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Authors

Austin, Donald N.
Kranz, Suzanne G.
Quong, Carl.

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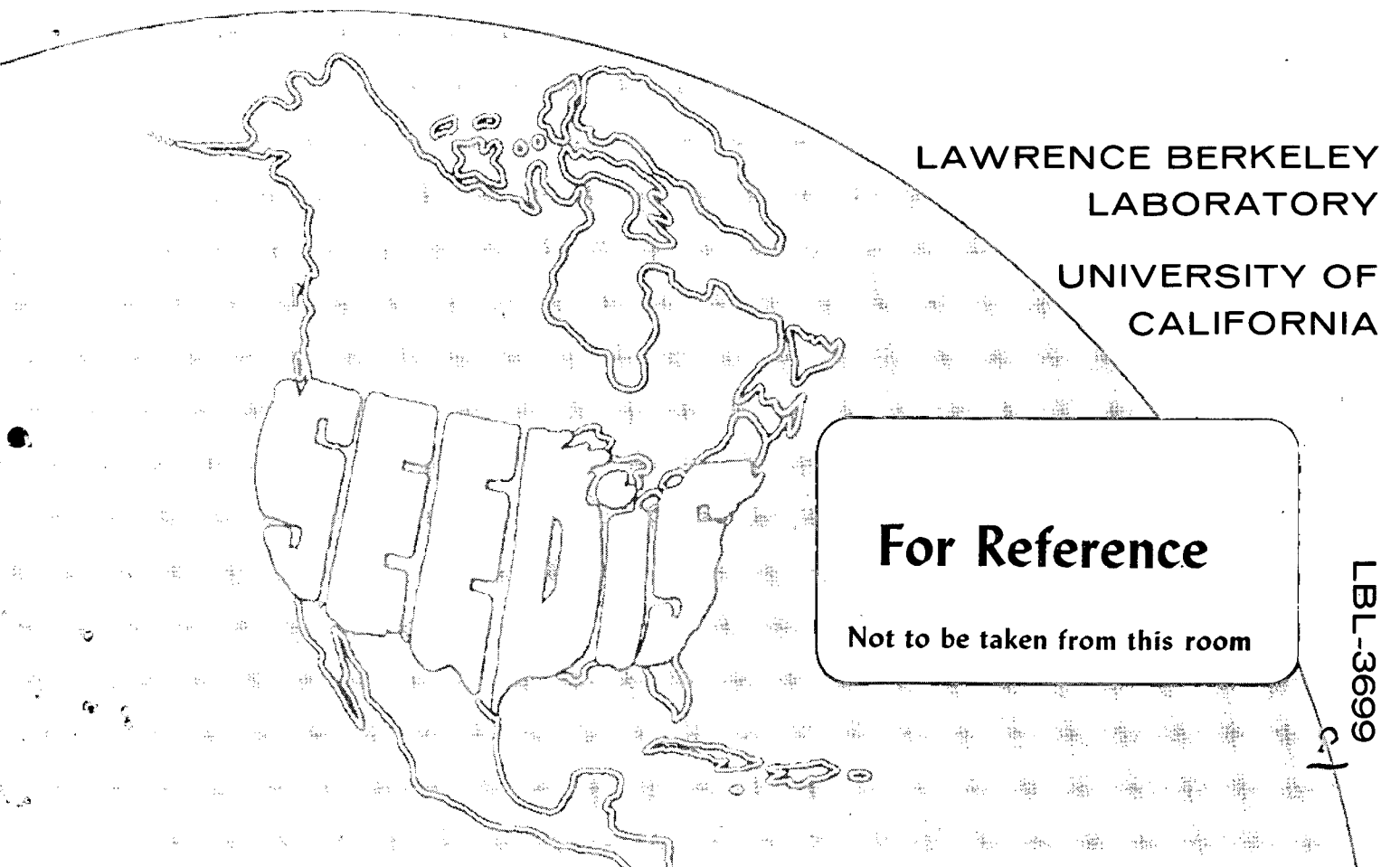
An Overview of the LBL

SOCIO- ECONOMIC- ENVIRONMENTAL- DEMOGRAPHIC INFORMATION SYSTEM

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**AN OVERVIEW OF THE
LBL SOCIO-ECONOMIC-ENVIRONMENTAL-DEMOGRAPHIC
INFORMATION SYSTEM**

(SEEDIS)

DONALD M. AUSTIN, SUZANNE G. KRANZ, AND CARL QUONG

**MATHEMATICS AND COMPUTING GROUP
LAWRENCE BERKELEY LABORATORY
UNIVERSITY OF CALIFORNIA
BERKELEY, CALIFORNIA 94720**

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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THE LBL SOCIO-ECONOMIC-ENVIRONMENTAL-DEMOGRAPHIC INFORMATION SYSTEM

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 micro-film 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 generalized 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.

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APPENDIX A.-CURRENT DATA BASES AT LBL

CURRENT DATA BASES AT LBL

	Approx. No. of Records	Approx. No. of Characters
<u>DEMOGRAPHY AND SOCIAL SCIENCE</u>		
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
<u>GEOGRAPHY</u>		
Geographic Data Base: State, County, SMSA, and Census Tract boundaries	39,000	
<u>BUSINESS ENTERPRISE</u>		
I-O Economic Growth Model - Data Base, 1963, 1970		1.75 million
Index Items of Industrial Employment		3.5 million
I-O Tables, Mineral Industry, 1958	160,000	40 million
Location of Manufacturing Plants, 1963, 1967		77 million
I-O Tables - Interindustry Transactions, Direct and Total Requirements	1,200	7 million
OBERS Projections (Series E), 1950-2020		10.78 million
Gross Output: National and County level, 1958, 1963		
<u>EMPLOYMENT</u>		
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
<u>LABOR FORCE, EMPLOYMENT AND EARNINGS</u>		
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
<u>TRANSPORTATION</u>		
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
<u>AGRICULTURE AND HEALTH</u>		
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.

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

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 -

RACIAL GROUP	NUMBER			PERCENT DISTRIBUTION (VERTICAL)			PERCENT DISTRIBUTION (HORIZONTAL)		
	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.

APP-7

REPORT 1

00004302033

MANPOWER ADMINISTRATION EARNINGS OF MALES AND FEMALES 16 YEARS OLD AND OVER IN THE EXPERIENCED
 RUN DATE - 74/02/08 CIVILIAN LABOR FORCE BY OCCUPATIONAL GROUP, RACE, AND ETHNIC GROUP
 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

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APP-8

REPORT 2

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

NAME OF AREA (1)	POPULATION AGE 16-64 ALL EDUC. LEVELS COUNT (2)	NUMBER, PERCENTAGE DISTRIBUTION, AND RANK											
		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.
(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	158715	85.0	44	.148	53581	29.1	1	.202	103134	56.0	50	.130
ARIZONA	1032699	887704	85.0	39	.839	245654	23.8	12	.924	642050	62.2	38	.810
ARKANSAS	1102494	1008209	91.4	2	.953	177717	18.1	49	.659	830492	75.3	3	1.048
CALIFORNIA	12235812	10360038	84.7	46	9.788	3175211	28.0	5	11.947	7184825	58.7	48	9.064
COLORADO	1327691	1105314	83.3	50	1.044	313747	23.6	13	1.161	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	3445951	88.0	23	3.255	976501	24.9	8	3.874	2466650	63.0	35	3.114
GEORGIA	2750734	2459365	89.4	11	2.323	499222	18.1	39	1.878	1959143	71.2	12	2.472
HAWAII	477719	408483	85.1	43	.384	128101	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	1138797	86.3	34									
KENTUCKY	1889682	1721854	91.1	3									
LOUISIANA	2091155	1868881	89.3	13									
MAINE	571350	510660	89.4	12									

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

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	743697	87.7	24									
NEVADA	304275	266659	87.6	26									
NEW HAMPSHIRE	430697	376409	87.4	28									

NAME OF AREA (1)	POPULATION AGE 16-64 ALL EDUC. LEVELS COUNT (2)	NUMBER, PERCENTAGE DISTRIBUTION, AND RANK											
		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.
(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	8.004	1577296	22.2	19	5.935	4777028	67.2	22	6.027
RHODE ISLAND	576740	508638	88.3	20	.461	129918	22.6	18	.469	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	8631317	5779117	87.1	29	6.460	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	46438	17.7	40	.171	174858	68.2	17	.221
VIRGINIA	2861909	2476667	86.5	30	2.340	579595	20.3	30	2.161	1697072	66.3	28	2.393
WASHINGTON	2057400	1757334	85.4	42	1.660	528584	25.7	6	1.969	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

APP-9

00004302034

REPORT 3

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

RACIAL BREAKDOWN		MOTHER TONGUE		AGE BREAKDOWN		MALE		FEMALE				
NO.	PCT.	NO.	PCT.	NO.	PCT.	NO.	PCT.	NO.	PCT.			
WHITE	26,576	98.3	ENGLISH	22,029	81.0	UNDER 5	2,500	9.2	1,306	4.8	1,194	4.4
BLACK	353	1.3	GERMAN	471	1.7	5-9	3,055	11.3	1,533	5.7	1,522	5.6
AM INDIAN	34	.1	POLISH	183	.7	10-14	2,902	10.7	1,477	5.5	1,425	5.3
JAPANESE	13	.0	YIDDISH	254	.9	15-19	2,350	8.7	1,190	4.4	1,160	4.3
CHINESE	1	.0	ITALIAN	1,296	4.8	20-24	1,647	6.1	720	2.7	927	3.4
FILIPINO	10	.0	SPANISH	58	.2	25-34	3,256	12.0	1,529	5.7	1,727	6.4
OTHER	39	.1	ALL OTHERS	1,484	5.5	35-59	7,785	28.8	3,755	13.9	4,030	14.9
			NOT REPORTED	1,419	5.2	60+	3,533	13.1	1,485	5.5	2,048	7.6
TOTAL	27,026	100.0	TOTAL	27,194	100.0	TOTAL	27,028	100.0	12,995	48.1	14,033	51.9
						MEDIAN AGE (YRS.)	28.3		26.8		29.6	

ETHNIC GROUP	NO.	PCT.	INDUSTRIAL DISTRIBUTION 3/	NO.	PCT.	INCOME	FAMILY COUNT	NO.	PCT.
SP AMER 2/	39	.1	ALL INDUSTRIES	10,297	100.0	UNDER \$3,000	515	7.6	
			CONSTRUCTION	615	6.0	\$3,000-\$3,999	269	4.0	
			MANUFACTURING	2,995	29.1	\$4,000-\$4,999	333	4.9	
			DURABLES	2,168	21.1	\$5,000-\$5,999	298	4.4	
			NON DURABLES	827	8.0	\$6,000-\$6,999	414	6.1	
			PUBLIC UTILITIES	693	6.7	\$7,000-\$9,999	1,373	20.2	
			TRANSPORTATION	313	3.0	\$10,000-\$14,999	2,032	30.0	
			OTHER	380	3.7	\$15,000-\$24,999	1,142	16.8	
			WHOLESALE - RETAIL TRADE	2,074	20.1	\$25,000-\$49,999	354	5.2	
			FIN,INS,BUS,AND REPAIR -	615	6.0	\$50,000 AND OVER	54	.8	
			OTHER PROFES+RELATED SER	1,493	14.5	TOTAL	6,784	100.0	
			EDUCATIONAL SERVICES	758	7.4	HOUSEHOLD EQUIP	NO.	PCT.	
			PUBLIC ADMINISTRATION	511	5.0	WASHING MACH	6,547	81.0	
			OTHER INDUSTRIES	543	5.3	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	

TOTAL LABOR FORCE (CIVILIAN)	NO.	PCT.	INDUSTRIAL DISTRIBUTION 3/	NO.	PCT.	INCOME	FAMILY COUNT	NO.	PCT.
ARMED FORCES	2		ALL INDUSTRIES	10,297	100.0	UNDER \$3,000	515	7.6	
EMPLOYED	10,297	96.5	CONSTRUCTION	615	6.0	\$3,000-\$3,999	269	4.0	
UNEMPLOYED	376	3.5	MANUFACTURING	2,995	29.1	\$4,000-\$4,999	333	4.9	
OCCUPATIONAL DISTRIBUTION 3/			DURABLES	2,168	21.1	\$5,000-\$5,999	298	4.4	
ALL OCCUPATIONS	10,297	100.0	NON DURABLES	827	8.0	\$6,000-\$6,999	414	6.1	
PROFESSIONAL AND KINDRED	2,145	20.8	PUBLIC UTILITIES	693	6.7	\$7,000-\$9,999	1,373	20.2	
FARMERS AND FARM MANAGERS	97	.9	TRANSPORTATION	313	3.0	\$10,000-\$14,999	2,032	30.0	
MANAGERS EXCEPT FARM	930	9.0	OTHER	380	3.7	\$15,000-\$24,999	1,142	16.8	
CLERICAL AND KINDRED	1,842	17.9	WHOLESALE - RETAIL TRADE	2,074	20.1	\$25,000-\$49,999	354	5.2	
SALES WORKERS	825	8.0	FIN,INS,BUS,AND REPAIR -	615	6.0	\$50,000 AND OVER	54	.8	
CRAFTSMEN,FOREMEN,AND KINDRED	1,202	11.7	OTHER PROFES+RELATED SER	1,493	14.5	TOTAL	6,784	100.0	
OPERATIVES AND KINDRED	1,635	15.9	EDUCATIONAL SERVICES	758	7.4	HOUSEHOLD EQUIP	NO.	PCT.	
SERVICE INCLUDING PRIV HOUSE	1,243	12.1	PUBLIC ADMINISTRATION	511	5.0	WASHING MACH	6,547	81.0	
FARM-LABORS AND FOREMEN	19	.2	OTHER INDUSTRIES	543	5.3	CLOTHES DRYER	4,281	53.0	
LABORS-EXCEPT FARM OR MINE	359	3.5				DISHWASHER	1,866	23.1	
TOTAL-FAMILIES	6,781	100.0				HOME FREEZER	1,893	23.4	
ON PUBLIC ASSISTANCE	333	4.9				TELEVISION	7,702	95.3	
BELOW POVERTY LEVEL	540	8.0				UHF-EQUIPPED	6,239	77.2	
FEMALE HEAD,BELOW POV	150	2.2				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

