	284	26.6	.5
3102	2,038	401	19.7	.7
3201	3,418	442	12.9	.8
3202	1,746	195	11.2	.3
3203	1,394	114	8.2	.2
3300	1,662	108	6.5	.2
3400	3,313	379	11.4	.7
3500	1,946	274	14.1	.5
3601	1,628	402	24.7	.7
3602	1,842	501	27.2	.9
3603	1,909	534	28.0	.9
3701	1,305	136	10.4	.2
3702	3,000	287	9.6	.5
3703	2,109	284	13.5	.5
3800	2,180	206	9.4	.4
3901	1,699	64	3.8	.1
3902	2,136	212	9.9	.4
4001	3,728	317	8.5	.5
4002	1,512	58	3.8	.1
4003	2,706	192	7.1	.3
4004	1,040	30	2.9	.1
4101	1,582	381	24.1	.7
4102	2,183	486	22.3	.8
4103	2,992	636	21.6	1.1
4104	2,567	523	20.4	.9
4105	34	12	35.3	.0
4201	2,424	225	9.3	.4
4202	2,199	241	11.0	.4
4301	3,255	350	10.8	.6
4302	1,329	85	6.4	.1
4303	1,756	58	3.3	.1
4304	2,857	271	9.5	.5
4305	1,684	104	6.2	.2
4401	3,408	483	14.2	.8
4402	243	64	26.3	.1
4501	2,523	535	21.2	.9
4502	2,289	417	18.2	.7
4601	2,842	419	14.7	.7
4602	2,220	333	15.0	.6
4603	2,918	357	12.2	.6
4700	2,393	257	10.7	.4
4801	1,689	167	9.9	.3
4802	1,758	207	11.8	.4
4900	842	54	6.4	.1
5000	2,629	231	8.8	.4
5101	2,416	267	11.1	.5
5102	2,405	203	8.4	.3
5200	1,819	103	5.7	.2
5300	712	75	10.5	.1
5401	33	9	27.3	.0
5402	1,018	101	9.9	.2
5501	*	*	*	*
5502	207	19	9.2	.0
5503	770	42	5.5	.1
5601	427	36	8.4	.1
6701	93	0	.0	.0
6801	1,347	72	5.3	.1
6802	1,029	68	6.6	.1
6803	2,265	139	6.1	.2
6804	62	11	17.7	.0
6901	947	66	7.0	.1
6902	181	9	5.0	.0
7001	1,139	69	6.1	.1
7002	22	0	.0	.0
8301	1,955	143	7.3	.2
9700	18	0	.0	.0
10601	505	92	18.2	.2
11500	39	4	10.3	.0
11901	369	26	7.0	.0
11902	1,456	128	8.8	.2
11903	598	21	3.5	.0
12001	239	35	15.0	.1
JEFFERSON	95,000	8,099	8.5	13.9
9801	1,020	108	10.6	.2
9802	525	52	9.9	.1
9803	989	56	5.7	.1
9804	1,298	143	11.0	.2
9805	869	52	6.0	.1
9806	1,532	46	3.0	.1
9807	704	33	4.7	.1
9808	784	52	6.6	.1
9809	1,139	105	9.2	.2
9810	1,511	183	12.1	.3
9900	732	45	6.1	.1
10000	1,310	218	16.6	.4
10100	1,486	203	13.7	.3
10201	4,803	452	9.4	.8
10202	2,384	135	5.7	.2
10301	4,433	285	6.4	.5
10302	3,710	309	8.3	.5
10402	1,874	187	10.0	.3
10403	1,813	161	8.9	.3
10451	1,463	157	10.7	.3
10501	2,829	154	5.4	.3
10502	2,670	147	5.5	.3
10602	3,540	452	12.8	.8
10651	36	0	.0	.0
10700	3,451	268	7.8	.5
10800	2,628	162	6.2	.3
10900	2,849	300	10.5	.5
11000	2,865	245	8.6	.4
11100	2,562	240	9.4	.4
11200	2,533	209	8.3	.4
11300	1,772	196	11.1	.3
11400	2,366	299	12.6	.5
11550	2,868	347	12.1	.6
11600	3,317	261	7.9	.4
11701	1,283	70	5.5	.1
11702	2,519	227	9.0	.4
11703	2,291	120	5.2	.2
11704	2,336	123	5.3	.2
11705	1,654	80	4.8	.1
11706	337	44	13.1	.1
11707	1,529	78	5.1	.1
11801	1,652	150	9.1	.3
11802	3,674	300	8.2	.5
11951	408	15	3.7	.0
11952	*	*	*	*
11953	88	7	8.0	.0
12002	2,104	169	8.0	.3
12003	31	0	.0	.0
12004	404	40	9.9	.1
12005	242	5	2.1	.0
12006	1,540	191	12.4	.3
12007	202	15	7.4	.0
12008	970	97	10.0	.2
12009	1,019	102	10.0	.2
12051	53	4	7.5	.0