REPORT 6 (ALL STATES, EXCEPT NEW ENGLAND)

00004302035

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

DESTINATIONS	(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				
	(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
REMAINDER 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

APP-12

REPORT 6 (NEW ENGLAND STATES ONLY)

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			MINING			CONSTRUCTION					
		NUMBER	1/ PCT.	2/ RANK	3/ PCT.	NUMBER	1/ PCT.	2/ RANK	3/ PCT.	NUMBER	1/ PCT.	2/ RANK	3/ PCT.
NATION	2,886,868	164,567	5.70	100.00	29,090	1.01	100.00	173,883	6.02	100.00			
UNITED STATES TOTALS 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	8,608	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	45.78	3,084	.31	28	10.80	65,579	6.52	20	31.94
COLORADO	63,898	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	36	.09	857	3.49	39	.49
DELAWARE	1,940	22	1.13	44	.01	0	.00	46	.00	121	6.24	18	.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	.35	157	2.86	47	.09
ILLINOIS	126,603	1,241	1.98	46	.75	180	.14	34	.82	3,651	2.88	46	2.10
INDIANA	21,185	462	2.18	30	.28	38	.17	32	.12	699	3.30	43	.40
IOWA	5,874	244	4.16	18	.15	5	.09	38	.02	240	4.09	26	.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	18	.10	110	3.60	37	.08
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	19,831	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	28	.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	13,983	183	1.31	42	.11	43	.31	27	.15	437	3.13	44	.28
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	5,890											
NEW YORK	233,090	1,078											
NORTH CAROLINA	6,505	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			MINING			CONSTRUCTION					
		NUMBER	1/ PCT.	2/ RANK	3/ PCT.	NUMBER	1/ PCT.	2/ RANK	3/ PCT.	NUMBER	1/ PCT.	2/ RANK	3/ PCT.
NATION	2,886,868	164,567	5.70	100.00	29,090	1.01	100.00	173,883	6.02	100.00			
UNITED STATES TOTALS STATES													
ORRSON	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	2	.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	20.09	8,483	1.41	15	29.09	54,829	9.08	4	31.36
UTAH	12,470	361	2.89	24	.22	287	7.11	2	3.05	597	4.79	28	.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	668	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	280	5.58	12	.18	386	7.46	1	1.33	378	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.

U. S. DEPARTMENT OF LABOR
MANPOWER ADMINISTRATION

BLACK RACE
EMPLOYED POPULATION 16 YEARS AND OVER
BY OCCUPATION

RUN DATE - 7/11/14.

NAME OF AREA	TOTAL EMPLOYED ALL OCCUPATIONS COUNT	NUMBER, PERCENTAGE DISTRIBUTION, AND RANK											
		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	7,361,143	35,801	.49	100.00	44,529	.60	100.00	150,372	2.04	100.00			
STATES													
ALABAMA	264,435	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	1.25	5	.05	55	2.81	8	.04
ARIZONA	15,045	32	.21	33	.09	91	.60	21	.20	264	1.75	24	.18
ARKANSAS	86,509	146	.17	36	.41	750	.87	14	1.59	1,504	1.74	25	1.00
CALIFORNIA	450,125	2,328	.52	18	6.50	2,549	.57	22	5.72	8,524	1.89	22	5.67
COLORADO	21,121	75	.36	33	.31	78	.36	35	.17	262	1.24	42	.17
CONNECTICUT	65,775	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	627	.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	2.55	7	.01
ILLINOIS	464,402	3,731	.80	11	10.42	1,120	.24	42	2.52	6,172	1.33	35	4.10
INDIANA	121,410	1,735	1.43	3	4.85	290	.24	43	.85	2,361	1.94	20	1.57
IOWA	10,846	83	.77	12	.23	40	.37	33	.09	151	1.39	36	.10
KANSAS	31,300	294	.94	10	.22	114	.36	34	.28	476	1.53	34	.32
KENTUCKY	72,950	234	.32	26	.65	237	.33	36	.53	1,478	2.03	19	.98
LOUISIANA	268,597	703	.26	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	4,024											
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	384,673	688											
NORTH DAKOTA	158	0											
OHIO	336,546	3,496											
OKLAHOMA	47,867	80											

U. S. DEPARTMENT OF LABOR
MANPOWER ADMINISTRATION

BLACK RACE
EMPLOYED POPULATION 16 YEARS AND OVER
BY OCCUPATION

RUN DATE - 7/11/14.

NAME OF AREA	TOTAL EMPLOYED ALL OCCUPATIONS COUNT	NUMBER, PERCENTAGE DISTRIBUTION, AND RANK											
		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	7,361,143	35,801	.49	100.00	44,529	.60	100.00	150,372	2.04	100.00			
STATES													
OREGON	9,456	91	1.08	7	.25	21	.25	40	.05	104	1.23	43	.07
PENNSYLVANIA	348,989	2,025	.58	16	5.66	1,547	.44	26	3.47	5,599	1.60	30	3.72
RHODE ISLAND	7,859	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	8,576	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	.95	11	6.23	6,557	2.97	5	6.69
WASHINGTON	21,650	182	.84	13	.42	137	.63	20	.31	551	2.56	10	.38
WEST VIRGINIA	15,693	51	.32	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 (PREV)
- 3/ PERCENT OF TOTAL AREA (LINE 1)
- 4/ INCLUDES NOT REPORTED CASES ALLOCATED TO THIS
- 5/ FARMERS, FARM MANAGERS, FARM LABORERS, AND FARM
- 6/ PHYSICIANS, DENTISTS, PRACTITIONERS, OTHER HE/
- 7/ NON-FARM LABOR, FARM LABOR, FARM FOREMEN, CLEANING, AND PRIVATE HOUSEHOLD WORKERS

- 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 WORKERS, 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.

NAME OF AREA	TOTAL EMPLOYED ALL OCCUPATIONS COUNT	NUMBER, PERCENTAGE DISTRIBUTION, AND RANK											
		PROFESSIONAL, TECHNICAL AND KINDRED, TOTAL			NURSES			MEDICAL AND OTHER HEALTH WORKERS, EXCEPT NURSES					
		NUMBER	1/ PCT. RANK	2/ PCT.	NUMBER	1/ PCT. RANK	2/ PCT.	3/ PCT.	NUMBER	1/ PCT. RANK	2/ PCT.	3/ PCT.	
NATION	368,041	66,154	17.97	100.00	14,644	4.03	100.00	9,280	2.52	100.00			
UNITED STATES TOTALS													
ALABAMA	534	98	18.35	27	.15	23	4.31	20	.15	19	3.56	20	.20
ALASKA	3,789	333	8.84	49	.50	58	1.54	44	.39	9	.24	48	.19
ARIZONA	7,289	778	10.68	48	1.17	195	2.64	35	1.31	33	.45	46	.38
ARKANSAS	482	70	14.49	36	.11	8	1.24	48	.04	6	1.24	34	.06
CALIFORNIA	113,044	17,901	15.84	29	27.08	4,096	3.62	28	27.59	2,229	1.97	30	24.62
COLORADO	3,186	450	14.13	28	.68	70	2.20	38	.47	27	.86	39	.29
CONNECTICUT	1,884	633	33.60	4	.96	63	3.34	27	.42	221	11.73	1	2.38
DELAWARE	247	107	30.84	7	.18	19	5.48	9	.13	33	9.51	4	.38
DISTRICT OF COLUMBIA	1,978	544	28.97	12	.82	91	4.85	14	.61	52	2.77	22	.66
FLORIDA	2,972	537	18.07	28	.81	109	3.67	25	.73	108	3.63	19	1.18
GEORGIA	1,952	195	10.54	24	.29	71	8.78	7	.46	28	2.88	28	.30
HAWAII	80,700	11,801	14.62	24	17.84	1,857	1.93	41	10.49	564	.89	41	8.97
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	634	6.05	13	9.04
INDIANA	1,808	537	29.70	9	.81	87	4.81	15	.59	97	5.37	15	1.06
IOWA	670	252	28.97	13	.38	37	4.25	21	.25	57	6.55	10	.81
KANSAS	1,890	277	14.66	33	.42	39	2.05	49	.28	46	2.43	27	.30
KENTUCKY	688	141	20.49	21	.21	30	4.35	19	.20	44	6.40	12	.47
LOUISIANA	793	120	15.18	20	.18	42	5.30	11	.28	11	1.39	33	.12
MAINE	284	14	5.30	51	.92	3	1.14	48	.02	7	2.68	28	.08
MARYLAND	2,681	1,210	33.05	5	1.82	220	5.01	8	1.48	235	6.42	11	2.33
MASSACHUSETTS	5,060	1,017	20.10	22	1.54	141	2.79	23	.95	234	4.62	18	2.52
MICHIGAN	5,890	1,710	29.19	11	2.80	458	7.72	5	5.07	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												

U. S. DEPARTMENT OF LABOR
MANPOWER ADMINISTRATION

OTHER RACES
EMPLOYED FEMALES 16 YEARS OLD AND OVER
BY OCCUPATION

RUN DATE - 73/11/14.

NAME OF AREA	TOTAL EMPLOYED ALL OCCUPATIONS COUNT	NUMBER, PERCENTAGE DISTRIBUTION, AND RANK											
		PROFESSIONAL, TECHNICAL AND KINDRED, TOTAL			NURSES			MEDICAL AND OTHER HEALTH WORKERS, EXCEPT NURSES					
		NUMBER	1/ PCT. RANK	2/ PCT.	NUMBER	1/ PCT. RANK	2/ PCT.	3/ PCT.	NUMBER	1/ PCT. RANK	2/ PCT.	3/ PCT.	
NATION	368,041	66,154	17.97	100.00	14,644	4.03	100.00	9,280	2.52	100.00			
UNITED STATES TOTALS													
OREGON	3,778	546	14.51	35	.83	85	2.25	37	.57	82	2.17	28	.88
PENNSYLVANIA	5,350	1,697	31.72	8	2.57	675	12.62	2	4.55	369	6.90	8	3.98
RHODE ISLAND	687	147	21.40	19	.22	21	3.05	30	.14	47	6.84	9	.51
SOUTH CAROLINA	626	93	14.86	31	.14	9	1.44	45	.08	4	.64	42	.04
SOUTH DAKOTA	2,593	332	12.85	41	.50	56	2.17	39	.38	8	.31	47	.09
TENNESSEE	911	259	28.43	15	.38	46	5.05	12	.31	80	8.78	5	.86
TEXAS	6,728	1,243	18.46	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	99	35	39.39	1	.05	0	.00	51	.00	0	.00	51	.00
VIRGINIA	2,929	773	26.39	14	1.17	249	8.50	4	1.88	155	5.29	14	1.67
WASHINGTON	10,000	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	.97	25	10.55	2	.27
WISCONSIN	3,254	600	18.44	28	.91	38	1.17	47	.28	90	2.77	33	.97
WYOMING	464	47	10.13	47	.07	25	5.39	10	.17	5	1.08	35	.65

- 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 POB
- AND PRIVATE HOUSEHOLD WORKERS

- 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.

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 RACE/ETHNIC GROUP AND SEX						
ITEM	BOTH SEXES		MALE		FEMALE	
	NO.	PCT.	NO.	PCT.	NO.	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

EMPLOYED PERSONS 16 YEARS + BY EARNINGS IN 1969 1/			
RACE AND ETHNIC GROUP	TOTAL	BLACK	SP. AM.
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	17.9	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

EXPERIENCED LABOR FORCE 16 YEARS + BY WEEKS WORKED IN 1969						
TOTAL WHO WORKED	BOTH SEXES		MALE		FEMALE	
	NO.	PCT.	NO.	PCT.	NO.	PCT.
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	

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 14 YEARS + BY AGE AND SEX						
TOTAL 14 YEARS +	BOTH SEXES		MALE		FEMALE	
	NO.	PCT.	NO.	PCT.	NO.	PCT.
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.	
	NO.	PCT.	NO.	PCT.	NO.	PCT.
MALE - TOTAL						
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						
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	12.7
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.

APP-16

REPORT 10

MALES...

EMPLOYMENT STATUS OF PERSONS 16+						1/ EMPLOYED PERSONS 16 YEARS + BY RACE/ETHNIC GROUP		
ITEM	TOTAL	WHITE	BLACK	OTHER RACES	SP. AM.	ITEM	NO.	PCT.
EXPERIENCED LABOR FORCE	141,137	116,980	23,963	194	422	TOTAL EMPLOYED	137,739	100.0
EMPLOYED	137,739	114,570	22,986	183	389	WHITE	114,570	83.2
UNEMPLOYED	3,398	2,410	977	11	33	BLACK	22,986	16.7
UNEMPLOYMENT RATE	2.4	2.1	4.1	5.7	7.8	OTHER RACES 1/	183	.1
EXP. NOT IN LABOR FORCE	19,372					SPANISH AMERICAN	389	.3
LAST WORKED 1960-1963	2,670							
LAST WORKED 1964-1968	6,931							
LAST WORKED 1969-1970	9,771							

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

BY RACE/ETHNIC GROUP				EXPERIENCED LABOR FORCE 16 YEARS + BY WEEKS WORKED IN 1969		
ITEM	TOTAL	BLACK	SP. AM.	ITEM	NO.	PCT.
TOTAL EMPLOYED	137,739	22,986	389	EXPERIENCED LABOR FORCE TOTAL	141,137	
TOTAL WITH EARNINGS	139,070	23,367	413	TOTAL WHO WORKED	139,236	100.0
MEDIAN EARNINGS (\$)	6,405	4,047	6,308	50-52 WEEKS	111,058	79.8
WITH EARNINGS				27-49 WEEKS	22,198	15.9
BELOW \$2,000	10,167	3,212	0	1-25 WEEKS	5,980	4.3
BELOW \$4,000	29,486	11,453	56	DID NOT WORK IN 1969	1,901	
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				EMPLOYED 14 YEARS + BY AGE		
ITEM	TOTAL	BLACK	SP. AM.	ITEM	NO.	PCT.
TOTAL WORKED 50-52 WKS	110,996	15,830	320	TOTAL 14 YEARS +	138,201	100.0
PERCENT OF EARNERS	79.8	67.7	77.5	14-15 YEARS	462	.3
MEDIAN EARNINGS (\$)	6,909	4,434	7,357	16-17 YEARS	1,203	.9
WITH EARNINGS				18-19 YEARS	3,314	2.4
BELOW \$2,000	3,329	947	0	20-24 YEARS	15,042	10.9
BELOW \$4,000	14,883	6,261	30	25-34 YEARS	36,805	26.6
BELOW \$5,000	25,871	10,072	72	35-44 YEARS	32,269	23.3
BELOW \$6,000	41,075	12,485	121	45-54 YEARS	30,074	21.8
ABOVE \$10,000	15,586	229	101	55-64 YEARS	16,253	11.8
ABOVE \$15,000	2,344	38	34	65 YEARS AND OVER	2,779	2.0

TOTAL WITH EARNINGS				EMPLOYED 16 YEARS + BY CLASS OF WORKER AND RACE/ETHNIC GROUP		
ITEM	TOTAL	BLACK	SP. AM.	ITEM	NO.	PCT.
TOTAL WITH EARNINGS	139,070	23,367	413	TOTAL	137,739	100.0
PERCENT WITH EARNINGS	100.0	100.0	100.0	BLACK	22,986	100.0
BELOW \$2,000	7.3	13.7	0.0	SP. AM.	389	100.0
BELOW \$4,000	21.2	49.0	13.6	PRIVATE CO.	115,574	83.9
BELOW \$5,000	31.7	69.9	30.3	OWN BUS. INC	114,658	83.2
BELOW \$6,000	44.8	82.9	47.5	GOVERNMENT	916	.7
ABOVE \$10,000	12.2	1.3	25.9	FEDERAL	11,418	8.3
ABOVE \$15,000	1.9	.2	9.7	STATE	6,681	4.9

TOTAL WORKED 50-52 WKS				BY CLASS OF WORKER AND RACE/ETHNIC GROUP			
ITEM	TOTAL	BLACK	SP. AM.	ITEM	NO.	PCT.	1/
TOTAL WORKED 50-52 WKS	110,996	15,830	320	TOTAL	137,739	100.0	
PERCENT WITH EARNINGS	100.0	100.0	100.0	PRIVATE CO.	115,574	83.9	
BELOW \$2,000	3.0	6.0	0.0	OWN BUS. INC	916	.7	
BELOW \$4,000	13.4	39.6	9.4	GOVERNMENT	11,418	8.3	
BELOW \$5,000	23.3	63.6	22.5	FEDERAL	6,681	4.9	
BELOW \$6,000	37.0	78.9	37.8	STATE	2,727	2.0	
ABOVE \$10,000	14.0	1.4	31.6	LOCAL	2,010	1.5	
ABOVE \$15,000	2.1	.2	10.6	OWN BUS. NOT INC	10,641	7.7	
				UNPAID FAMILY	106	.1	

APP-17

REPORT II

00004302038

FEMALES...

EMPLOYMENT STATUS OF PERSONS 16+

1/ EMPLOYED PERSONS 16 YEARS + BY RACE/ETHNIC

ITEM	TOTAL	WHITE	BLACK	OTHER RACES	SP. AM.	GROUP	NO.	PCT.
EXPERIENCED LABOR FORCE	404,137	287,609	115,872	656	958			
EMPLOYED	384,517	276,901	106,990	626	881	ITEM		
UNEMPLOYED	19,620	10,708	8,882	30	77	TOTAL EMPLOYED	384,517	100.0
UNEMPLOYMENT RATE	4.9	3.7	7.7	4.6	8.0	WHITE	276,901	72.0
EXP. NOT IN LABOR FORCE	198,519					BLACK	106,990	27.8
LAST WORKED 1960-1963	24,344					OTHER RACES 1/	626	.2
LAST WORKED 1964-1968	75,389					SPANISH AMERICAN	881	.2
LAST WORKED 1969-1970	98,786							

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

ITEM	TOTAL	BLACK	SP. AM.	EXPERIENCED LABOR FORCE 16 YEARS + BY WEEKS WORKED IN 1969	NO.	PCT.
TOTAL EMPLOYED	384,517	106,990	881	ITEM		
TOTAL WITH EARNINGS	375,466	106,723	855	EXPERIENCED LABOR FORCE TOTAL	404,137	
MEDIAN EARNINGS (\$)	3,352	1,914	3,531	TOTAL WHO WORKED	379,913	100.0
WITH EARNINGS				50-52 WEEKS	215,353	56.7
BELOW \$2,000	114,845	55,389	196	27-49 WEEKS	103,528	27.3
BELOW \$4,000	233,329	89,191	508	1-25 WEEKS	61,032	16.1
BELOW \$5,000	292,702	96,935	626	DID NOT WORK IN 1969	24,224	
BELOW \$6,000	331,467	101,381	762			
ABOVE \$10,000	4,159	293	7			
ABOVE \$15,000						

EMPLOYED 14 YEARS + BY AGE

ITEM	TOTAL	BLACK	SP. AM.	NO.	PCT.
TOTAL WORKED 50-52 WKS	212,496	53,389	386	TOTAL 14 YEARS +	387,469 100.0
PERCENT OF EARNERS	56.6	50.0	45.1	14-15 YEARS	2,952 .8
MEDIAN EARNINGS (\$)	4,047	2,566	4,588	16-17 YEARS	8,023 2.1
WITH EARNINGS				18-19 YEARS	17,766 4.6
BELOW \$2,000	32,926	21,042	57	20-24 YEARS	57,706 14.9
BELOW \$4,000	104,017	42,522	140	25-34 YEARS	81,475 21.0
BELOW \$5,000	151,477	48,061	230	35-44 YEARS	83,938 21.7
BELOW \$6,000	182,130	50,817	320	45-54 YEARS	76,865 19.8
ABOVE \$10,000	3,293	208	7	55-64 YEARS	46,553 12.0
ABOVE \$15,000				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	BLACK		SP. AM.	
		NO.	PCT.	NO.	PCT.
TOTAL --	384,517	106,990	100.0	881	100.0
PRIV WAGE + SAL	298,614	84,219	78.7	669	75.9
PRIVATE CO.	296,976	84,141	78.6	669	75.9
OWN BUS, INC	1,638	78	.1	0	0.0
GOVERNMENT	69,901	20,606	19.3	172	19.5
FEDERAL	12,360	2,809	2.6	47	5.3
STATE	24,338	7,387	6.9	67	7.6
LOCAL	33,203	10,410	9.7	58	6.6
OWN BUS, NOT INC	12,569	1,768	1.7	31	3.5
UNPAID FAMILY	3,433	397	.4	9	1.0

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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 SYSTEM

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.

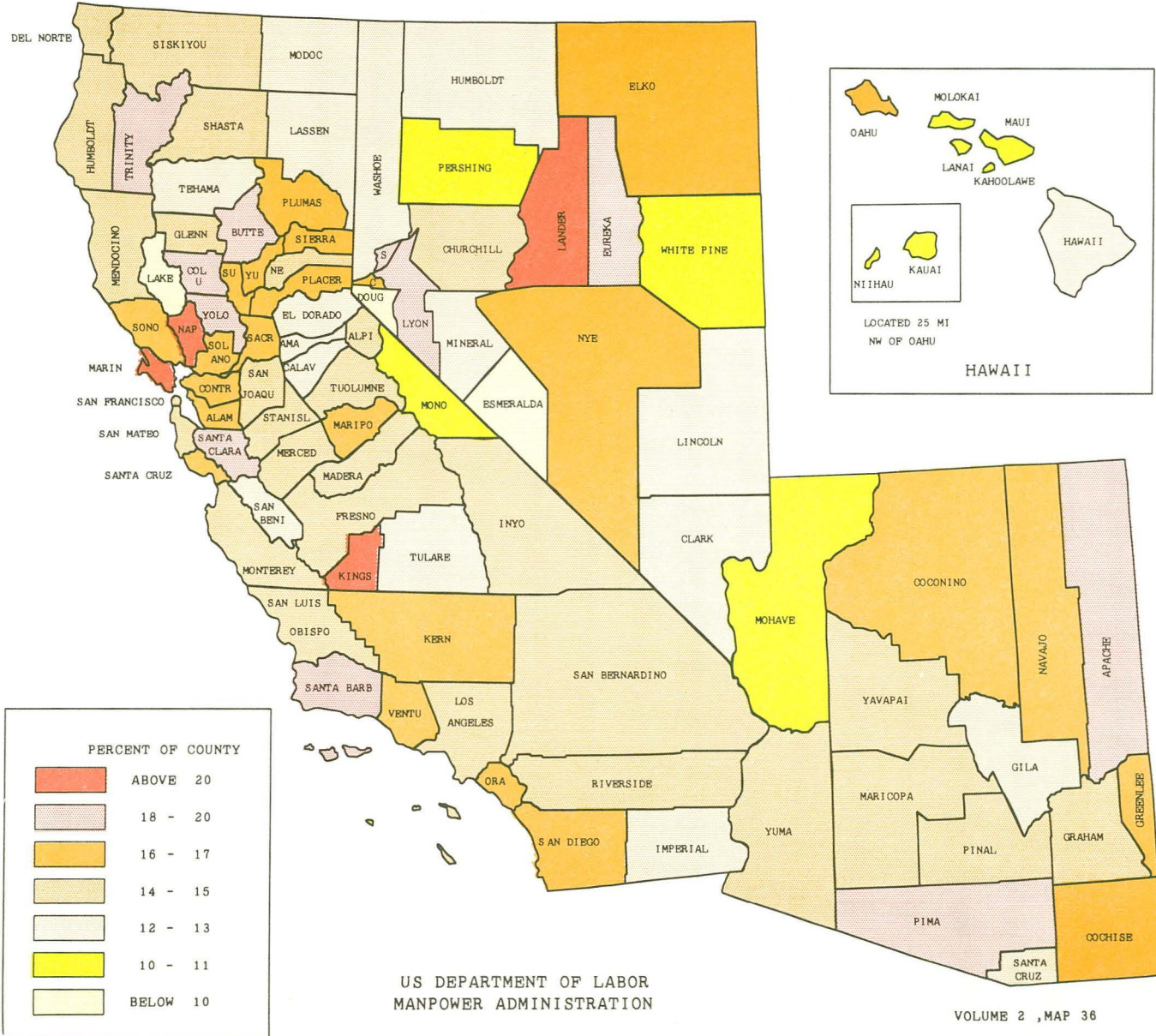
SMSA URBAN ATLASES

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 FEMALEES

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

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



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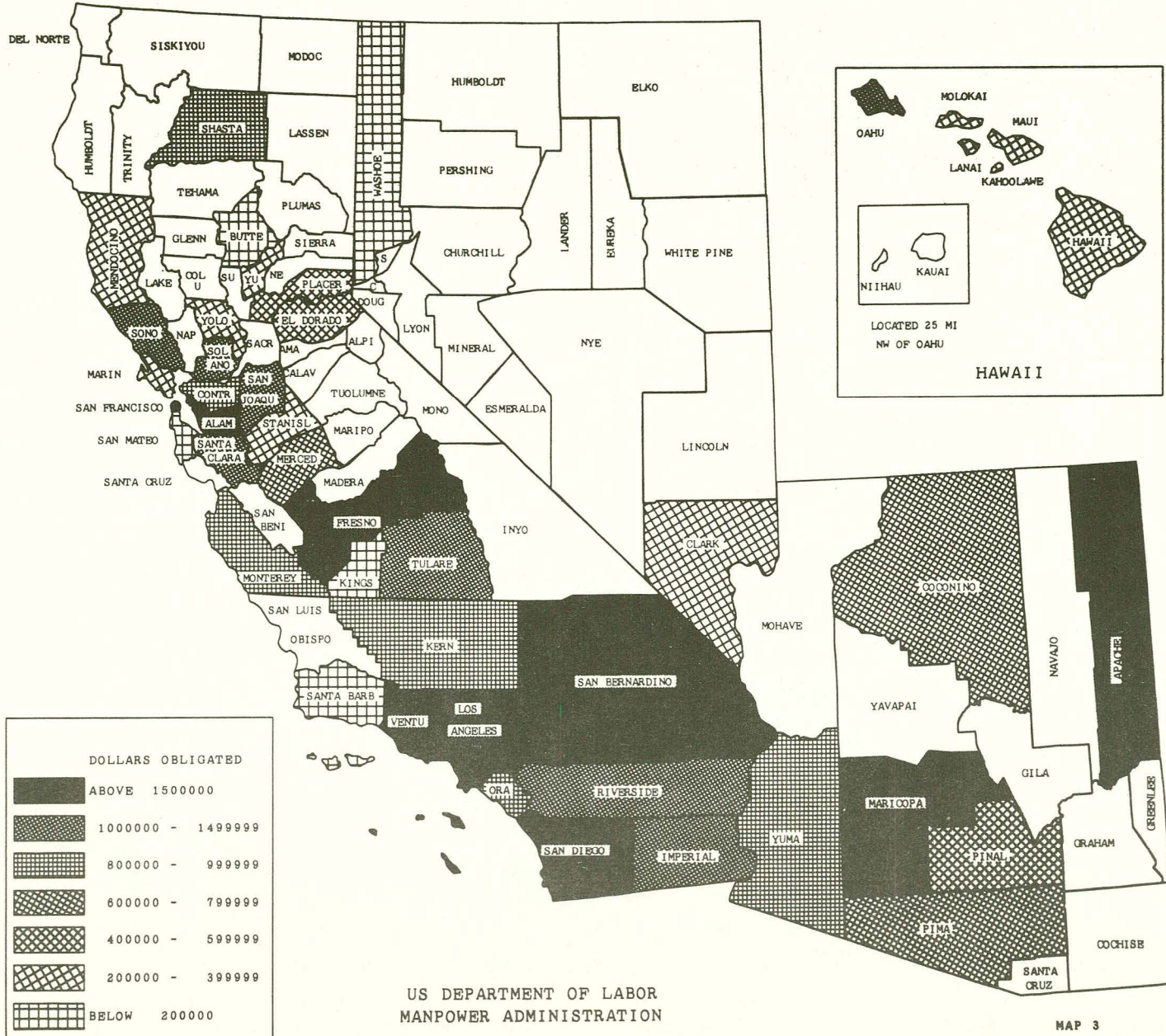
PROFESSIONAL WORKERS - ALL FEMALES