DENVER AREA INSET



SERVICE WORKERS EXCEPT PRIVATE HOUSEHOLD WORKERS

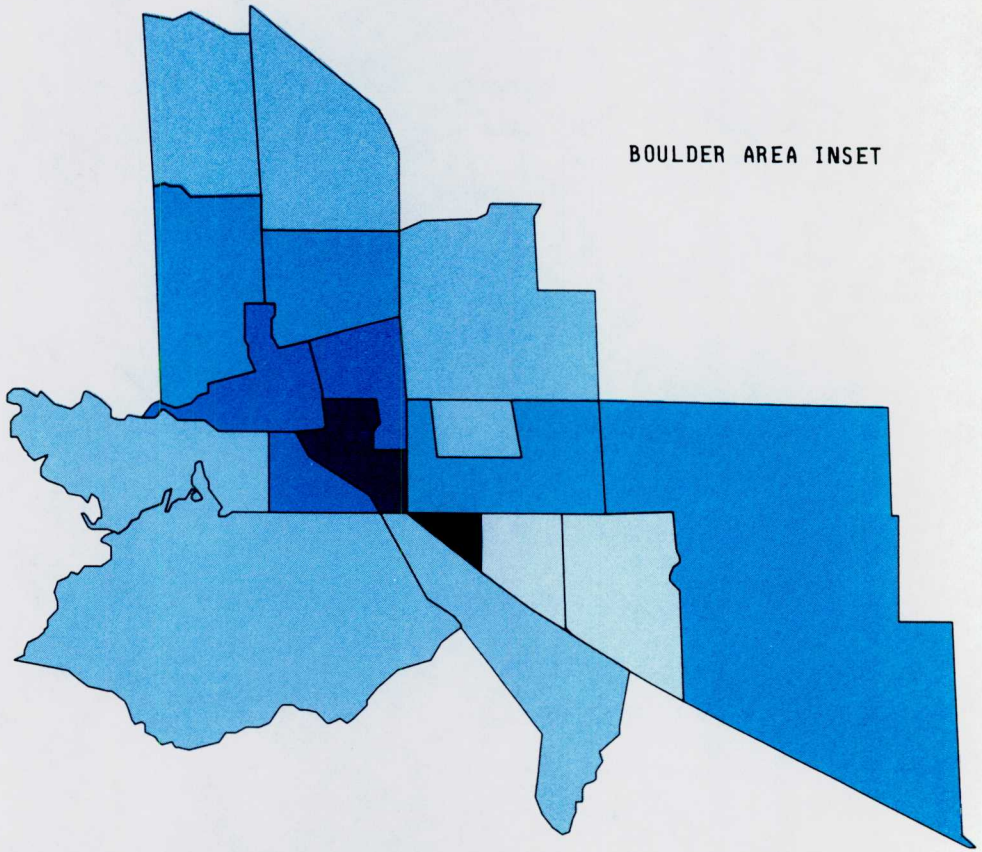
1970 CENSUS OF POPULATION



U.S. DEPARTMENT OF LABOR
MANPOWER ADMINISTRATION

LAWRENCE BERKELEY LABORATORY
UNIVERSITY OF CALIFORNIA

BOULDER AREA INSET



SERVICE WORKERS EXCEPT PRIVATE HOUSEHOLD WORKERS

1970 CENSUS OF POPULATION

LEGEND

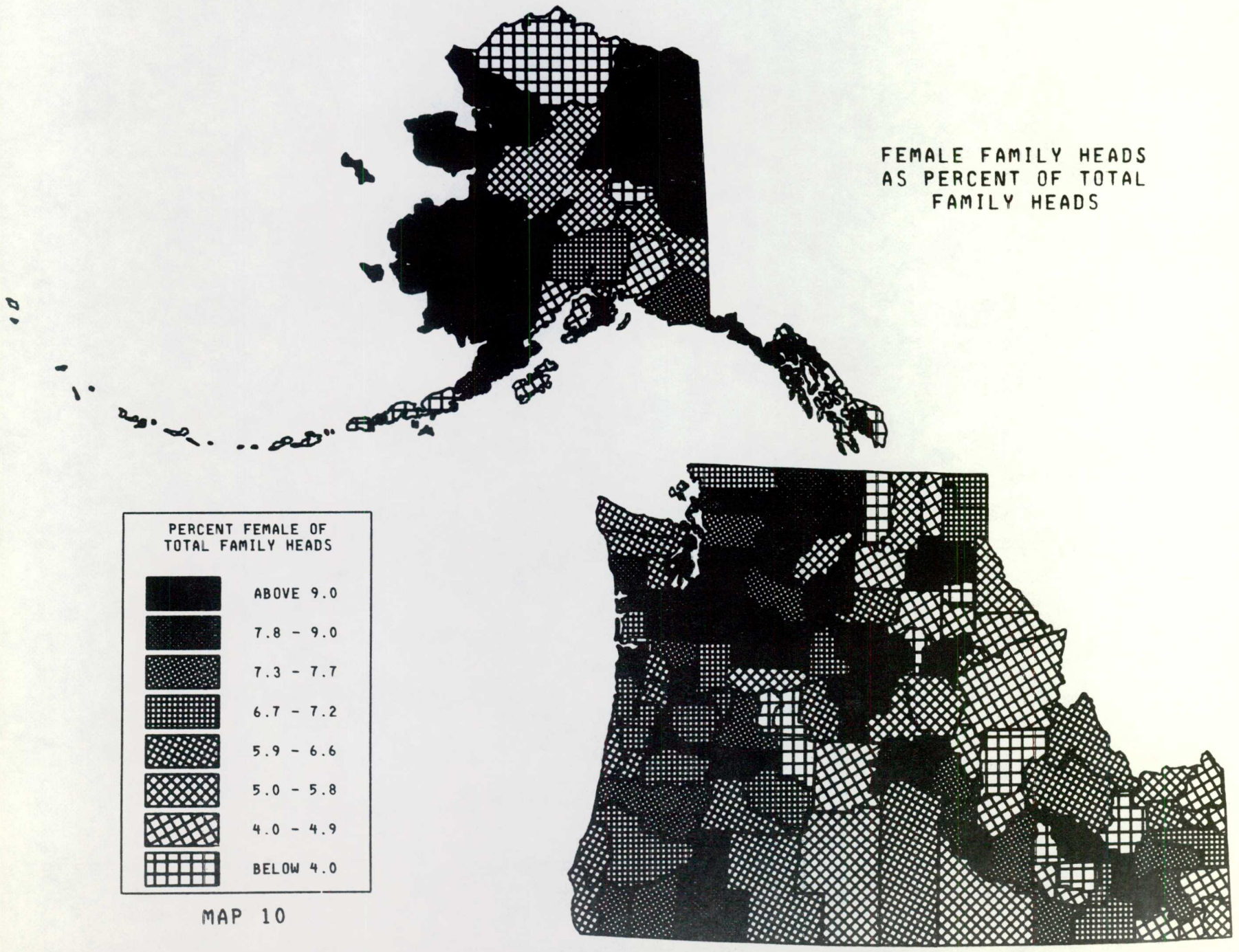
PERCENT OF TRACT

DATA NOT AVAILABLE | BELOW 5 | 5 - 9 | 10 - 14 | 15 - 19 | 20 - 25 | ABOVE 25

U.S. DEPARTMENT OF LABOR
MANPOWER ADMINISTRATION

LAWRENCE BERKELEY LABORATORY
UNIVERSITY OF CALIFORNIA

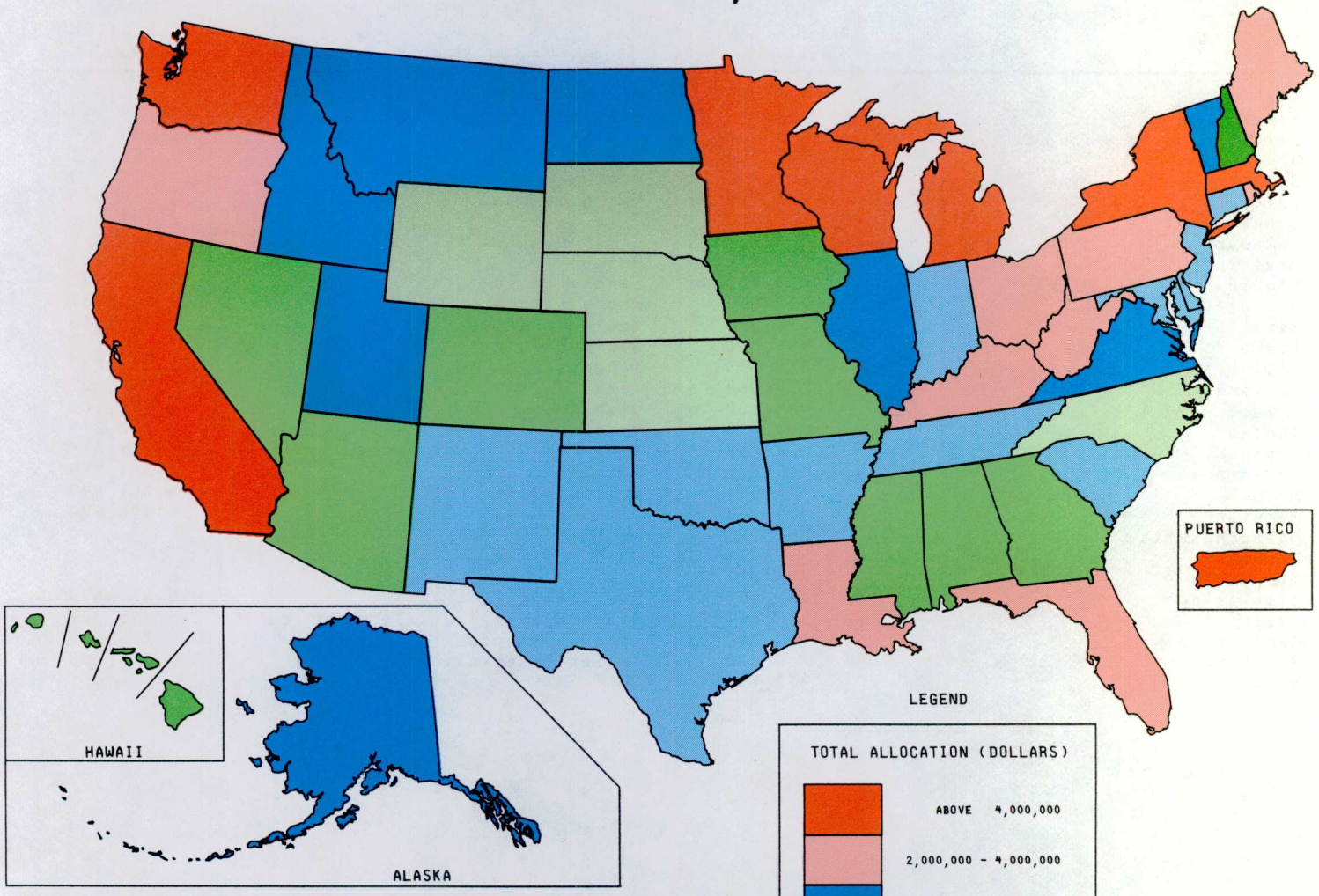
FEMALE FAMILY HEADS
AS PERCENT OF TOTAL
FAMILY HEADS



MAP 10

MAP 2 - Allocation of State Government Portion of CETA Title II Funds For Public Service Employment - FY 1974