STATE AND COUNTY	TOTAL ALL OCCUPATIONS	PROFESSIONAL OCCUPATIONS	PERCENT OF COUNTY	PERCENT OF REGION	STATE AND COUNTY	TOTAL ALL OCCUPATIONS	PROFESSIONAL OCCUPATIONS	PERCENT OF COUNTY	PERCENT OF REGION
ARIZONA	230852	37089	16.1	7.2	San Benito	2241	286	12.8	.1
Apache	2405	479	19.9	.1	San Bernardino	81538	12384	15.2	2.4
Cochise	6113	1050	17.2	.2	San Diego	166534	28192	16.9	5.4
Coconino	6188	1099	17.8	.2	San Francisco	143021	22287	15.6	4.3
Gila	2655	345	13.0	.1	San Joaquin	34783	5449	15.7	1.1
Graham	1495	219	14.6	.0	San Luis Obispo	13264	2087	15.7	.4
Greenlee	846	150	17.7	.0	San Mateo	92562	13621	14.7	2.6
Maricopa	140643	21597	15.4	4.2	Santa Barbara	37511	6783	18.1	1.3
Mohave	2860	313	10.9	.1	Santa Clara	149911	28946	19.3	5.6
Navajo	4187	668	16.0	.1	Santa Cruz	16858	2716	16.1	.5
Pima	44012	8293	18.8	1.6	Shasta	9248	1429	15.5	.3
Pinal	6334	948	15.0	.2	Sierra	286	47	16.4	.0
Santa Cruz	1635	197	12.0	.0	Siskiyou	3476	506	14.6	.1
Yavapai	4322	680	15.7	.1	Solano	19206	3250	16.9	.6
Yuma	7157	1051	14.7	.2	Sonoma	25231	4470	17.7	.9
CALIFORNIA	2855187	452482	15.8	87.4	Stanislaus	23236	3684	15.9	.7
Alameda	161602	27023	16.7	5.2	Sutter	4719	843	17.9	.2
Alpine	89	10	14.5	.0	Tehama	3444	412	12.0	.1
Amador	1300	161	12.4	.0	Trinity	694	138	19.9	.0
Butte	12050	2233	18.5	.4	Tulare	24543	3360	13.7	.6
Calaveras	1365	171	12.5	.0	Tuolumne	2617	376	14.4	.1
Colusa	1511	284	18.8	.1	Ventura	46502	7645	16.4	1.5
Contra Costa	73167	12932	17.7	2.5	Yolo	12671	2523	19.9	.5
Del Norte	1780	274	15.4	.1	Yuba	3799	665	17.5	.1
El Dorado	6272	809	12.9	.2	HAWAII	117398	18675	15.9	3.6
Fresno	49381	7694	15.6	1.5	Hawaii	9121	1237	13.6	.2
Glenn	2081	306	14.7	.1	Honolulu	97007	16102	16.6	3.1
Humboldt	11578	1743	15.1	.3	Kauai	4405	517	11.7	.1
Imperial	8162	1065	13.0	.2	Mauai	6865	819	11.9	.2
Inyo	2104	311	14.8	.1	NEVADA	73384	9600	13.1	1.9
Kern	37978	6083	16.0	1.2	Churchill	1207	189	15.7	.0
Kings	6632	1338	20.2	.3	Clark	38899	4830	12.4	.9
Lake	2181	206	9.4	.0	Douglas	1177	82	7.0	.0
Lassen	1786	239	13.4	.0	Elko	2017	323	16.0	.1
Los Angeles	1105110	162658	14.7	31.4	Esmeralda	39	0	.0	.0
Madera	4123	585	14.2	.1	Eureka	120	23	19.2	.0
Marin	29947	6489	21.7	1.3	Humboldt	936	124	13.2	.0
Mariposa	711	119	16.7	.0	Lander	260	67	25.8	.0
Mendocino	6252	939	15.0	.2	Lincoln	308	38	12.3	.0
Merced	11203	1769	15.8	.3	Lyon	865	172	19.9	.0
Modoc	1048	142	13.5	.0	Mineral	1124	147	13.1	.0
Mono	683	69	10.1	.0	Nye	628	106	16.9	.0
Monterey	30852	4687	15.2	.9	Pershing	353	37	10.5	.0
Napa	10768	2229	20.7	.4	Storey	183	33	18.0	.0
Nevada	3136	459	14.6	.1	Washoe	21705	2864	13.2	.6
Orange	195681	31989	16.3	6.2	White Pine	1021	118	11.6	.0
Placer	9013	1539	17.1	.3	Carson City City	2542	447	17.6	.1
Plumas	1458	243	16.7	.0					
Riverside	56679	8930	15.8	1.7					
Sacramento	89629	14655	16.4	2.8					

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

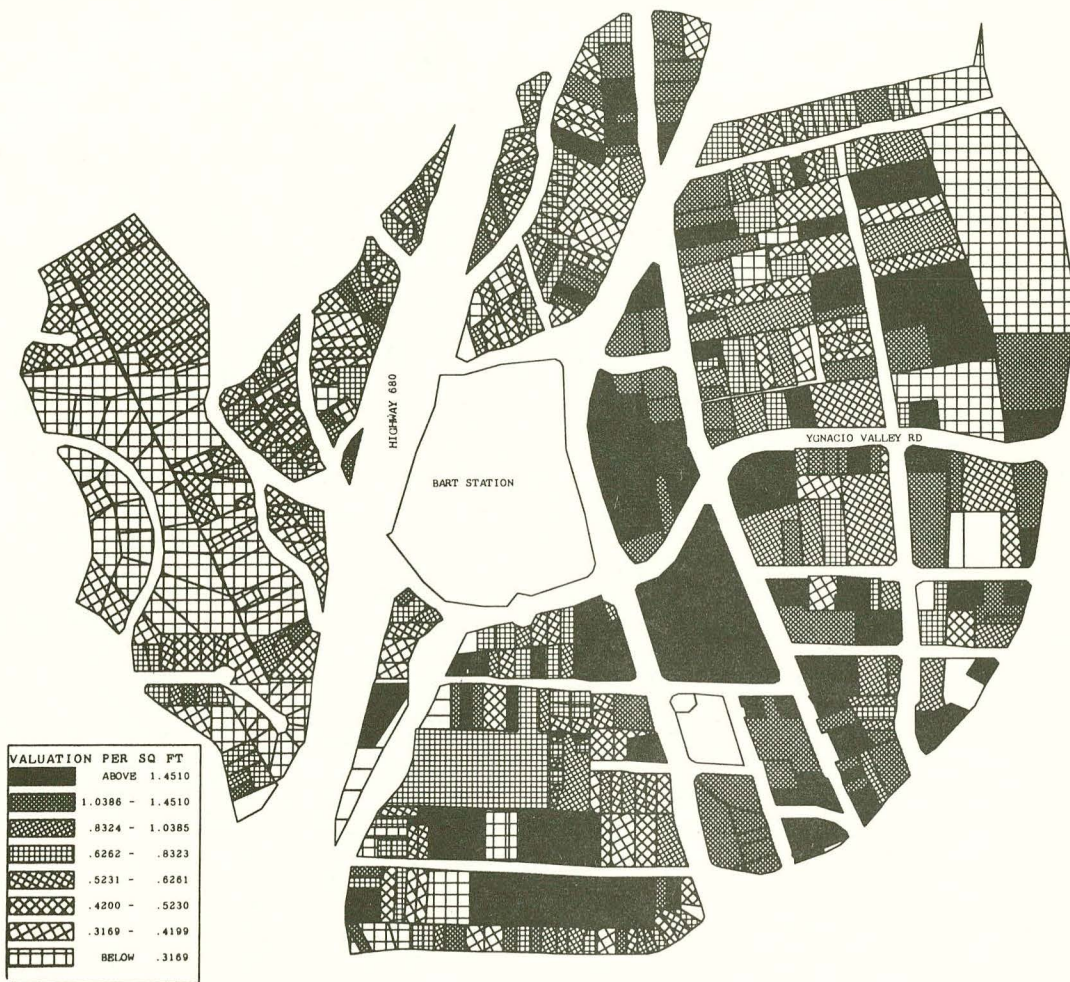
RUN DATE 73/10/17.
LAWRENCE BERKELEY LABORATORY
1970 CENSUS OF POPULATION

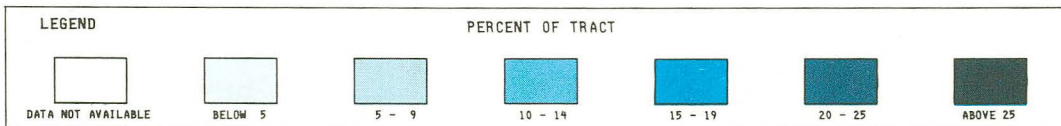
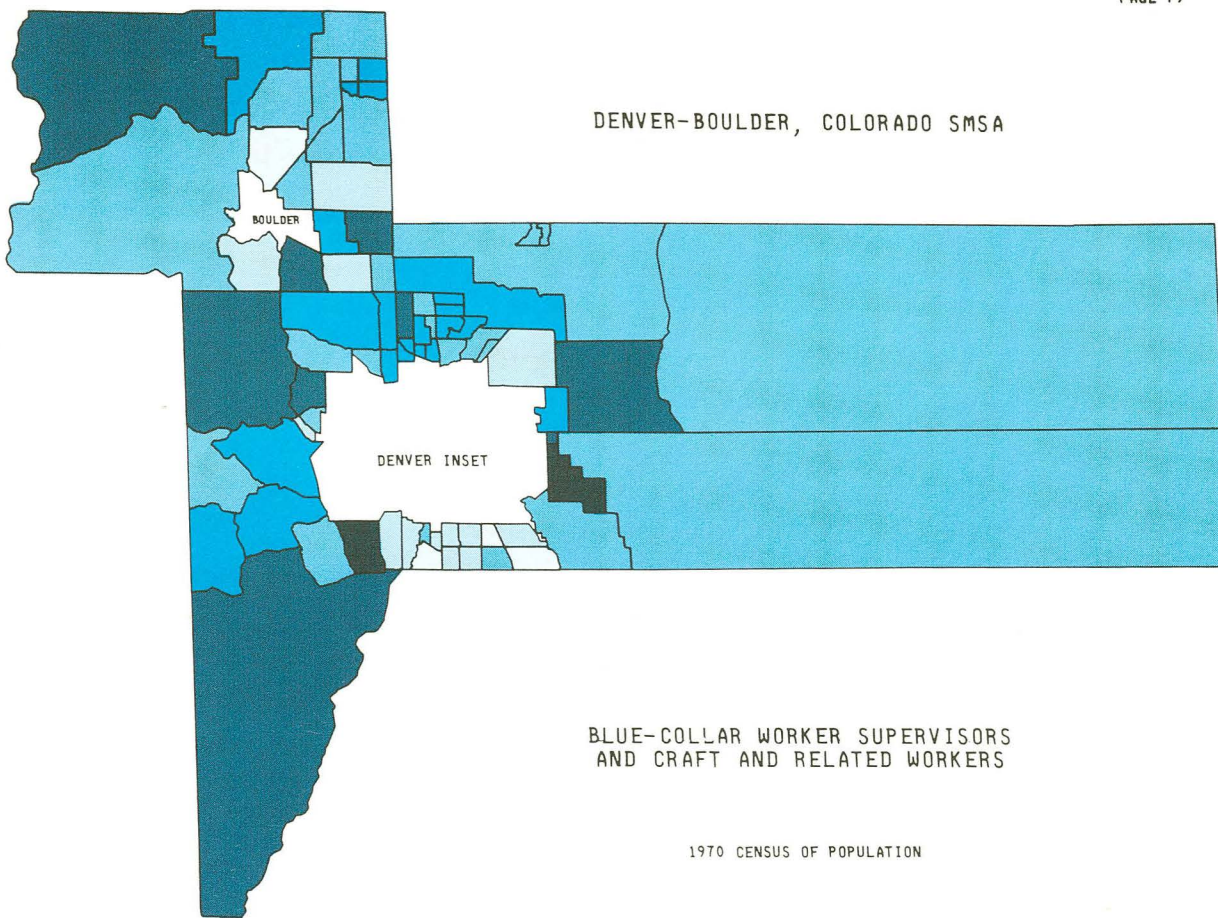
ARIZONA - CALIFORNIA - HAWAII - NEVADA -- FEDERAL REGION IX



MAP 2B

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





U.S. DEPARTMENT OF LABOR
MANPOWER ADMINISTRATION

LAWRENCE BERKELEY LABORATORY
UNIVERSITY OF CALIFORNIA

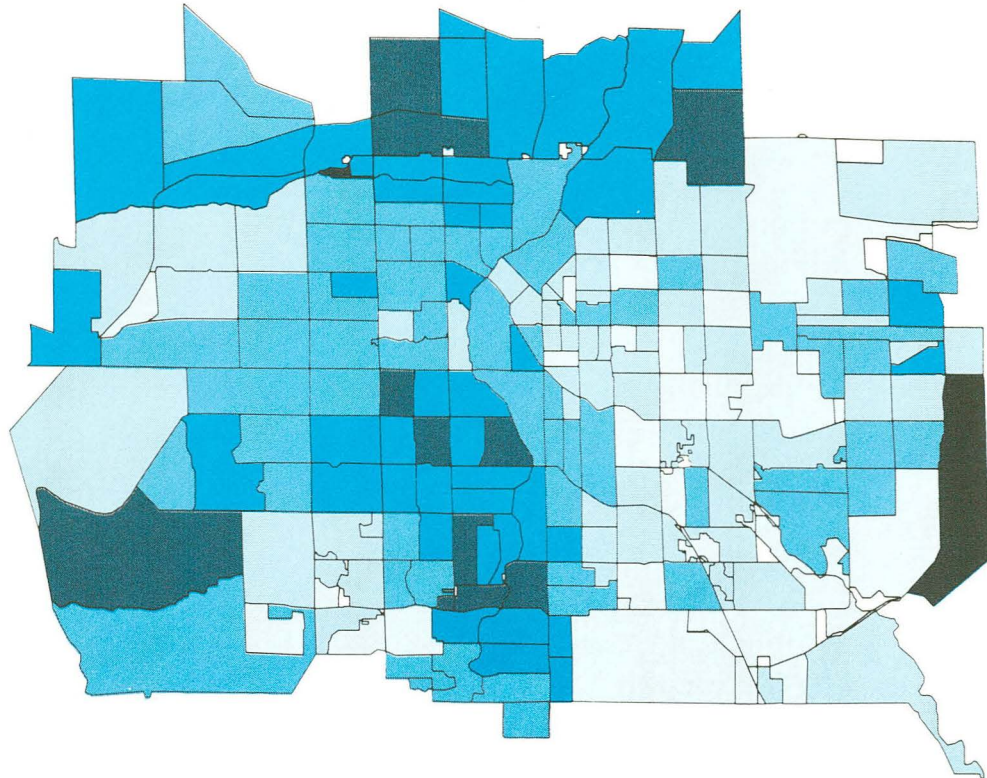
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BLUE-COLLAR WORKER SUPERVISORS AND CRAFT AND RELATED WORKERS

COUNTY AND CENSUS TRACT	TOTAL ALL OCCUP. AND RELATED WORKERS	BLUE-COLLAR SUPERVISORS OF TRACT	PERCENT OF SPSA	PERCENT OF TRACT	COUNTY AND CENSUS TRACT	TOTAL ALL OCCUP. AND RELATED WORKERS	BLUE-COLLAR SUPERVISORS OF TRACT	PERCENT OF SPSA	PERCENT OF TRACT	COUNTY AND CENSUS TRACT	TOTAL ALL OCCUP. AND RELATED WORKERS	BLUE-COLLAR SUPERVISORS OF TRACT	PERCENT OF SPSA	PERCENT OF TRACT	COUNTY AND CENSUS TRACT	TOTAL ALL OCCUP. AND RELATED WORKERS	BLUE-COLLAR SUPERVISORS OF TRACT	PERCENT OF SPSA	PERCENT OF TRACT
DENVER	492,961	59,283	12.0	100.0	7005	2,168	318	14.7	.5	1302	1,685	367	21.8	.6	5402	1,018	209	20.5	-.4
ADAMS	69,284	11,141	16.1	18.8	7007	1,276	111	8.7	-.2	1401	2,396	379	15.8	.6	5501	1	1	.1	-.1
7800	2,246	212	9.4	-.4	7008	326	69	21.2	-.1	1402	1,745	285	16.3	-.5	5502	207	9	4.3	-.0
7900	2,129	209	9.8	-.4	7010	70	18	25.7	-.1	1403	1,335	258	19.3	-.4	5503	770	88	11.4	-.1
8000	2,409	350	14.5	-.6	7011	261	37	14.2	-.1	1500	1,167	149	12.8	-.3	5601	427	52	12.2	-.1
8100	905	154	17.0	-.3	7051	68	8	11.8	0.0	1600	1,090	129	11.8	-.2	6701	43	0	0.0	0.0
8200	2,281	298	13.1	-.5	7052	449	56	12.5	-.1	1702	1,373	89	6.5	-.2	6801	1,347	86	6.4	-.1
8302	723	112	15.5	-.2	7056	530	9	1.7	0.0	1800	843	142	16.8	-.2	6802	1,029	31	3.0	-.1
8303	197	44	22.3	-.1	7100	687	93	13.9	-.2	2000	478	53	11.1	-.1	6901	947	87	9.1	-.1
8400	634	71	11.2	-.1	7200	2,824	346	12.3	-.6	2100	3,300	142	4.3	-.2	6904	62	0	0.0	0.0
8501	3,768	661	17.5	1.1	7300	3,055	342	11.2	-.6	2200	2,492	283	11.4	-.5	6902	181	58	6.1	-.1
8502	3,192	539	16.9	-.9	7400	2,254	289	12.8	-.5	2300	2,417	206	8.5	-.3	7001	1,139	71	6.2	-.1
8503	975	195	19.9	-.3	7500	1,086	92	8.5	-.2	2401	1,348	96	7.1	-.2	7002	1,22	0	0.0	0.0
8504	984	130	13.2	-.2	7600	936	157	16.8	-.3	2402	756	33	4.4	-.4	7003	1,955	162	8.3	-.3
8601	1,153	171	14.8	-.3	7701	1,022	55	5.4	-.1	2500	454	29	6.4	0.0	9700	18	0	0.0	0.0
8602	2,017	259	12.8	-.4	7702	1,270	92	7.2	-.2	2601	1,773	96	5.4	-.2	10601	505	97	19.2	-.2
8701	62	4	6.5	0.0						2602	1,194	129	10.8	-.2	11500	39	5	12.8	-.0
8702	3,909	675	17.3	1.1	BOULDER	52,482	5,894	11.2	9.9	2701	3,359	210	6.3	-.4	11901	369	33	8.9	-.1
8703	1,858	388	20.9	-.7	12101	2,240	278	12.4	-.5	2702	3,349	155	4.6	-.3	11902	1,456	117	8.0	-.2
8801	1,651	241	14.6	-.4	12102	2,609	379	14.5	-.6	2803	3,820	305	8.0	-.5	11903	598	46	7.7	-.1
8802	1,717	254	14.8	-.4	12103	1,175	158	13.5	-.3	2802	2,006	148	7.4	-.2	12001	234	0	0.0	0.0
8901	1,116	192	17.2	-.3	12104	202	29	14.4	0.0	2903	2,228	275	10.1	-.2					
8902	601	108	18.0	-.2	12201	2,409	170	7.1	-.3	2803	2,746	219	8.0	-.4	JEFFERSON	95,000	12,860	13.5	21.7
9000	3,107	380	12.2	-.6	12202	1,701	137	8.1	-.2	2901	1,901	207	10.9	-.3	9801	1,020	191	18.7	-.3
9100	2,526	458	18.1	-.8	12303	1,046	75	7.2	-.1	2902	2,134	303	14.1	-.1	9802	525	80	15.2	-.1
9200	2,009	345	17.2	-.6	12304	1,728	27	1.6	0.0	3001	3,076	401	13.0	-.5	9803	989	115	11.6	-.2
9301	3,754	714	19.0	1.2	12401	2,295	112	4.9	-.2	3002	1,435	232	16.2	-.4	9804	1,298	312	24.0	-.5
9302	2,990	448	15.0	-.8	12402	835	31	3.7	-.1	3003	1,785	156	8.7	-.3	9805	864	147	17.0	-.2
9303	1,231	207	16.8	-.3	12501	412	27	6.6	0.0	3004	2,559	211	7.9	-.4	9806	1,532	94	6.1	-.2
9304	1,424	185	13.0	-.3	12502	1,262	58	4.6	-.1	3005	549	51	6.8	-.1	9807	704	30	4.3	-.1
9401	2,001	234	11.7	-.4	12503	493	37	7.5	-.1	3101	1,066	54	5.1	-.1	9808	784	176	22.4	-.3
9402	2,142	328	15.3	-.6	12504	2,927	349	11.9	-.6	3102	2,038	236	11.6	-.4	9809	1,139	123	10.8	-.2
9505	1,474	304	20.6	-.5	12505	1,653	66	4.0	-.1	3201	1,418	172	12.2	-.3	9810	1,511	237	15.7	-.4
9501	1,762	290	16.5	-.5	12506	2,444	189	7.7	-.3	3202	1,746	92	5.3	-.2	9900	732	102	13.9	-.2
9502	1,738	322	18.5	-.5	12601	3,254	327	10.0	-.6	3203	1,394	71	5.1	-.1	10000	1,310	118	9.0	-.2
9503	1,384	223	16.1	-.4	12602	293	6	2.0	0.0	3300	1,662	117	7.0	-.2	10100	1,486	293	19.7	-.5
9601	3,417	629	18.4	1.1	12701	392	17	4.3	0.0	3400	3,313	327	10.2	-.6	10201	4,803	854	17.8	1.4
9602	1,960	412	21.0	-.7	12702	1,115	115	10.3	-.2	3500	1,946	316	16.2	-.5	10202	2,384	294	12.3	-.5
9700	1,838	435	23.7	-.7	12703	925	108	11.7	-.2	3601	1,628	143	8.8	-.2	10301	4,433	528	11.9	-.9
ARAPAHOE	63,500	7,162	11.3	12.1	12704	183	37	20.2	-.1	3602	1,842	180	9.8	-.3	10302	3,710	484	13.0	-.8
4052	95	4	4.2	0.0	12800	764	61	8.0	-.1	3603	1,909	94	4.9	-.2	10402	1,874	336	17.9	-.4
4452	0	0	0.0	0.0	12900	1,710	376	22.0	-.6	3701	1,305	168	12.9	-.3	10403	1,813	283	15.6	-.6
4852	109	24	22.0	0.0	13000	1,495	273	18.3	-.5	3702	3,000	142	4.7	-.2	10451	1,463	250	17.1	-.4
4950	586	56	9.6	-.1	13101	3,353	428	12.8	-.7	3703	2,104	112	5.3	-.2	10501	2,829	216	7.6	-.4
5250	57	0	0.0	0.0	13102	70	5	7.1	0.0	3800	2,180	203	9.3	-.3	10502	2,670	284	9.9	-.4
5350	229	9	3.9	0.0	13201	335	38	11.3	-.1	3901	1,699	59	3.5	-.1	10602	3,540	492	13.9	-.8
5403	283	55	19.4	-.1	13202	273	40	14.7	-.2	3902	2,136	133	6.2	-.2	10651	36	11	30.6	0.0
5551	503	105	20.9	-.2	13203	718	107	14.9	-.1	4001	3,728	318	8.5	-.5	10700	3,451	428	12.4	-.7
5552	1,127	186	16.5	-.3	13204	1,074	130	12.1	-.2	4002	1,512	32	2.1	-.1	10800	2,628	245	9.3	-.4
5553	1,299	190	14.6	-.3	13205	397	47	11.8	-.1	4003	2,706	319	11.8	-.5	10900	2,849	422	14.8	-.7
5602	1,543	73	4.7	-.1	13301	2,537	369	14.5	-.6	4004	1,040	39	3.8	-.1	11000	2,865	343	12.0	-.6
5603	1,899	119	6.3	-.2	13302	2,470	384	15.5	-.6	4101	1,582	114	7.2	-.2	11100	2,562	310	12.1	-.5
5604	3,922	335	8.5	-.6	13400	1,195	230	19.2	-.4	4102	2,183	167	7.7	-.3	11200	2,533	311	12.3	-.5
5605	2,362	190	8.0	-.3	13500	1,931	325	16.8	-.5	4103	2,942	304	10.3	-.5	11300	1,772	297	16.8	-.5
5606	1,304	77	5.9	-.1	13601	790	154	19.5	-.3	4104	2,567	164	6.4	-.3	11400	2,366	291	12.3	-.5
5651	2,752	234	8.5	-.4	13602	101	21	20.8	0.0	4105	34	0	0.0	0.0	11500	2,868	386	13.5	-.7
5700	1,402	313	22.3	-.5	13700	1,676	174	10.4	-.3	4201	2,424	141	5.8	-.2	11600	3,317	367	11.1	-.6
5800	1,656	204	12.3	-.3	DENVER	212,695	22,226	10.4	37.5	4202	2,199	108	4.9	-.2	11701	1,283	160	12.5	-.3
5900	2,639	311	11.8	-.5	101	1,506	237	15.7	-.4	4301	3,255	144	4.4	-.2	11702	2,519	370	14.7	-.6
6000	1,604	290	18.1	-.5	102	1,710	249	14.5	-.5	4302	1,329	95	7.1	-.2	11703	2,291	361	15.8	-.6
6100	1,378	229	16.6	-.4	201	1,862	306	16.4	-.5	4303	2,754	444	16.1	-.5	11704	2,336	286	11.4	-.4
6200	1,765	346	19.6	-.6	202	1,707	277	16.2	-.5	4304	2,857								