United States by State



MEDIAN STATE ALLOCATION
$ 1,368,000

U.S. DEPARTMENT OF LABOR
MANPOWER ADMINISTRATION

LAWRENCE BERKELEY LABORATORY
UNIVERSITY OF CALIFORNIA

TABLE 2 - ALLOCATION OF STATE GOVERNMENT PORTION[1] OF CETA TITLE II FUNDS FOR PUBLIC SERVICE EMPLOYMENT - FY 1974

U.S. DEPARTMENT OF LABOR
MANPOWER ADMINISTRATION

UNITED STATES BY STATE

LAWRENCE BERKELEY LABORATORY
UNIVERSITY OF CALIFORNIA

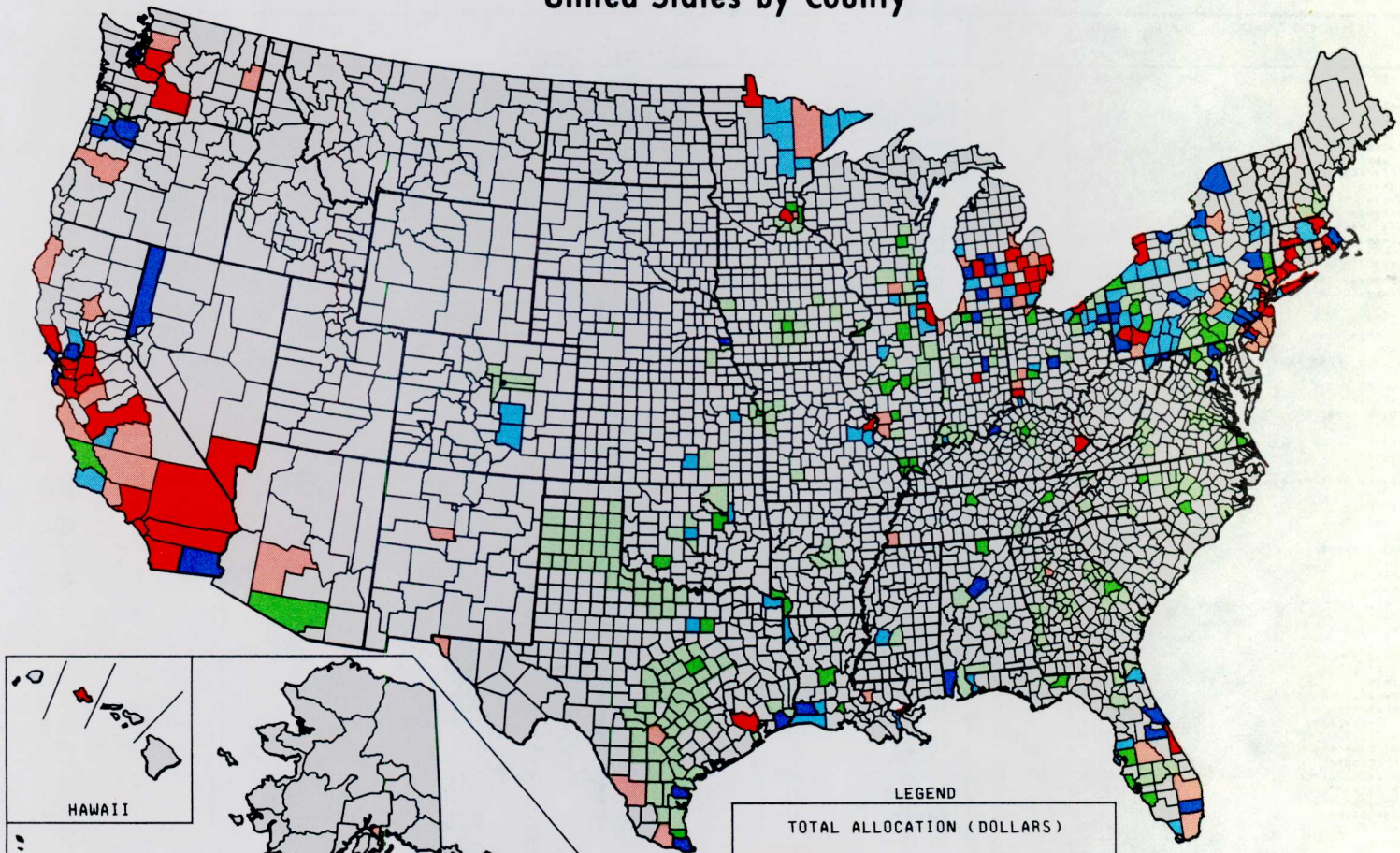
STATE	TOTAL ALLOCATION (DOLLARS)	STATE	TOTAL ALLOCATION (DOLLARS)
Alabama	479,465	New Hampshire	311,234
Alaska	1,842,989	New Jersey	1,019,144
Arizona	140,500	New Mexico	1,330,479
Arkansas	852,774	New York	5,576,351
California	5,212,978	North Carolina	0
Colorado	205,078	North Dakota	1,368,400
Connecticut	769,000	Ohio	2,741,000
Delaware	1,266,312	Oklahoma	947,054
District Of Columbia	2,258,500	Oregon	2,544,293
Florida	2,914,400	Pennsylvania	2,049,722
Georgia	273,353	Rhode Island	2,038,887
Hawaii	738,350	South Carolina	1,200,383
Idaho	1,996,800	South Dakota	0
Illinois	1,379,359	Tennessee	1,334,332
Indiana	1,221,564	Texas	914,039
Iowa	494,300	Utah	1,854,100
Kansas	0	Vermont	1,552,279
Kentucky	2,236,856	Virginia	1,779,814
Louisiana	3,915,830	Washington	5,321,565
Maine	2,771,077	West Virginia	3,261,649
Maryland	909,364	Wisconsin	4,496,520
Massachusetts	10,849,185	Wyoming	0
Michigan	4,845,776		
Minnesota	4,793,023		
Mississippi	702,000	Puerto Rico	10,677,698
Missouri	314,600	A.Samoa-Guam-Trust Territories	345,300
Montana	1,860,200	Virgin Islands	246,700
Nebraska	0	Indian Reservations	1,855,000
Nevada	473,759		

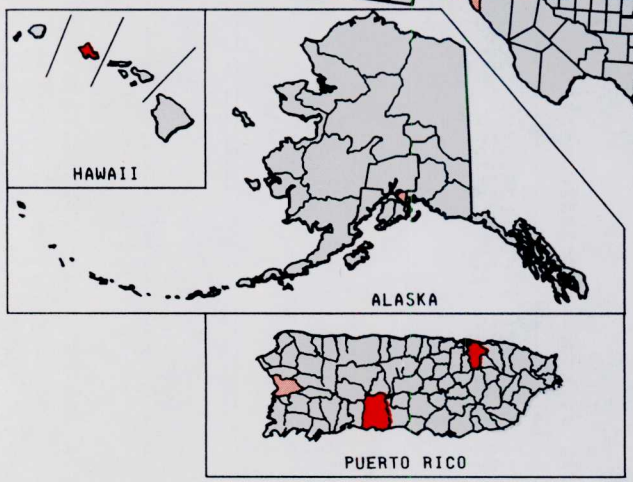
1. FUNDS TO BE ADMINISTERED BY STATE GOVERNMENT FOR BALANCE OF STATE AREA

MEDIAN ALLOCATION BY STATE $ 1,368,000

MEAN ALLOCATION BY STATE $ 1,963,000

MAP 3 - Allocation of Total CETA Title II Funds For Public Service Employment - FY 1974 United States by County





LEGEND

TOTAL ALLOCATION (DOLLARS)

- ABOVE 1,000,000
- 500,000 - 1,000,000
- 300,000 - 500,000
- 100,000 - 300,000
- 1 - 100,000
- 0
- BALANCE OF STATE COUNTIES

U.S. DEPARTMENT OF LABOR
MANPOWER ADMINISTRATION

LAWRENCE BERKELEY LABORATORY
UNIVERSITY OF CALIFORNIA

RUN DATE 03/01/75

TABLE 3 - ALLOCATION OF TOTAL CETA TITLE II FUNDS FOR PUBLIC SERVICE EMPLOYMENT - FY 1974

U S DEPARTMENT OF LABOR
MANPOWER ADMINISTRATION

UNITED STATES BY COUNTY

LAWRENCE BERKELEY LABORATORY
UNIVERSITY OF CALIFORNIA

STATE AND COUNTY	TOTAL ALLOCATION (DOLLARS)	PERCENT OF NATION
UNITED STATES TOTAL	367,800,738	100.00
ALABAMA	1,339,610	.36
Autauga	0	.00
Baldwin	0	.00
Elmore	0	.00
Escambia	0	.00
Jefferson	421,471	.11
Madison	95,275	.03
Mobile	343,397	.09
Montgomery	0	.00
Tuscaloosa	0	.00
Balance Of Alabama	479,465	.13
ALASKA	2,615,641	.71
Anchorage Division	772,651	.21
Balance Of Alaska	1,842,989	.50
ARIZONA	1,002,288	.27
Maricopa	763,288	.21
Pima	98,500	.03
Balance Of Arizona	140,500	.04
ARKANSAS	971,574	.26
Faulkner	0	.00
Little River	37,100	.01
Lonoke	0	.00
Miller	81,700	.02
Pulaski	0	.00
Saline	0	.00
Balance Of Arkansas	852,774	.23
CALIFORNIA	64,769,428	17.61
Alameda	4,877,670	1.33
Butte	680,703	.19
Contra Costa	1,762,161	.48
Fresno	1,660,842	.45
Humboldt	730,005	.20
Imperial	388,857	.11
Kern	594,905	.16
Kings	176,483	.05
Los Angeles	20,086,364	5.46
Marin	485,600	.13
Merced	512,005	.14
Monterey	724,434	.20
Orange	1,769,800	.48
Riverside	1,353,925	.37
Sacramento	1,945,042	.53
San Bernardino	2,376,363	.65
San Diego	6,829,161	1.86
San Francisco	3,587,946	.98
San Joaquin	1,346,328	.37
San Luis Obispo	29,200	.01
San Mateo	485,200	.13
Santa Barbara	277,600	.08
Santa Clara	1,506,293	.41
Santa Cruz	741,589	.20
Solano	338,600	.09
Sonoma	1,044,513	.28
Stanislaus	1,704,636	.46
Tulare	616,200	.17
Ventura	644,600	.18
Yolo	279,409	.08
Balance Of California	5,212,978	1.42
COLORADO	858,978	.23
Adams	0	.00
Arapahoe	0	.00
Boulder	0	.00
Denver	406,500	.11
El Paso	107,300	.03
Jefferson	0	.00
Pueblo	140,100	.04
Balance Of Colorado	205,078	.06
CONNECTICUT	5,829,029	1.58
Fairfield	1,913,533	.52
Hartford	1,674,439	.46
New Haven	1,472,056	.40
Tolland	0	.00
Balance Of Connecticut	769,000	.21
DELAWARE	1,266,312	.34
Statewide	1,266,312	.34
DISTRICT OF COLUMBIA	2,258,500	.61
District Of Columbia	2,258,500	.61
FLORIDA	8,982,431	2.44
Alachua	0	.00
Baker	0	.00
Brevard	1,286,721	.35
Broward	478,436	.13
Dade	772,173	.21
De Soto	0	.00
Duval	245,000	.07
Escambia	102,300	.03
Gadsden	0	.00
Hardee	0	.00
Highlands	0	.00
Hillsborough	90,500	.02
Lee	56,900	.02
Leon	35,300	.01
Monroe	147,100	.04
Nassau	0	.00
Okeechobee	0	.00
Orange	427,100	.12
Palm Beach	734,300	.20
Pasco	222,300	.06
Pinellas	118,300	.03
Polk	890,300	.24
Sarasota	52,600	.01
Volusia	408,700	.11
Balance Of Florida	2,914,400	.79
GEORGIA	1,284,951	.35
Bibb	0	.00
Burke	80,300	.02
Chatham	0	.00
Chattahoochee	0	.00
Clay	0	.00
Cobb	0	.00
Columbia	0	.00
Crawford	0	.00
De Kalb	931,298	.25
Emanuel	0	.00
Fulton	0	.00
Glascock	0	.00
Harris	0	.00
Houston	0	.00
Jefferson	0	.00
Jenkins	0	.00
Jones	0	.00
Lincoln	0	.00
Mcduffie	0	.00
Monroe	0	.00
Muscogee	0	.00
Peach	0	.00
Quitman	0	.00
Randolph	0	.00
Richmond	0	.00
Screven	0	.00
Stewart	0	.00
Talbot	0	.00
Taliaferro	0	.00
Twiggs	0	.00
Warren	0	.00
Wilkes	0	.00
Balance Of Georgia	273,353	.07
HAWAII	2,817,732	.77
Honolulu	2,079,382	.57
Balance Of Hawaii	738,350	.20
IDAHO	1,996,800	.54
Statewide [C]	1,996,800	.54
ILLINOIS	9,268,145	2.52
Alexander	52,210	.01
Bond	34,800	.01
Boone	0	.00
Cass	0	.00
Champaign	0	.00
Cook	4,794,000	1.30
Du Page	0	.00
Ford	0	.00
Grundy	0	.00
Iroquois	0	.00
Johnson	52,210	.01
Kane	121,600	.03
Lake	175,800	.05
Lasalle	67,100	.02
Mchenry	0	.00
Macon	61,400	.02
Madison	787,203	.21
Massac	52,210	.01
Peoria	118,200	.03
Piatt	0	.00
Pulaski	52,210	.01
Rock Island	76,600	.02
St Clair	964,734	.26
Sangamon	58,500	.02
Tazewell	0	.00
Union	52,210	.01
Washington	0	.00
Will	229,900	.06
Winnebago	137,900	.04
Balance Of Illinois	1,379,359	.38
INDIANA	4,308,851	1.17
Adams	0	.00
Allen	0	.00
Blackford	0	.00
De Kalb	0	.00
Delaware	0	.00
Dubois	0	.00
Elkhart	467,200	.13
Gibson	0	.00
Lagrange	0	.00
Lake	500,300	.14
La Porte	0	.00
Madison	414,415	.11
Marion	1,525,872	.41
Noble	0	.00
Perry	0	.00
Pike	0	.00
Posey	0	.00
St Joseph	49,200	.01
Spencer	0	.00
Tippecanoe	0	.00
Vanderburgh	130,300	.04
Vigo	0	.00
Warrick	0	.00
Whitley	0	.00
Balance Of Indiana	1,221,564	.33
IOWA	577,200	.16
Black Hawk	0	.00
Boone	0	.00
Dallas	0	.00
Jasper	0	.00
Linn	0	.00
Madison	0	.00
Marion	0	.00
Polk	82,900	.02
Scott	0	.00
Story	0	.00
Warren	0	.00
Woodbury	0	.00
Balance Of Iowa	494,300	.13
KANSAS	355,800	.10
Butler	0	.00
Johnson	0	.00
Leavenworth	0	.00
Sedgwick	131,800	.04
Shawnee	134,800	.04
Wyandotte	89,200	.02
Balance Of Kansas	0	.00
KENTUCKY	3,726,153	1.01
Bourbon	0	.00
Clark	0	.00
Fayette	41,200	.01
Franklin	0	.00
Jefferson	317,400	.09
Jessamine	0	.00
Kenton	130,400	.04
Madison	0	.00

TABLE 3 - ALLOCATION OF TOTAL CETA TITLE II FUNDS FOR PUBLIC SERVICE EMPLOYMENT - FY 1974

U S DEPARTMENT OF LABOR
MANPOWER ADMINISTRATION

UNITED STATES BY COUNTY

LAWRENCE BERKELEY LABORATORY
UNIVERSITY OF CALIFORNIA

STATE AND COUNTY	TOTAL ALLOCATION (DOLLARS)	PERCENT OF NATION
Rural Cap	1,000,296	.27
Scott	0	.00
Woodford	0	.00
Balance Of Kentucky	2,236,856	.61
LOUISIANA	7,723,932	2.10
Caddo	173,849	.05
Calcasieu	338,469	.09
Cameron	126,400	.03
East Baton Rouge	613,880	.17
Jefferson	276,700	.08
Jefferson Davis	126,400	.03
Lafayette	76,300	.02
Orleans	2,008,803	.55
Ouachita	0	.00
Rapides	67,300	.02
Balance Of Louisiana	3,915,830	1.06
MAINE	2,771,077	.75
Balance Of Maine	2,771,077	.75
MARYLAND	2,642,539	.72
Allegany	301,297	.08
Anne Arundel	0	.00
Baltimore	491,300	.13
Carroll	0	.00
Frederick	67,700	.02
Garrett	203,400	.06
Harford	27,100	.01
Howard	0	.00
Montgomery	0	.00
Prince Georges	398,376	.11
Washington	244,000	.07
Balance Of Maryland	909,364	.25
MASSACHUSETTS	19,965,140	5.43
Bristol	1,038,068	.28
Hampden	1,489,377	.40
Middlesex	2,691,985	.73
Plymouth	407,983	.11
Suffolk	3,234,603	.88
Worcester	253,938	.07
Balance Of Massachusetts	10,849,185	2.95
MICHIGAN	42,391,110	11.53
Allegan	253,326	.07
Bay	624,883	.17
Berrien	816,042	.22
Calhoun	509,450	.14
Clinton	145,050	.04
Eaton	145,050	.04
Genesee	4,237,783	1.15
Hillsdale	319,700	.09
Ingham	1,161,832	.32
Ionia	391,776	.11
Jackson	119,900	.03
Kalamazoo	344,762	.09
Kent	1,797,777	.49
Lapeer	597,099	.16
Lenawee	603,186	.16
Macomb	1,943,238	.53
Monroe	273,600	.07
Montcalm	391,776	.11
Muskegon	664,813	.18
Oakland	3,637,669	.99
Oceana	100,650	.03
Ottawa	449,670	.12
Saginaw	1,153,416	.31
St Clair	1,007,012	.27
Shiawassee	964,425	.26
Washtenaw	1,072,560	.29
Wayne	13,818,883	3.76
Balance Of Michigan	4,845,776	1.32
MINNESOTA	10,128,462	2.75
Aitkin	127,023	.03
Anoka	47,600	.01
Carlton	127,023	.03
Carver	0	.00
Cook	127,023	.03
Dakota	0	.00
Hennepin	1,248,400	.34
Itasca	127,023	.03
Koochiching	127,023	.03
Lake	127,023	.03
Ramsey	718,100	.20
Rural Cap	1,558,570	.42
St Louis	970,324	.26
Scott	0	.00
Washington	30,300	.01
Balance Of Minnesota	4,793,023	1.30
MISSISSIPPI	850,000	.23
Hinds	148,000	.04
Rankin	0	.00
Balance Of Mississippi	702,000	.19
MISSOURI	2,201,656	.60
Cass	0	.00
Clay	0	.00
Franklin	143,200	.04
Greene	0	.00
Jackson	0	.00
Jefferson	260,900	.07
Platte	0	.00
Ray	0	.00
St Louis	1,482,956	.40
Balance Of Missouri	314,600	.09
MONTANA	1,860,200	.51
Balance Of Montana	1,860,200	.51
NEBRASKA	459,800	.13
Douglas	459,800	.13
Lancaster	0	.00
Sarpy	0	.00
Balance Of Nebraska	0	.00
NEVADA	2,049,406	.56
Clark	1,135,347	.31
Washoe	440,300	.12
Balance Of Nevada	473,759	.13
NEW HAMPSHIRE	311,234	.08
Hillsborough	0	.00
Rockingham	0	.00
Strafford	0	.00
Balance Of New Hampshire	311,234	.08
NEW JERSEY	18,457,128	5.02
Atlantic	888,419	.24
Bergen	602,478	.16
Burlington	779,100	.21
Camden	1,356,700	.37
Cumberland	702,005	.19
Essex	2,992,739	.81
Gloucester	477,600	.13
Hudson	3,033,866	.82
Mercer	465,709	.13
Middlesex	1,217,800	.33
Monmouth	1,157,100	.31
Morris	169,900	.05
Ocean	777,124	.21
Passaic	2,295,540	.62
Somerset	0	.00
Union	521,900	.14
Balance Of New Jersey	1,019,144	.28
NEW MEXICO	1,858,594	.51
Bernalillo	528,114	.14
Balance Of New Mexico	1,330,479	.36
NEW YORK	37,571,226	10.22
Albany	138,800	.04
Allegany	126,000	.03
Broome	152,400	.04
Cattaraugus	126,000	.03
Chautauqua	126,000	.03
Chemung	223,300	.06
Dutchess	73,400	.02
Erie	4,635,282	1.26
Monroe	395,573	.11
Nassau	262,000	.07
New York	19,540,226	5.31
Niagara	1,250,575	.34
Oneida	621,494	.17
Onondaga	273,900	.07
Orange	541,800	.15
Oswego	326,605	.09
Putnam	51,050	.01
Rensselaer	141,400	.04
Rockland	96,200	.03
St Lawrence	416,117	.11
Saratoga	118,700	.03
Schenectady	125,100	.03
Suffolk	1,229,700	.33
Ulster	355,200	.10
Westchester	648,050	.18
Balance Of New York	5,576,351	1.52
NORTH CAROLINA	113,200	.03
Buncombe	0	.00
Chatham	0	.00
Cumberland	28,200	.01
Durham	0	.00
Forsyth	85,000	.02
Gaston	0	.00
Guilford	0	.00
Johnston	0	.00
Lee	0	.00
Mecklenburg	0	.00
Onslow	0	.00
Orange	0	.00
Wake	0	.00
Balance Of North Carolina	0	.00
NORTH DAKOTA	1,368,400	.37
Balance Of North Dakota	1,368,400	.37
OHIO	12,027,601	3.27
Ashtabula	0	.00
Butler	514,000	.14
Clark	209,820	.06
Columbiana	0	.00
Cuyahoga	33,321,148	9.06
Delaware	0	.00
Franklin	428,100	.12
Geauga	0	.00
Greene	31,800	.01
Hamilton	1,334,974	.36
Lake	0	.00
Licking	0	.00
Lorain	173,400	.05
Lucas	908,200	.25
Mahoning	476,300	.13
Medina	32,600	.01
Montgomery	886,157	.24
Portage	192,200	.05
Preble	0	.00
Stark	207,500	.06
Summit	268,500	.07
Trumbull	243,800	.07
Wayne	0	.00
Wood	58,200	.02
Balance Of Ohio	2,741,000	.75
OKLAHOMA	1,510,787	.41
Canadian	0	.00
Cleveland	0	.00
Comanche	83,000	.02
Creek	27,700	.01
Logan	0	.00
Oklahoma	257,533	.07
Osage	0	.00
Tulsa	195,500	.05
Balance Of Oklahoma	947,054	.26
OREGON	4,675,185	1.27
Clackamas	482,698	.13
Lane	686,349	.19
Marion	326,675	.09
Multnomah	0	.00
Polk	467,422	.13
Washington	0	.00
Yamhill	167,748	.05
Balance Of Oregon	2,544,293	.69
PENNSYLVANIA	20,414,396	5.55
Allegheny	2,639,440	.72