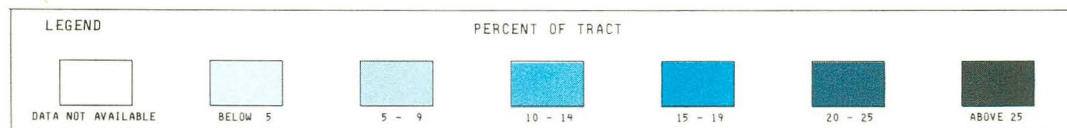
DENVER AREA INSET

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BLUE-COLLAR WORKER SUPERVISORS AND CRAFT AND RELATED WORKERS

1970 CENSUS OF POPULATION

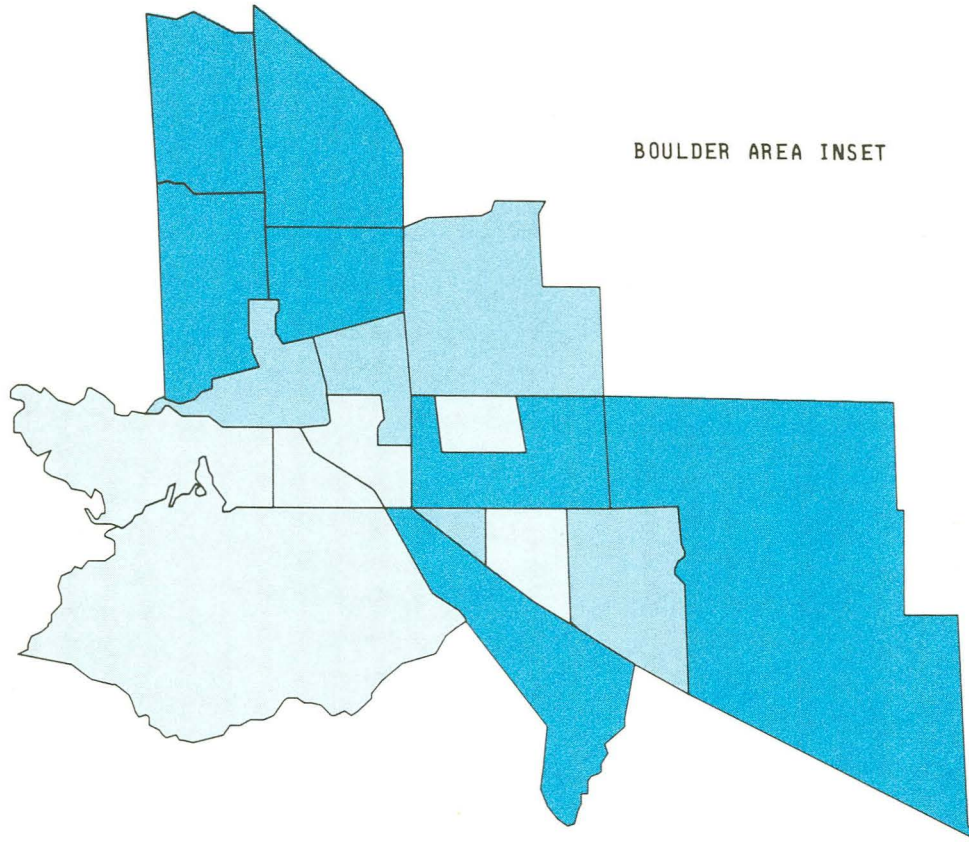


U. S. DEPARTMENT OF LABOR
MANPOWER ADMINISTRATION

LAWRENCE BERKELEY LABORATORY
UNIVERSITY OF CALIFORNIA

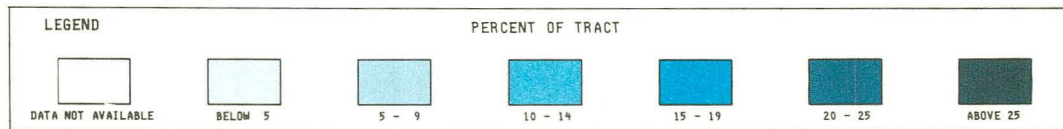
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BOULDER AREA INSET



BLUE-COLLAR WORKER SUPERVISORS AND CRAFT AND RELATED WORKERS

1970 CENSUS OF POPULATION

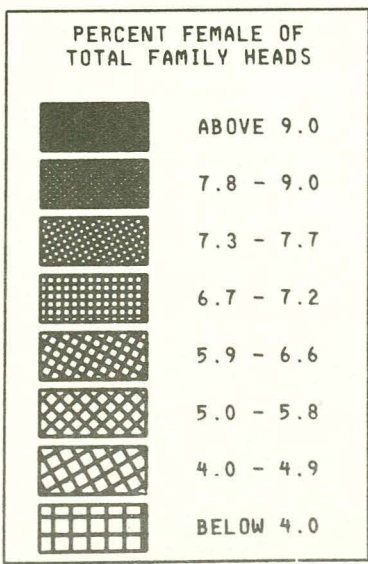
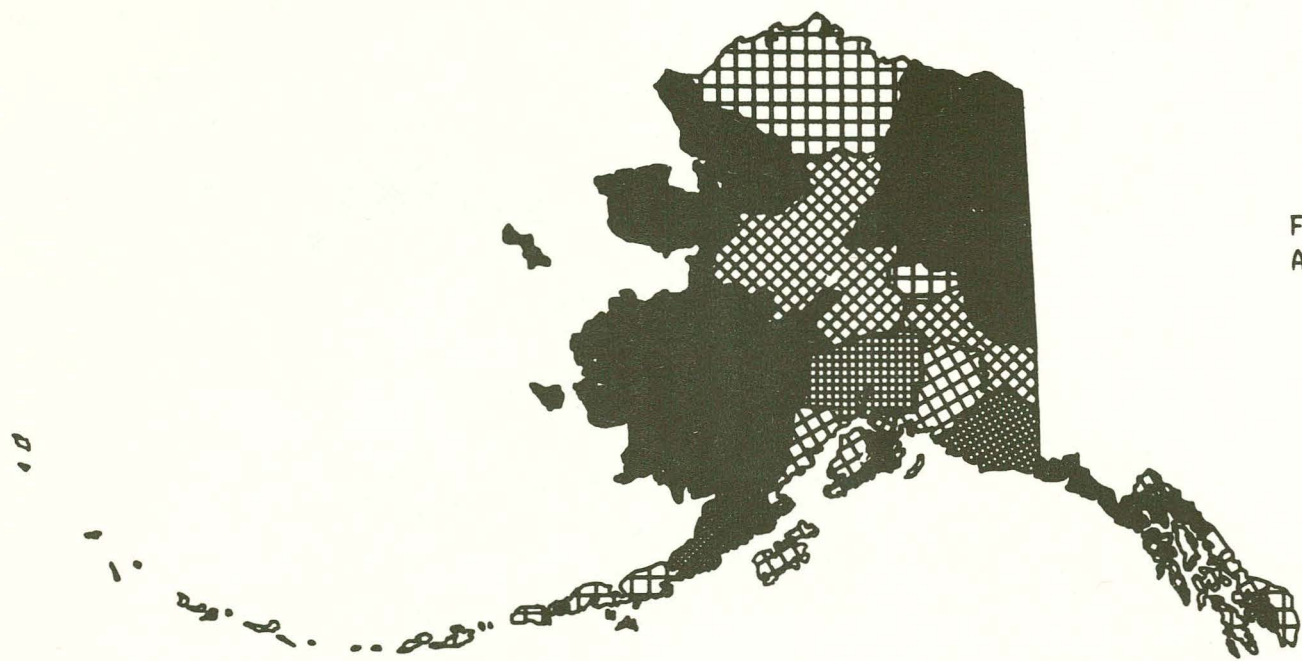


U.S. DEPARTMENT OF LABOR
MANPOWER ADMINISTRATION

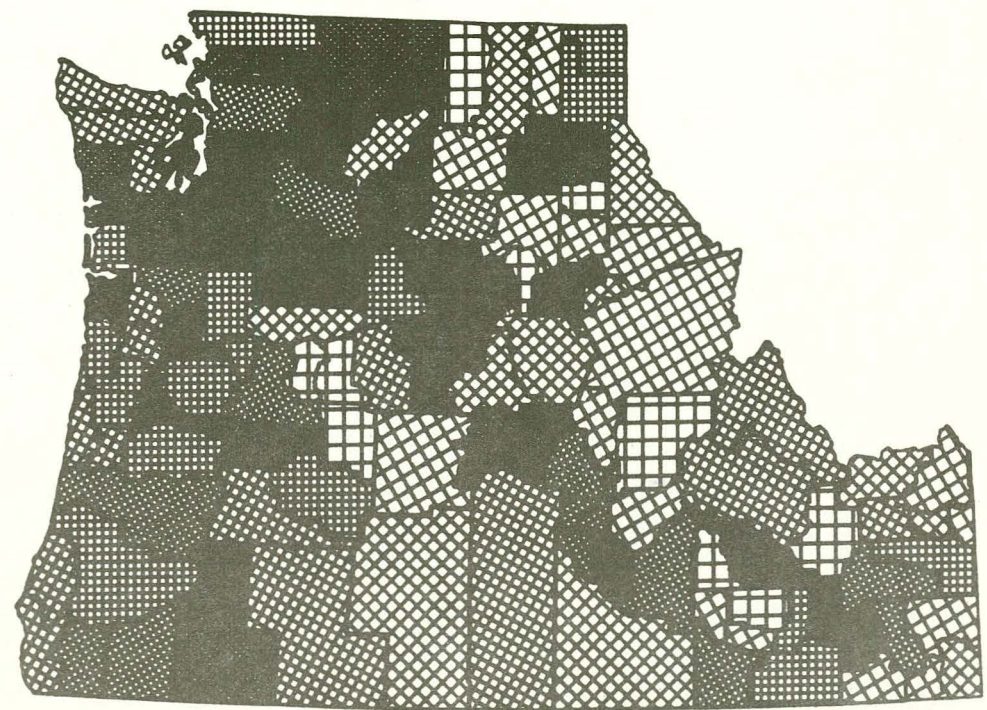
LAWRENCE BERKELEY LABORATORY
UNIVERSITY OF CALIFORNIA

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FEMALE FAMILY HEADS
AS PERCENT OF TOTAL
FAMILY HEADS



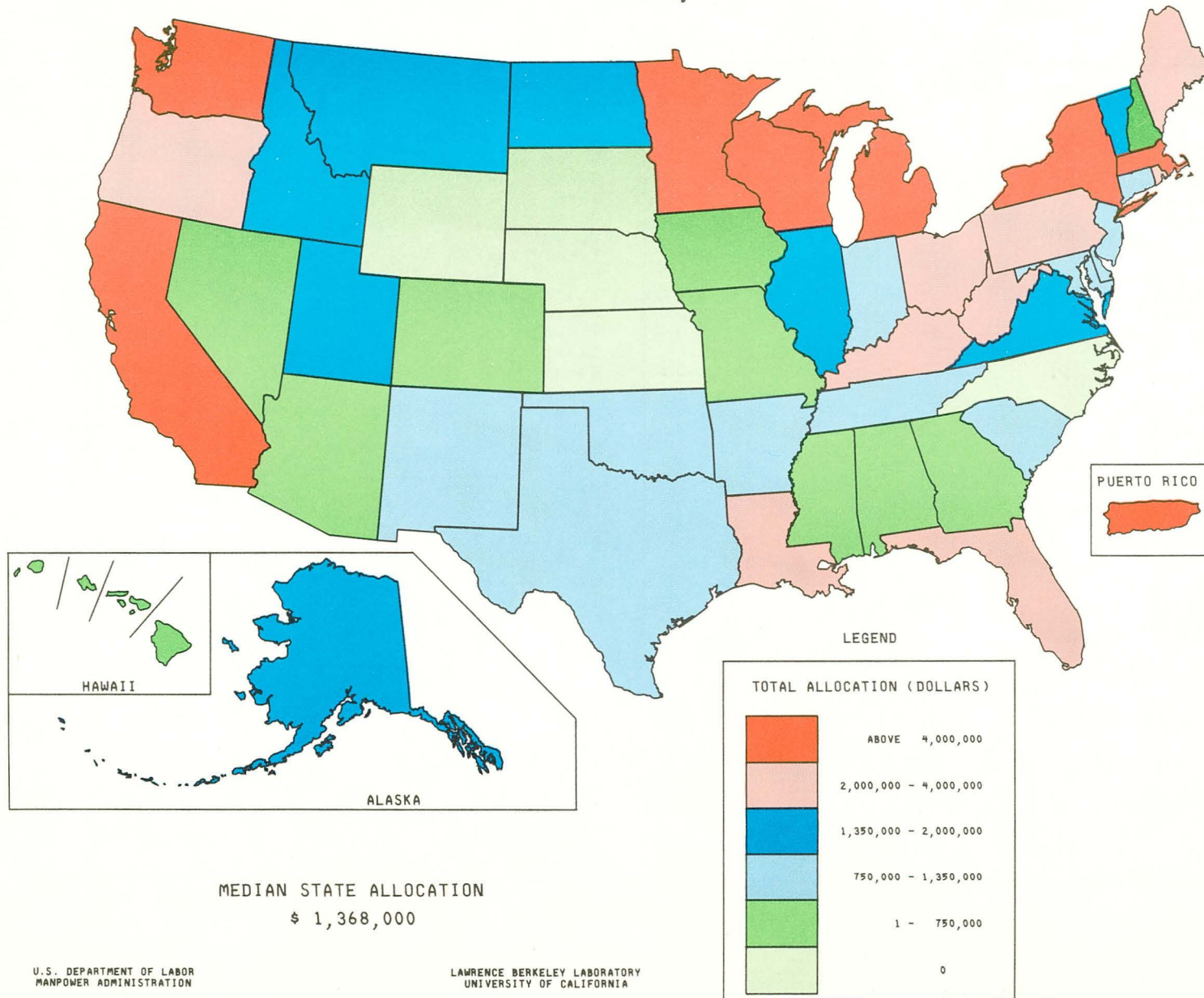
MAP 10



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

PAGE 4
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TABLE 2 - ALLOCATION OF STATE GOVERNMENT PORTION¹
 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