TABLE 3 - ALLOCATION OF TOTAL CETA TITLE II FUNDS FOR PUBLIC SERVICE EMPLOYMENT - FY 1974

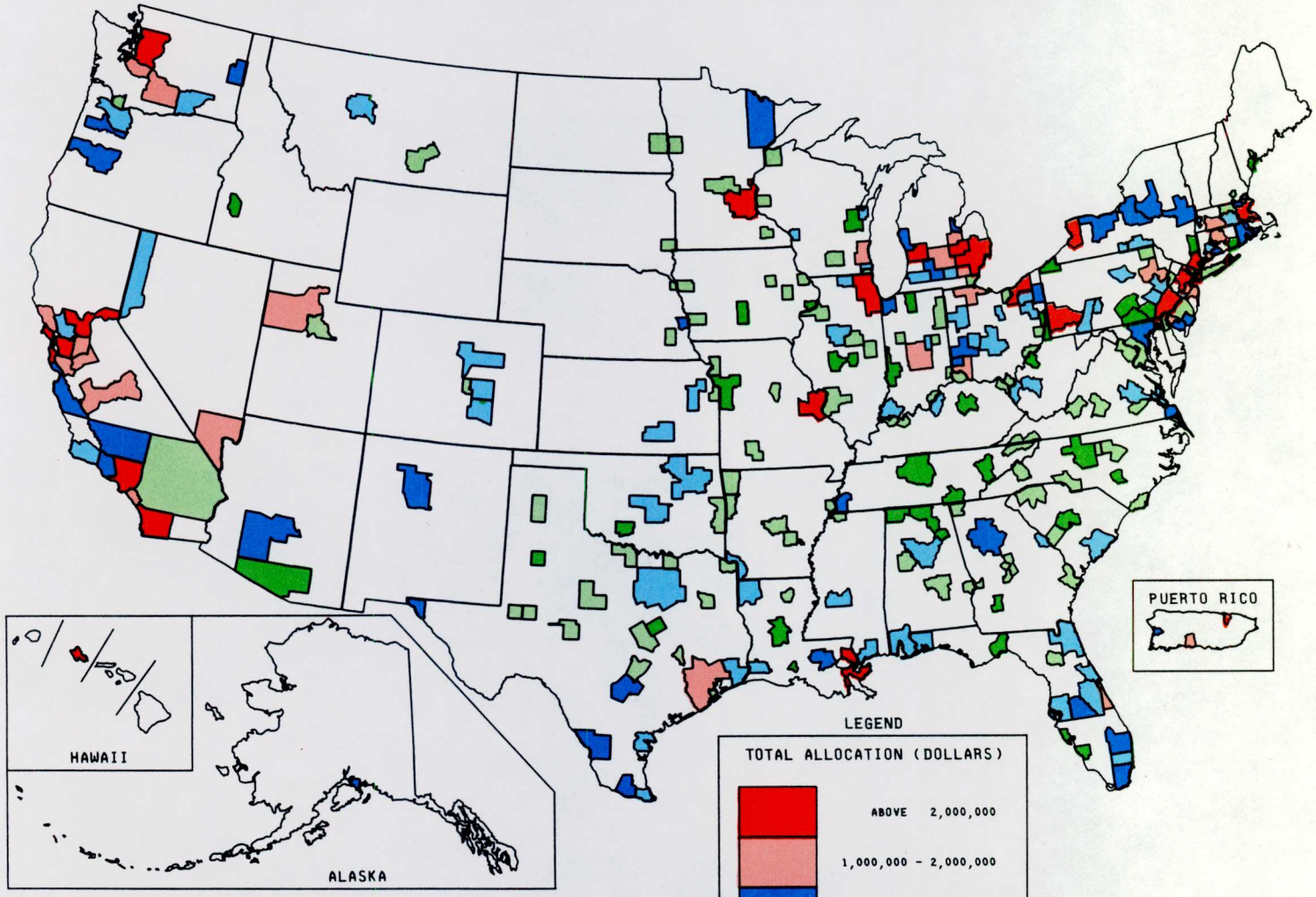
U S DEPARTMENT OF LABOR
MANPOWER ADMINISTRATION

UNITED STATES BY COUNTY

LAWRENCE BERKELEY LABORATORY
UNIVERSITY OF CALIFORNIA

STATE AND COUNTY	TOTAL ALLOCATION (DOLLARS)	PERCENT OF NATION
Armstrong	125,024	.03
Beaver	194,400	.05
Bedford	292,334	.08
Berks	110,130	.03
Blair	159,840	.04
Bucks	420,636	.11
Butler	126,000	.03
Cambria	109,145	.03
Carbon	81,500	.02
Chester	0	.00
Clarion	95,900	.03
Clinton	384,432	.10
Crawford	210,300	.06
Cumberland	0	.00
Dauphin	41,200	.01
Delaware	505,666	.14
Erie	37,600	.01
Fayette	528,009	.14
Forest	0	.00
Franklin	0	.00
Fulton	292,334	.08
Huntingdon	292,334	.08
Indiana	71,300	.02
Lackawanna	772,497	.21
Lancaster	76,979	.02
Lawrence	347,046	.09
Lebanon	0	.00
Lehigh	0	.00
Luzerne	896,221	.24
Lycoming	111,277	.03
Mercer	365,847	.10
Montgomery	327,600	.09
Northampton	0	.00
Perry	0	.00
Philadelphia	6,327,164	1.72
Schuylkill	612,966	.17
Somerset	248,701	.07
Venango	0	.00
Warren	0	.00
Washington	337,365	.09
Westmoreland	1,183,483	.32
York	40,000	.01
Balance Of Pennsylvania	2,049,722	.56
RHODE ISLAND	2,688,691	.73
Providence	649,804	.18
Balance Of Rhode Island	2,038,887	.55
SOUTH CAROLINA	1,200,383	.33
Statewide [C]	1,200,383	.33
SOUTH DAKOTA	0	.00
Balance Of South Dakota	0	.00
TENNESSEE	2,060,732	.56
Davidson	67,200	.02
Hamilton	0	.00
Knox	33,700	.01
Shelby	625,500	.17
Sullivan	0	.00
Balance Of Tennessee	1,334,332	.36
TEXAS	6,424,732	1.75
Aransas	0	.00
Archer	0	.00
Armstrong	0	.00
Atascosa	0	.00
Bandera	0	.00
Bastrop	0	.00
Baylor	0	.00
Bee	0	.00
Bell	0	.00
Bexar	726,000	.20
Bosque	0	.00
Bowie	202,558	.06
Briscoe	0	.00
Brooks	0	.00
Burnet	0	.00
Caldwell	0	.00
Cameron	411,902	.11
Carson	0	.00
Castro	0	.00
Childress	0	.00
Clay	0	.00
Collingsworth	0	.00
Comal	0	.00
Coryell	0	.00
Cottle	0	.00
Dallas	47,600	.01
Deaf Smith	0	.00
Donley	0	.00
Duval	0	.00
El Paso	600,300	.16
Falls	0	.00
Fayette	0	.00
Foard	0	.00
Freestone	0	.00
Frio	0	.00
Galveston	0	.00
Gillespie	0	.00
Gray	0	.00
Guadalupe	0	.00
Hall	0	.00
Hamilton	0	.00
Hansford	0	.00
Hardeman	0	.00
Hardin	0	.00
Harris	1,146,500	.31
Hartley	0	.00
Hays	0	.00
Hemphill	0	.00
Hidalgo	813,172	.22
Hill	0	.00
Hutchinson	0	.00
Jack	0	.00
Jefferson	308,500	.08
Jim Wells	0	.00
Karnes	0	.00
Kendall	0	.00
Kenedy	0	.00
Kerr	0	.00
Kleberg	0	.00
Lampasas	0	.00
Lee	0	.00
Limestone	0	.00
Lipscomb	0	.00
Live Oak	0	.00
Llano	0	.00
Mclennan	63,500	.02
Mcmullen	0	.00
Medina	0	.00
Milam	0	.00
Mills	0	.00
Montague	0	.00
Nueces	384,000	.10
Oldham	0	.00
Orange	0	.00
Parmer	0	.00
Potter	0	.00
Randall	0	.00
Refugio	0	.00
Roberts	0	.00
San Patricio	0	.00
San Saba	0	.00
Swisher	0	.00
Tarrant	186,600	.05
Travis	0	.00
Webb	594,858	.16
Wheeler	0	.00
Wichita	0	.00
Wilbarger	0	.00
Willacy	25,200	.01
Williamson	0	.00
Wilson	0	.00
Young	0	.00
Balance Of Texas	914,039	.25
UTAH	1,854,100	.50
Statewide [C]	1,854,100	.50
VERMONT	1,552,279	.42
Balance Of Vermont	1,552,279	.42
VIRGINIA	3,329,672	.91
Alleghany	0	.00
Arlington	73,400	.02
Botetourt	0	.00
Chesterfield	0	.00
Craig	0	.00
Franklin	0	.00
Goochland	0	.00
Hanover	0	.00
Henrico	0	.00
Isle Of Wright	0	.00
James City	0	.00
New Kent	0	.00
Powhatan	0	.00
Prince William	0	.00
Roanoke	0	.00
Southampton	0	.00
York	0	.00
Alexandria [Ind City]	0	.00
Chesapeake [Ind City]	53,300	.01
Clifton Forge [Ind City]	0	.00
Covington [Ind City]	0	.00
Fairfax [Ind City]	0	.00
Hampton [Ind City]	91,500	.02
Newport News [Ind City]	228,004	.06
Norfolk [Ind City]	485,810	.13
Portsmouth [Ind City]	244,658	.07
Richmond [Ind City]	246,282	.07
Roanoke [Ind City]	0	.00
Salem [Ind City]	0	.00
Suffolk [Ind City]	126,900	.03
Virginia Beach [Ind City]	0	.00
Williamsburg [Ind City]	0	.00
Balance Of Virginia	1,779,814	.48
WASHINGTON	14,097,201	3.83
Clark	0	.00
King	3,791,618	1.03
Kitsap	421,756	.11
Pierce	1,562,304	.42
Snohomish	982,244	.27
Spokane	997,294	.27
Yakima	1,020,515	.28
Balance Of Washington	5,321,565	1.45
WEST VIRGINIA	3,261,649	.89
Statewide [C]	3,261,649	.89
WISCONSIN	6,926,912	1.88
Dane	0	.00
Fond Du Lac	0	.00
Kenosha	0	.00
Milwaukee	1,713,300	.47
Outagamie	0	.00
Ozaukee	0	.00
Racine	108,792	.03
Rock	555,300	.15
Walworth	0	.00
Washington	0	.00
Waukesha	0	.00
Winnebago	53,000	.01
Balance Of Wisconsin	4,496,520	1.22
WYOMING	0	.00
Balance Of Wyoming	0	.00
PUERTO RICO	16,376,891	4.45
Mayaguez Municipio	622,156	.17
Ponce Municipio	1,475,106	.40
San Juan Municipio	3,601,929	.98
Balance Of Puerto Rico	10,677,698	2.90
A.SAMOA-GUAM-TRUST TERRITORIES	345,300	.09
VIRGIN ISLANDS	246,700	.07
INDIAN RESERVATIONS	1,855,000	.50

MAP 4 - Allocation of Total CETA Title II Funds For Public Service Employment - FY 1974 United States by Standard Metropolitan Statistical Area



MEDIAN SMSA ALLOCATION
$ 246,300

U.S. DEPARTMENT OF LABOR
MANPOWER ADMINISTRATION

LAWRENCE BERKELEY LABORATORY
UNIVERSITY OF CALIFORNIA

TABLE 4 - ALLOCATION OF TOTAL CETA TITLE II FUNDS FOR PUBLIC SERVICE EMPLOYMENT - FY 1974

U.S. DEPARTMENT OF LABOR
MANPOWER ADMINISTRATION

UNITED STATES BY STANDARD METROPOLITAN STATISTICAL AREA

LAWRENCE BERKELEY LABORATORY
UNIVERSITY OF CALIFORNIA

SMSA	TOTAL ALLOCATION (DOLLARS)	PERCENT OF NATION
UNITED STATES SMSA TOTAL	251,125,601	100.00
New York, Ny-Nj	20,938,004	8.34
Los Angeles-Long Beach,Ca.	20,086,364	8.00
Chicago,Ill.	5,321,300	2.12
Philadelphia,Pa-Nj.	10,194,466	4.06
Detroit, Mich.	20,976,401	8.35
San Francisco-Oakland, Ca.	11,198,577	4.46
Washington,Dc-Md-Va.	2,730,276	1.09
Boston,Mass	5,980,673	2.38
Nassau- Suffolk Ny.	1,491,700	.59
St.Louis Mo-Ill.	3,871,993	1.54
Pittsburg,Pa.	4,354,688	1.73
Dallas-Fort Worth,Tex.	234,200	.09
Baltimore, Md.	518,400	.21
Cleveland,Ohio	3,353,748	1.34
Newark, Nj.	3,684,539	1.47
Houston Tex.	1,146,500	.46
Minneapolis-St Paul,Minn-Wis.	2,044,400	.81
Atlanta Ga.	931,298	.37
Seattle Everett Wash.	4,773,862	1.90
Anaheim-St Ana-Garden Grove,Ca	1,769,800	.70
Milwaukee,Wis.	1,713,300	.68
Cincinnati, Ohio-Ky-Ind.	1,630,224	.65
San Diego, Ca.	6,829,161	2.72
Buffalo, Ny.	5,885,857	2.34
Kansas City,Mo-Kansas	89,200	.04
Miami,Fla.	772,173	.31
Denver-Boulder, Colo.	406,500	.16
Riverside-San Bern-Ontario,Ca.	3,730,288	1.49
Indianapolis,Ind.	1,525,872	.61
Tampa-St Petersburg,Fla.	431,100	.17
San Jose,Ca.	1,506,293	.60
New Orleans, La.	2,477,305	.99
Columbus, Ohio	475,900	.19
Portland, Oreg-Wash.	482,698	.19
Phoenix, Ariz.	763,288	.30
Rochester,Ny.	672,573	.27
Providence-Warwk-Pwtkt,Ri-Mass	649,804	.26
San Antonio,Tex.	726,000	.29
Louisville, Ky-Ind.	317,400	.13
Dayton,Ohio	934,307	.37
	0	.00
Memphis,Tenn-Ark-Miss.	625,500	.25
Sacramento,Ca.	2,470,451	.98
Albany-Schenectady-Troy,Ny.	716,154	.29
Birmingham,Ala.	451,671	.18
Toledo,Ohio-Mich.	1,240,000	.49
Greensboro-Win Sal-High Pt,Nc.	85,000	.03
Hartford,Conn.	1,044,600	.42
Salt Lake City-Ogden,Utah.	1,854,100	.74
Nashville-Davidson,Tenn.	67,200	.03
Oklahoma City, Okla.	257,533	.10
Norfolk-Va Beach-Prtsmth,Va-Nc	783,768	.31
Akron, Ohio	460,700	.18
Syracuse, Ny	713,705	.28
Gary-Hammond-East Chicago,Ind.	500,300	.20
Honolulu,Hawaii	2,079,382	.83
Northeast Pennsylvania	1,668,718	.66
Jacksonville, Fla.	245,000	.10
Fort Lauderdale-Hollywood,Fla.	478,436	.19
Jersey City, Nj.	3,033,866	1.21
Allentown-Bethlhm-Easton,Pa-Nj	132,000	.05
N Brunswick-Prth Am-Syrvlle,Nj	1,217,800	.48
Charlotte-Gastonia,Nc.	0	.00
Tulsa,Okla.	282,600	.11
Richmond,Va.	246,282	.10
Springfield-Chic-Hol,Mass-Conn	1,282,900	.51
Omaha, Nebr-Iowa	989,400	.39
Grand Rapids,Mich.	2,247,447	.89
Youngstown-Warren,Ohio	720,100	.29
Flint,Mich.	5,202,208	2.07
Wilmington,Del- Nj Md.	1,256,312	.50
Greenville-Spartanburg,Sc.	0	.00
Paterson-Clifton-Passaic,Nj.	2,295,540	.91
Long Branch-Asbury Park, Nj	1,157,100	.46
Orlando,Fla.	427,100	.17
Lansing-East Lansing,Mich.	1,843,708	.73
Raleigh-Durham,Nc.	0	.00
New Haven-West Haven,Conn.	685,317	.27
Fresno, Ca.	1,660,842	.66
Tacoma, Wash.	1,562,304	.62
Harrisburg Pa.	41,200	.02
Knoxville,Tenn.	66,600	.03
Bridgeport,Conn.	1,346,433	.54
Canton,Ohio	207,500	.08
Wichita,Kans.	131,800	.05
Mobile,Ala.	343,397	.14
Oxnard-Simi Valley-Ventura,Ca.	644,600	.26
Baton Rouge,La.	613,880	.24
Worcester,Mass.	253,938	.10
Chattanooga,Tenn-Ga.	29,100	.01
Davenport-Rock Isl-Mol,In-Ill.	76,600	.03
Fort Wayne,Ind.	0	.00
El Paso, Tex.	600,300	.24
Tucson, Ariz.	98,500	.04
West Palm Beach-Boca Raton,Fla	734,300	.29
Beaumont-Port Arthur-Orange,Tx	308,500	.12
Peoria,Ill.	118,200	.05
Utica-Rome,Ny.	740,394	.29
Charleston,Sc.	344,800	.14
Shreveport,La.	173,849	.07
Albuquerque,N.Mex.	528,114	.21
Newport News-Hampton,Va.	319,504	.13
York,Pa.	40,000	.02
Bakersfield, Ca.	594,905	.24
Little Rock-No Little Rock,Ark	0	.00
Austin,Tex.	0	.00
Columbia,Sc.	46,900	.02
Lancaster,Pa.	76,979	.03
Des Moines,Iowa	82,900	.03
Trenton,Nj.	465,709	.19
Binghamton Ny-Pa.	152,400	.06
Reading Pa.	110,130	.04
Madison,Wis.	0	.00
Stockton,Ca.	1,346,328	.54
Spokane,Wash.	997,294	.40
Huntington-Ashland,W.Va-Ky-Oh	424,581	.17
Evansville,Ind- Ky.	170,500	.07
Corpus Christi,Tex.	384,000	.15
Huntsville,Ala	95,275	.04
South Bend- Ind.	49,200	.02
Appleton-Oshkosh,Wis.	53,000	.02
Augusta,Ga-Sc.	106,700	.04
Las Vegas Nev.	1,135,347	.45
Rockford,Ill.	137,900	.05
Lexington-Fayette,Ky	41,200	.02
Duluth-Superior,Minn-Wis.	970,324	.39
Sta Barbara-St Maria-Lompoc,Ca	277,600	.11
Erie,Pa.	37,600	.01
Johnstown Pa.	357,846	.14
Jackson Miss.	148,000	.06
Laurence-Haverhill,Mass-Nh.	275,106	.11
Kalamazoo-Portage,Mich.	344,762	.14
Charleston,W.Va.	291,819	.12
Lorain-Elyria,Ohio	173,400	.07
Vallejo-Fairfield-Napa,Ca.	379,400	.15
Shlinas-Seaside-Monterey,Ca.	724,434	.29
Pensacola, Fla.	102,300	.04
New London-Norwich Conn-Ri.	31,000	.01
Kingsport-Bristol,Tenn-Va.	0	.00
Colorado Springs,Colo.	107,300	.04
Columbus,Ga-Ala.	0	.00
Ann Arbor, Mich.	1,072,560	.43
Melbourne-Titusville-Cocoa,Fla	1,286,721	.51
Lakeland-Winter Haven,Fla.	890,300	.35
Macon, Ga.	0	.00
Hamilton-Middletown,Ohio	514,000	.20
Montgomery,Ala.	0	.00
Poughkeepsie,Ny.	73,400	.03
Saginaw Mich.	1,153,416	.46
Lowell,Mass-Nh.	591,800	.24
Waterbury,Conn.	320,100	.13
Eugene-Springfield,Oreg.	686,349	.27
Fayetteville,Nc.	28,200	.01
Lima,Ohio	191,400	.08
Savannah,Ga.	0	.00
Stanford,Conn.	290,500	.12
Santa Rosa,Ca.	1,044,513	.42
Roanoke,Va.	0	.00
Modesto,Ca.	1,704,636	.68
Springfield,Ohio	209,820	.08
Salem,Oreg.	794,097	.32
Wheeling,W.Va-Ohio	37,533	.01
Mcallen Pharr-Edinburg,Tex.	813,172	.32
Topeka,Kans.	134,800	.05
Battle Creek,Mich.	509,450	.20
Lubbock,Tex.	27,200	.01
Muskegon-Muskegon Heights,Mich	765,463	.30
Terre Haute,Ind.	43,900	.02
Atlantic City,Nj.	888,419	.35
Springfield,Ill.	58,500	.02
Racine,Wis.	108,792	.04
Portland,Maine	57,500	.02
Galveston-Texas City,Tex.	0	.00
Fall River,Mass-Ri.	343,700	.14
Daytona Beach,Fla.	408,700	.16
Springfield,Mo.	0	.00
Lincoln,Nebr.	0	.00
Steubenville-Weirton,Ohio-W.Va	68,000	.03
Champaign-Urbana-Rantoul,Ill	0	.00
Cedar Rapids,Iowa	0	.00
New Bedford,Mass	549,400	.22
Asheville,Nc.	0	.00
Fort Smith,Ark-Okla.	0	.00
Biloxi-Gulfport,Miss	108,100	.04
Killeen-Temple,Tex.	0	.00
Green Bay,Wis.	143,705	.06
Brockton Mass.	407,983	.16
Parkersburg-Marietta,W.Va-Ohio	37,533	.01
Waco,Tex.	63,500	.03
Lake Charles,La.	338,469	.13
New Britain,Conn.	269,112	.11
Yakima,Wash.	1,020,515	.41
Amarillo Tex	0	.00
Jackson,Mich.	119,900	.05
Brownsville-Harl-San Benito,Tx	411,902	.16
Anderson,Ind	414,415	.17
Provo-Orem,Utah.	0	.00
Altoona, Pa.	159,840	.06
St.Cloud,Minn.	0	.00
Lyncaburg Va.	0	.00
Waterloo-Cedar Falls,Iowa	0	.00
Manchester,Nh.	0	.00
Alexandria,La	67,300	.03
Mansfield,Ohio	279,350	.11
Wichita Falls,Tex.	0	.00
Muncie,Ind	0	.00
Petersburg-Col Hgts-Hpwell,Va	0	.00
Fayetteville-Springdale,Ark.	0	.00
Norwalk,Conn	127,000	.05
Norwalk,Conn	127,000	.05
Decatur,Ill.	61,400	.02
Anchorage,Alaska	772,651	.31
Santa Cruz,Calif.	741,589	.30
Abilene Tex	0	.00
Vineland-Millvlle-Bridgeton,Nj	702,005	.28
Reno,Nev	440,300	.18
Sarasota,Fla.	52,600	.02
Fargo-Moorhead,N Dak-Minn.	0	.00
Clarksville-Hopkinsville,Tn-Ky	0	.00
Pueblo,Colo.	140,100	.06
Kenosha, Wis.	0	.00