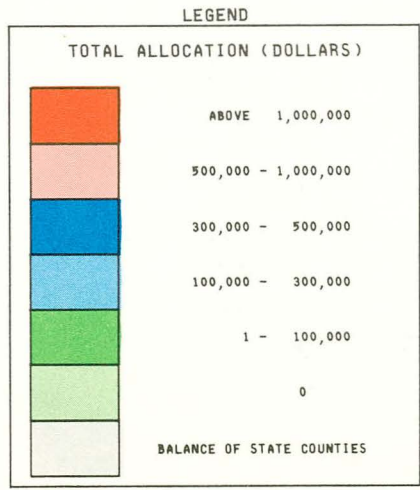
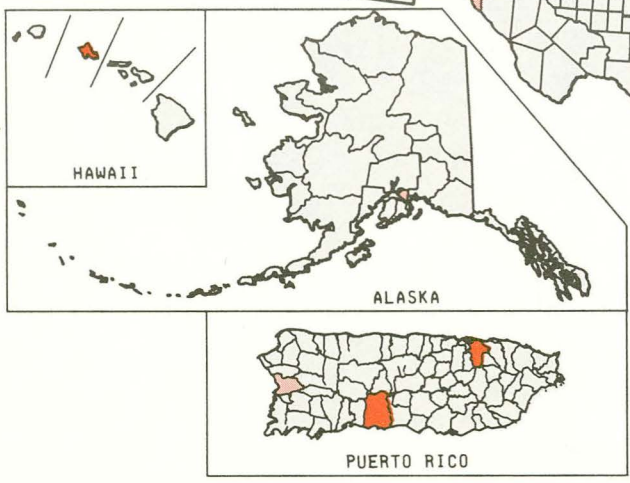
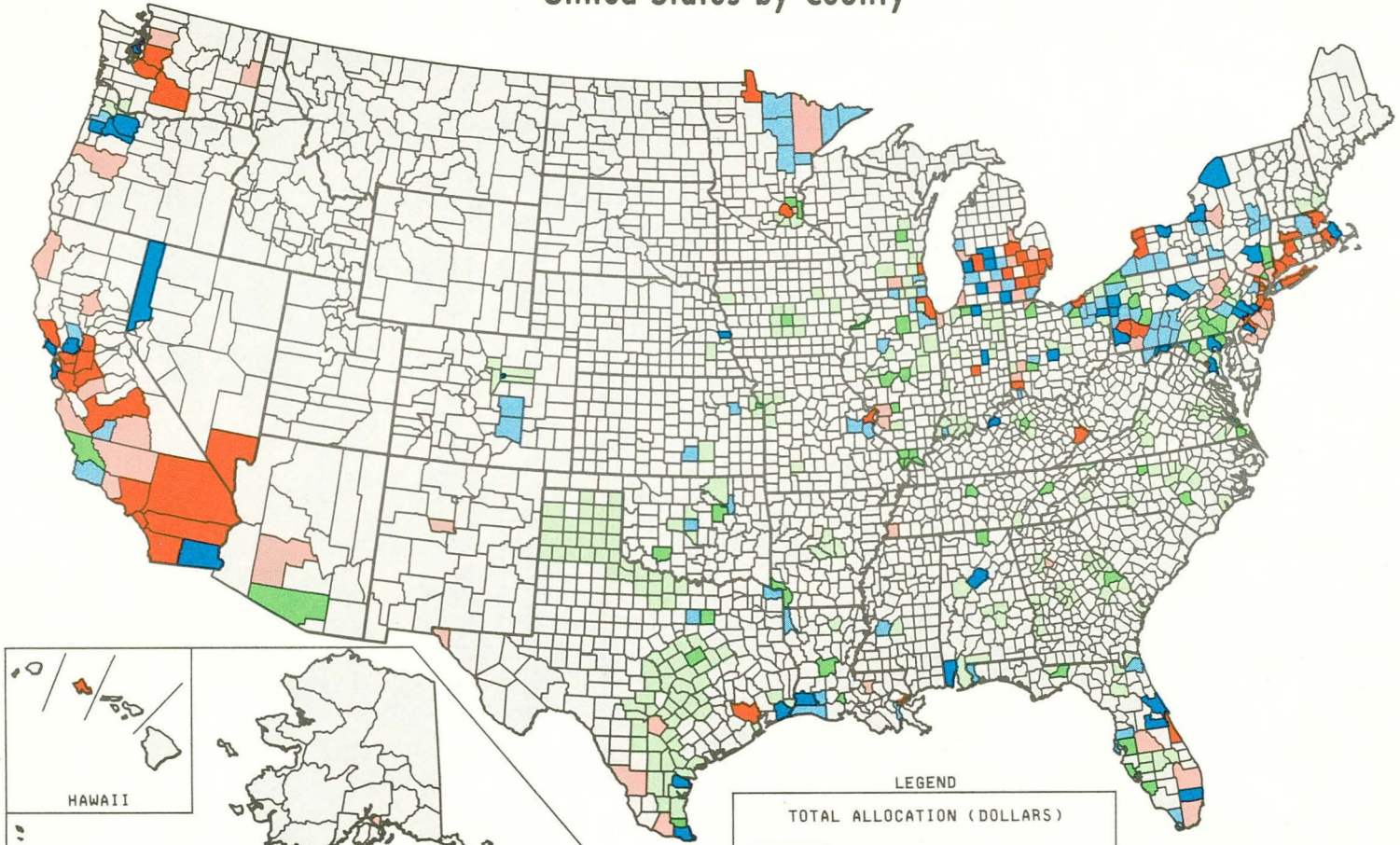
STATE	TOTAL ALLOCATION (DOLLARS)	STATE	TOTAL ALLOCATION (DOLLARS)
Alabama	479,465	New Hampshire	311,234
Alaska	1,842,989	New Jersey	1,019,144
Arizona	140,500	New Mexico	1,330,479
Arkansas	852,774	New York	5,576,351
California	5,212,978	North Carolina	0
Colorado	205,078	North Dakota	1,368,400
Connecticut	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



00004302050

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	STATE AND COUNTY	TOTAL ALLOCATION (DOLLARS)	PERCENT OF NATION	STATE AND COUNTY	TOTAL ALLOCATION (DOLLARS)	PERCENT OF NATION
UNITED STATES TOTAL	367,800,738	100.00	Statewide	1,266,312	.34	Grundy	0	.00
ALABAMA	1,339,610	.36	DISTRICT OF COLUMBIA	2,258,500	.61	Iroquois	0	.00
Autauga	0	.00	District Of Columbia	2,258,500	.61	Johnson	52,210	.01
Baldwin	0	.00	FLORIDA	8,982,431	2.44	Kene	121,600	.03
Elmore	0	.00	Alachua	0	.00	Lake	175,800	.05
Escambia	0	.00	Baker	0	.00	Lasalle	67,100	.02
Jefferson	421,471	.11	Brevard	1,286,721	.35	Mchenry	0	.00
Madison	95,275	.03	Broward	478,436	.13	Macon	61,400	.02
Mobile	343,397	.09	Dade	772,173	.21	Madison	787,203	.21
Montgomery	0	.00	De Soto	0	.00	Massac	52,210	.01
Tuscaloosa	0	.00	Duval	245,000	.07	Peoria	118,200	.03
Balance Of Alabama	479,465	.13	Escambia	102,300	.03	Platt	0	.00
ALASKA	2,615,641	.71	Gadsden	0	.00	Pulaski	52,210	.01
Anchorage Division	772,651	.21	Hardee	0	.00	Rock Island	76,600	.02
Balance Of Alaska	1,842,989	.50	Highlands	0	.00	St Clair	964,734	.26
ARIZONA	1,002,288	.27	Hillsborough	90,500	.02	Sangamon	58,500	.02
Maricopa	763,288	.21	Lee	56,900	.02	Tazewell	0	.00
Pima	98,500	.03	Leon	35,300	.01	Union	52,210	.01
Balance Of Arizona	140,500	.04	Monroe	147,100	.04	Washington	0	.00
ARKANSAS	971,574	.26	Monroe	147,100	.04	Will	229,900	.06
Faulkner	0	.00	Nassau	0	.00	Winnabago	137,900	.04
Little River	37,100	.01	Okeechobee	0	.00	Balance Of Illinois	1,379,359	.38
Lonoke	0	.00	Orange	427,100	.12	INDIANA	4,308,851	1.17
Miller	81,700	.02	Palm Beach	734,300	.20	Adams	0	.00
Pulaski	0	.00	Pasco	222,300	.06	Allen	0	.00
Saline	0	.00	Pinellas	118,300	.03	Blackford	0	.00
Balance Of Arkansas	852,774	.23	Polk	890,300	.24	De Kalb	0	.00
CALIFORNIA	64,769,428	17.61	Sarasota	52,600	.01	Delaware	0	.00
Alameda	4,877,670	1.33	Volusia	408,700	.11	Dubois	0	.00
Butte	680,703	.19	Balance Of Florida	2,914,400	.79	Elkhart	467,200	.13
Contra Costa	1,762,161	.48	GEORGIA	1,284,951	.35	Gibson	0	.00
Fresno	1,660,842	.45	Bibb	0	.00	Lagrange	0	.00
Humboldt	730,005	.20	Burke	80,300	.02	LaKe	500,300	.14
Imperial	388,857	.11	Chatham	0	.00	La Porte	0	.00
Kern	594,905	.16	Chattahoochee	0	.00	Madison	414,415	.11
Kings	176,483	.05	Clay	0	.00	Marion	1,525,872	.41
Los Angeles	20,086,364	5.46	Cobb	0	.00	Noble	0	.00
Merlin	485,600	.13	Columbia	0	.00	Perry	0	.00
Merced	512,005	.14	Crawford	0	.00	Pike	0	.00
Monterey	724,434	.20	De Kalb	931,298	.25	Posey	0	.00
Orange	1,769,800	.48	Emanuel	0	.00	St Joseph	49,200	.01
Riverside	1,353,925	.37	Fulton	0	.00	Spencer	0	.00
Sacramento	1,945,042	.53	Glascok	0	.00	Tippecanoe	0	.00
San Bernardino	2,376,363	.65	Harris	0	.00	Vanderburgh	130,300	.04
San Diego	6,829,161	1.86	Houston	0	.00	Vigo	0	.00
San Francisco	3,587,946	.98	Jefferson	0	.00	Warrick	0	.00
San Joaquin	1,346,328	.37	Jenkins	0	.00	Whitley	0	.00
San Luis Obispo	29,200	.01	Jones	0	.00	Balance Of Indiana	1,221,564	.33
San Mateo	485,200	.13	Lincoln	0	.00	IOWA	577,200	.16
Santa Barbara	277,600	.08	McDuffie	0	.00	Black Hawk	0	.00
Santa Clara	1,506,293	.41	Monroe	0	.00	Boone	0	.00
Santa Cruz	741,589	.20	Muscogee	0	.00	Dallas	0	.00
Solano	338,600	.09	Peach	0	.00	Jasper	0	.00
Sonoma	1,044,513	.28	Quitman	0	.00	Linn	0	.00
Stanislaus	1,704,636	.46	Randolph	0	.00	Madison	0	.00
Tulare	616,200	.17	Richmond	0	.00	Marion	0	.00
Ventura	644,600	.18	Screven	0	.00	Polk	82,900	.02
Yolo	279,409	.08	Stemart	0	.00	Scott	0	.00
Balance Of California	5,212,978	1.42	Talbot	0	.00	Story	0	.00
COLORADO	858,978	.23	Tallafarro	0	.00	Warren	0	.00
Adams	0	.00	Talgga	0	.00	Woodbury	0	.00
Arapahoe	0	.00	Warren	0	.00	Balance Of Iowa	494,300	.13
Boulder	0	.00	Wilkes	0	.00	KANSAS	355,800	.10
Denver	406,500	.11	Balance Of Georgia	273,353	.07	Butler	0	.00
El Paso	107,300	.03	HAWAII	2,817,732	.77	Johnson	0	.00
Jefferson	0	.00	Honolulu	2,079,382	.57	Leavenworth	0	.00
Fueblo	140,100	.04	Balance Of Hawaii	738,350	.20	Sedgwick	131,800	.04
Balance Of Colorado	205,078	.06	IDAHO	1,996,800	.54	Shawnee	134,800	.04
CONNECTICUT	5,829,029	1.58	Statewide [C]	1,996,800	.54	Wyandotte	89,200	.02
Fairfield	1,913,533	.52	ILLINOIS	9,268,145	2.52	Balance Of Kansas	0	.00
Hartford	1,674,439	.46	Alexander	52,210	.01	KENTUCKY	3,726,153	1.01
New Haven	1,472,056	.40	Bond	34,800	.01	Bourbon	0	.00
Tolland	0	.00	Boone	0	.00	Clark	0	.00
Balance Of Connecticut	769,000	.21	Cass	0	.00	Fayette	41,200	.01
DELAWARE	1,266,312	.34	Champaign	0	.00	Franklin	0	.00
			Cook	4,794,000	1.30	Jefferson	317,400	.09
			Du Page	0	.00	Jessamine	0	.00
			Ford	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	STATE AND COUNTY	TOTAL ALLOCATION (DOLLARS)	PERCENT OF NATION	STATE AND COUNTY	TOTAL ALLOCATION (DOLLARS)	PERCENT OF NATION
Rural Cep	1,000,296	.27	Koochiching	127,023	.03	Onondaga	273,900	.07
Scott	0	.00	Lake	127,023	.03	Orange	541,800	.15
Woodford	0	.00	Rassey	718,100	.20	Osage	326,605	.09
Balance Of Kentucky	2,236,856	.61	Rural Cep	1,558,570	.42	Putnam	51,050	.01
LOUISIANA	7,723,932	2.10	St Louis	970,324	.26	Rensselaer	141,400	.04
Caddo	173,849	.05	Scott	0	.00	Rockland	96,200	.03
Calcasieu	338,469	.09	Washington	30,300	.01	St Lawrence	416,117	.11
Cameron	126,400	.03	Balance Of Minnesota	4,793,023	1.30	Saratoga	118,700	.03
East Baton Rouge	613,880	.17	MISSISSIPPI	850,000	.23	Schenectady	125,100	.03
Jefferson	276,700	.08	Hinds	148,000	.04	Suffolk	1,229,700	.33
Jefferson Davis	126,400	.03	Rankin	0	.00	Ulster	355,200	.10
Lafayette	76,300	.02	Balance Of Mississippi	702,000	.19	Westchester	648,050	.18
Orleans	2,008,803	.55	MISSOURI	2,201,656	.60	Balance Of New York	5,576,351	1.52
Ouachita	0	.00	Cass	0	.00	NORTH CAROLINA	113,200	.03
Rapides	67,300	.02	Clay	0	.00	Buncombe	0	.00
Balance Of Louisiana	3,915,830	1.06	Franklin	143,200	.04	Chatham	0	.00
MAINE	2,771,077	.75	Greene	0	.00	Cumberland	28,200	.01
Balance Of Maine	2,771,077	.75	Jackson	0	.00	Durham	0	.00
MARYLAND	2,642,539	.72	Jefferson	260,900	.07	Forsyth	85,000	.02
Allegany	301,297	.08	Platte	0	.00	Gaston	0	.00
Anne Arundel	0	.00	Ray	0	.00	Guilford	0	.00
Baltimore	491,300	.13	St Louis	1,482,956	.40	Johnston	0	.00
Carroll	0	.00	Balance Of Missouri	314,600	.09	Lee	0	.00
Frederick	67,700	.02	MONTANA	1,860,200	.51	Mecklenburg	0	.00
Garrett	203,400	.06	Balance Of Montana	1,860,200	.51	Onslow	0	.00
Harford	27,100	.01	NEBRASKA	459,800	.13	Orange	0	.00
Howard	0	.00	Douglas	459,800	.13	Wake	0	.00
Montgomery	0	.00	Lancaster	0	.00	Balance Of North Carolina	0	.00
Prince Georges	398,376	.11	Sarpy	0	.00	NORTH DAKOTA	1,368,400	.37
Washington	244,000	.07	Balance Of Nebraska	0	.00	Balance Of North Dakota	1,368,400	.37
Balance Of Maryland	909,364	.25	NEVADA	2,049,406	.56	OHIO	12,027,601	3.27
MASSACHUSETTS	19,965,140	5.43	Clark	1,135,347	.31	Ashtabula	0	.00
Bristol	1,038,068	.28	Washoe	440,300	.12	Butler	514,000	.14
Hampden	1,489,377	.40	Balance Of Nevada	473,759	.13	Clerk	209,820	.06
Middlesex	2,691,985	.73	NEW HAMPSHIRE	311,234	.08	Columbiana	0	.00
Plymouth	407,983	.11	Hillsborough	0	.00	Cuyahoga	33,321,148	9.06
Suffolk	3,234,603	.88	Rockingham	0	.00	Delaware	0	.00
Worcester	253,938	.07	Stratford	0	.00	Franklin	428,100	.12
Balance Of Massachusetts	10,849,185	2.95	Balance Of New Hampshire	311,234	.08	Geauga	0	.00
MICHIGAN	42,391,110	11.53	NEW JERSEY	18,457,128	5.02	Greene	31,800	.01
Allagan	253,326	.07	Atlantic	888,419	.24	Hamilton	1,334,974	.36
Bay	624,883	.17	Bergen	602,478	.16	Lake	0	.00
Berrien	816,042	.22	Burlington	779,100	.21	Licking	0	.00
Calhoun	509,450	.14	Camden	1,356,700	.37	Lorain	173,400	.05
Clinton	145,050	.04	Cumberland	702,005	.19	Lucas	908,200	.25
Eaton	145,050	.04	Essex	2,992,739	.81	Mahoning	476,300	.13
Genesee	4,237,783	1.15	Gloucester	477,600	.13	Medina	32,600	.01
Hillsdale	319,700	.09	Hudson	3,033,866	.82	Montgomery	886,157	.24
Ingham	1,161,832	.32	Mercer	465,709	.13	Portage	192,200	.05
Ironia	391,776	.11	Middlesex	1,217,800	.33	Preble	0	.00
Jackson	119,900	.03	Monmouth	1,157,100	.31	Stark	207,500	.06
Kalamazoo	344,762	.09	Morris	169,900	.05	Summit	268,500	.07
Kent	1,797,777	.49	Ocean	777,124	.21	Trumbull	243,800	.07
Lapeer	597,099	.16	Passaic	2,295,540	.62	Wayne	58,200	.02
Lenawee	603,186	.16	Somerset	0	.00	Balance Of Ohio	2,741,000	.75
Macomb	1,943,238	.53	Union	521,900	.14	OKLAHOMA	1,510,787	.41
Monroe	273,600	.07	Balance Of New Jersey	1,019,144	.28	Canadian	0	.00
Montcalm	391,776	.11	NEW MEXICO	1,858,594	.51	Cleveland	0	.00
Muskegon	664,813	.18	Bernalillo	528,114	.14	Comanche	83,000	.02
Oakland	3,637,669	.99	Balance Of New Mexico	1,330,479	.36	Creek	27,700	.01
Oceano	100,450	.03	NEW YORK	37,571,226	10.22	Logan	0	.00
Ottawa	449,670	.12	Albany	138,800	.04	OKlahoma	257,533	.07
Saginaw	1,153,416	.31	Allegany	126,000	.03	Osage	0	.00
St Clair	1,007,012	.27	Broome	152,400	.04	Tulsa	195,500	.05
Shiawassee	964,425	.26	Cattaraugus	126,000	.03	Balance Of Oklahoma	947,054	.26
Washtenaw	1,072,560	.29	Chautauqus	126,000	.03	OREGON	4,675,185	1.27
Wayne	13,818,883	3.76	Chemung	223,300	.06	Clackamas	482,698	.13
Balance Of Michigan	4,845,776	1.32	Dutchess	73,400	.02	Lane	686,349	.19
MINNESOTA	10,128,462	2.75	Erle	4,635,282	1.26	Marion	326,675	.09
Aitkin	127,023	.03	Monroe	395,573	.11	Multnomah	0	.00
Anoka	47,600	.01	Nassau	262,000	.07	Polk	467,422	.13
Carlton	127,023	.03	New York	19,540,226	5.31	Washington	0	.00
Carver	0	.00	Niagara	1,250,575	.34	Yamhill	167,748	.05
Cook	127,023	.03	Oneida	621,494	.17	Balance Of Oregon	2,544,293	.69
Dakota	0	.00	NEW YORK	37,571,226	10.22	PENNSYLVANIA	20,414,396	5.55
Hennepin	1,248,400	.34	Albany	126,000	.03	Allegheny	2,639,440	.72
Itasca	127,023	.03	Broome	152,400	.04			