MEDIAN ALLOCATION BY SMSA $ 246,300

MEAN ALLOCATION BY SMSA $ 930,100

TABLE 4 - ALLOCATION OF TOTAL CETA TITLE II FUNDS FOR PUBLIC SERVICE EMPLOYMENT - FY 1974

U.S. DEPARTMENT OF LABOR
MANPOWER ADMINISTRATION

UNITED STATES BY STANDARD METROPOLITAN STATISTICAL AREA

LAWRENCE BERKELEY LABORATORY
UNIVERSITY OF CALIFORNIA

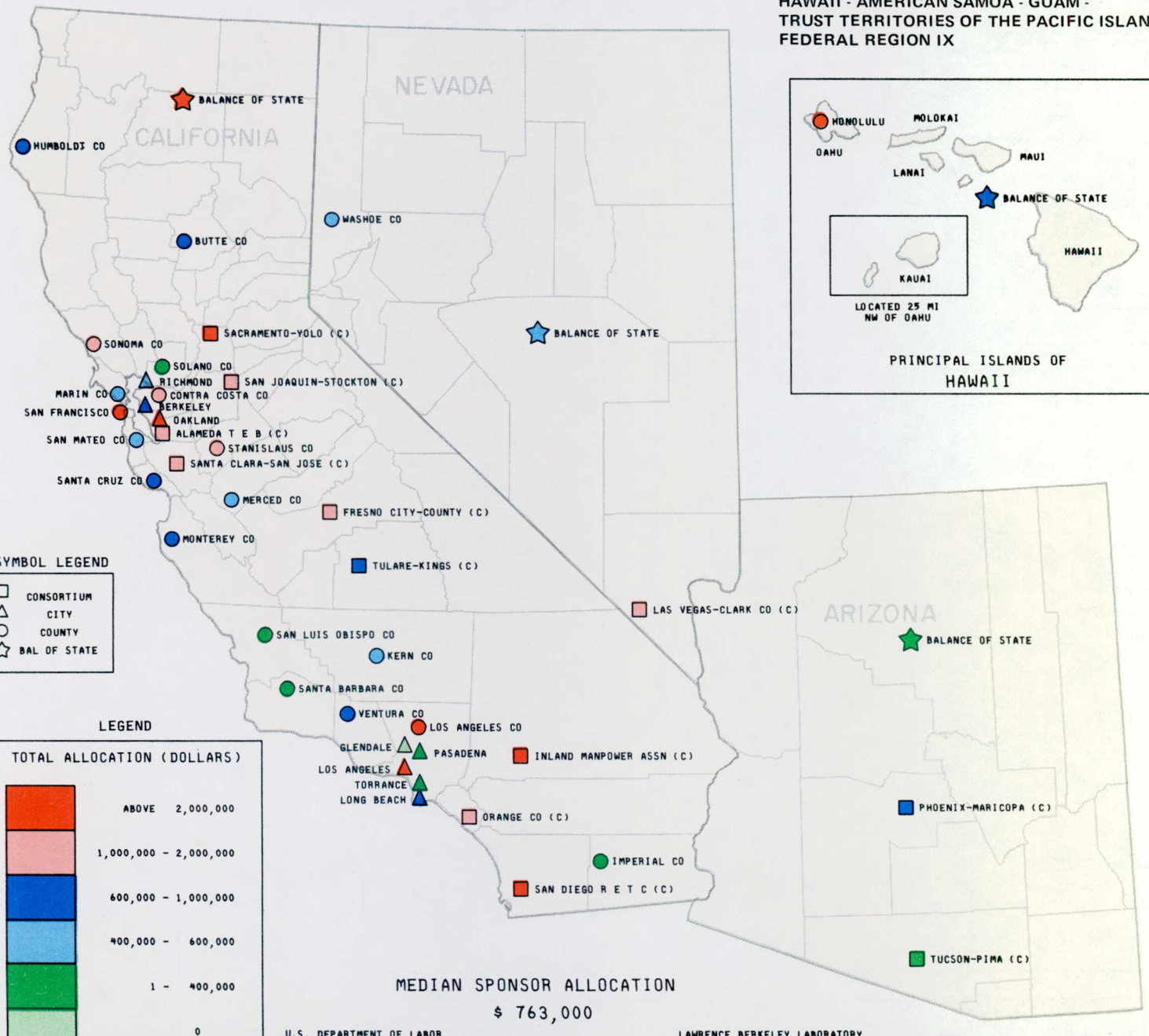
SMSA	TOTAL ALLOCATION (DOLLARS)	PERCENT OF NATION
Florence,Ala	40,400	.02
Bay City,Mich.	624,883	.25
Sioux City,Iowa-Nebr.	0	.00
Tuscaloosa,Ala	0	.00
Danbury,Conn	149,600	.06
Monroe,La	0	.00
Williamsport,Pa	111,277	.04
Texarkana,Tex-Texarkana,Ark	321,358	.13
Boise City,Idaho	48,100	.02
Lafayette,La	76,300	.03
Lafayette-West Lafayette,In	0	.00
Tallahassee,Fla.	35,300	.01
Lawton,Okla.	83,000	.03
Wilmington,Nc	0	.00
Fort Myers,Fla.	56,900	.02
Gainesville Fla.	0	.00
Bloomington-Normal,Ill.	0	.00
Anniston,Ala	0	.00
Elmira Ny.	223,300	.09
St.Joseph.Mo.	0	.00
Fitchburg-Leominster,Mass.	0	.00
Tyler,Tex.	0	.00
Pittsfield,Mass.	188,700	.08
Albany,Ga	90,000	.04
Burlington Nc.	0	.00
Sioux Falls,S.Dak.	0	.00
Gadsden,Ala.	75,216	.03
Richland-Kennewick,Wash.	275,900	.11
Odessa,Tex.	0	.00
Dubuque,Iowa	0	.00
Billings,Mont.	0	.00
Nashua,Nh.	0	.00
Pine Bluff,Ark	0	.00
Rochester,Minn.	0	.00
Sherman-Denison Tex	0	.00
Great Falls, Mont.	181,200	.07
Columbia Mo.	0	.00
La Crosse Wis.	150,100	.06
Owensboro Ky.	0	.00
Laredo,Tex	594,858	.24
Lewiston-Auburn,Maine	0	.00
San Angelo Tex.	0	.00
Bristol Conn.	198,500	.08
Midland,Tex	0	.00
Bryan-College Station,Tex.	0	.00
Meriden, Conn.	313,400	.12
PUERTO RICO		
San Juan	3,601,929	1.43
Ponce	1,475,106	.59
Caguas	856,384	.34
Mayaguez	622,156	.25

MEDIAN ALLOCATION BY SMSA $ 246,300

MEAN ALLOCATION BY SMSA $ 930,100

MAP 13 - Allocation of Total CETA Title II Funds For Public Service Employment - FY 1974 Region IX by Prime Sponsor

ARIZONA - CALIFORNIA - NEVADA -
HAWAII - AMERICAN SAMOA - GUAM -
TRUST TERRITORIES OF THE PACIFIC ISLANDS
FEDERAL REGION IX



MEDIAN SPONSOR ALLOCATION
$ 763,000

U.S. DEPARTMENT OF LABOR
MANPOWER ADMINISTRATION

LAWRENCE BERKELEY LABORATORY
UNIVERSITY OF CALIFORNIA

TABLE 13 - ALLOCATION OF TOTAL CETA TITLE II FUNDS FOR PUBLIC SERVICE EMPLOYMENT - FY 1974

RUN DATE 12/13/74

U.S. DEPARTMENT OF LABOR
MANPOWER ADMINISTRATION

REGION IX BY PRIME SPONSOR

LAWRENCE BERKELEY LABORATORY
UNIVERSITY OF CALIFORNIA

PRIME SPONSOR	TOTAL ALLOCATION (DOLLARS)	PERCENT OF REGION
REGION IX	70,984,153	100.00
ARIZONA	1,002,288	1.41
Phoenix-Maricopa [C]	763,288	1.08
Tucson-Pima [C]	98,500	.14
Balance Of State	140,500	.20
CALIFORNIA	64,769,428	91.24
Alameda T E B [C]	1,752,888	2.47
Fresno City-County [C]	1,660,842	2.34
Inland Manpower Assn [C]	3,730,289	5.26
Orange Co [C]	1,769,800	2.49
Sacramento-Yolo [C]	2,224,452	3.13
San Diego R E T C [C]	6,829,161	9.62
San Joaquin-Stockton [C]	1,346,328	1.90
Santa Clara-San Jose [C]	1,506,293	2.12
Tulare-Kings [C]	792,683	1.12
Berkeley	891,643	1.26
Butte Co	680,703	.96
Contra Costa Co	1,332,931	1.88
Glendale	0	.00
Humboldt Co	730,005	1.03
Imperial Co	388,857	.55
Kern Co	594,905	.84
Long Beach	974,187	1.37
Los Angeles	10,324,021	14.54
Los Angeles Co	8,549,332	12.04
Marin Co	485,600	.68
Merced Co	512,005	.72
Monterey Co	724,434	1.02
Oakland	2,233,139	3.15
Pasadena	180,824	.25
Richmond	429,230	.60
San Francisco	3,587,946	5.05
San Luis Obispo Co	29,200	.04
San Mateo Co	485,200	.68
Santa Barbara Co	277,600	.39
Santa Cruz Co	741,589	1.04
Solano Co	338,600	.48
Sonoma Co	1,044,513	1.47
Stanislaus Co	1,704,636	2.40
Torrance	58,000	.08
Ventura Co	644,600	.91
Balance Of State	5,212,978	7.34
HAWAII	2,817,732	3.97
Honolulu	2,079,382	2.93
Balance Of State	738,350	1.04
NEVADA	2,049,406	2.89
Las Vegas-Clark Co [C]	1,135,347	1.60
Washoe Co	440,300	.62
Balance Of State	473,759	.67
A.SAMOA-GUAM-TRUST TERRITORIES	345,300	.49

MEDIAN ALLOCATION BY PRIME SPONSOR	$ 763,000
MEAN ALLOCATION BY PRIME SPONSOR	$ 1,571,000

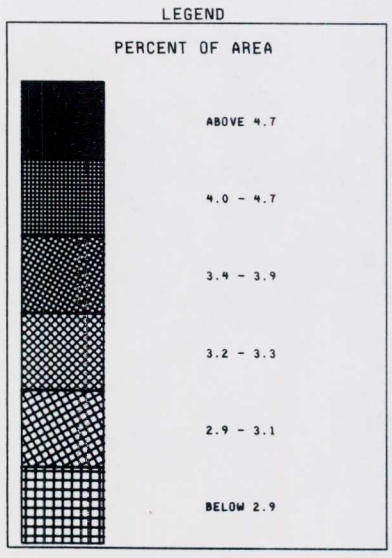
MAP 83 -- EMPLOYMENT IN THE PUBLIC ADMINISTRATION INDUSTRY

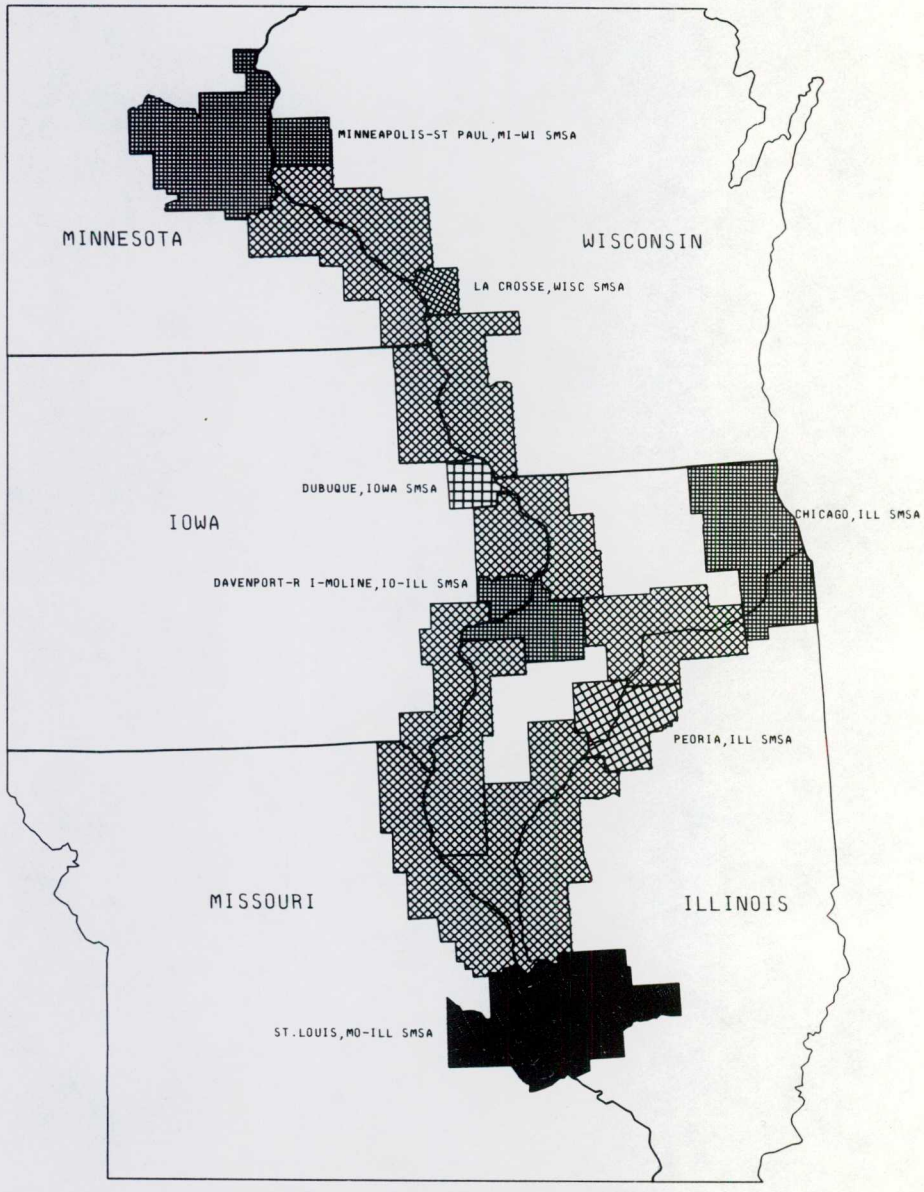
SOCIO-ECONOMIC STUDY

LOCK AND DAM 26

UPPER MISSISSIPPI RIVER
AND
ILLINOIS RIVER

1970 CENSUS OF POPULATION





ST.LOUIS, MISSOURI DISTRICT
U.S. ARMY CORPS OF ENGINEERS

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