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

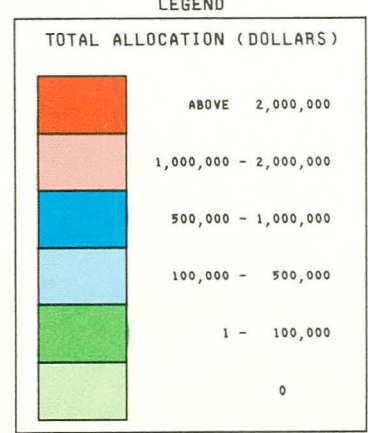
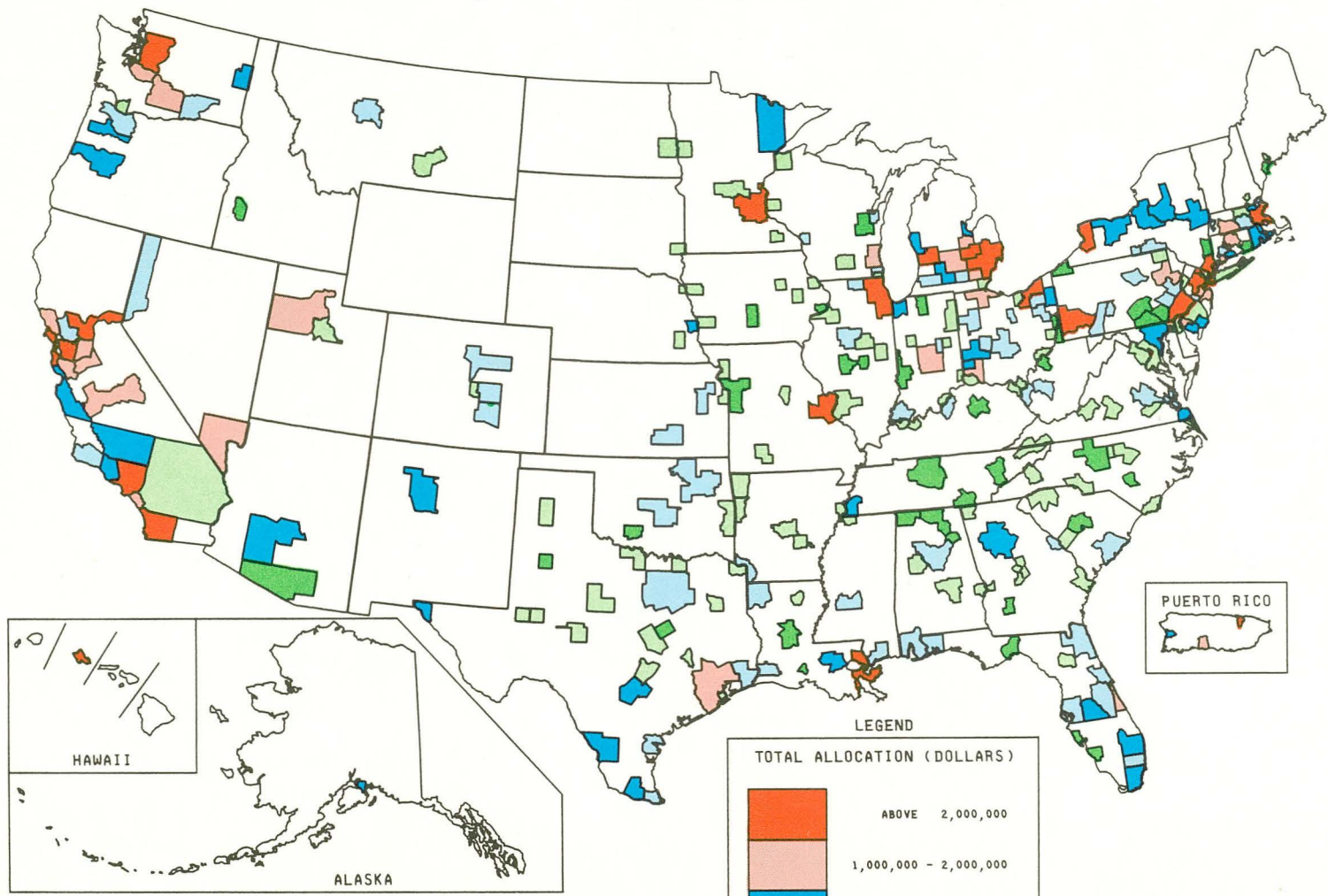
U S DEPARTMENT OF LABOR
MANPOWER ADMINISTRATION

UNITED STATES BY COUNTY

LAWRENCE BERKELEY LABORATORY
UNIVERSITY OF CALIFORNIA

STATE AND COUNTY	TOTAL ALLOCATION (DOLLARS)	PERCENT OF NATION	STATE AND COUNTY	TOTAL ALLOCATION (DOLLARS)	PERCENT OF NATION	STATE AND COUNTY	TOTAL ALLOCATION (DOLLARS)	PERCENT OF NATION
Armstrong	125,024	.03	Clay	0	.00	Botetourt	0	.00
Beaver	194,400	.05	Collingsworth	0	.00	Chesterfield	0	.00
Bedford	292,334	.08	Comal	0	.00	Craig	0	.00
Berks	110,130	.03	Coryell	0	.00	Franklin	0	.00
Blair	159,840	.04	Cottle	0	.00	Goodland	0	.00
Bucks	420,636	.11	Dallas	47,600	.01	Hanover	0	.00
Butler	124,000	.03	Deaf Smith	0	.00	Henrico	0	.00
Cambria	109,145	.03	Donley	0	.00	Isle Of Wright	0	.00
Carbon	81,500	.02	Duval	0	.00	James City	0	.00
Chester	0	.00	El Paso	600,300	.16	New Kent	0	.00
Clarion	95,900	.03	Falls	0	.00	Powhatan	0	.00
Clinton	384,432	.10	Fayette	0	.00	Prince William	0	.00
Crawford	210,300	.06	Foard	0	.00	Roanoke	0	.00
Cumberland	0	.00	Freestone	0	.00	Southampton	0	.00
Dauphin	41,200	.01	Frisco	0	.00	York	0	.00
Dallas	505,666	.14	Galveston	0	.00	Alexandria [Ind City]	421,756	.11
Erle	37,600	.01	Gillespie	0	.00	Chesapeake [Ind City]	53,300	.01
Fayette	528,009	.14	Gray	0	.00	Clifton Forge [Ind City]	0	.00
Forest	0	.00	Guadalupe	0	.00	Covington [Ind City]	0	.00
Franklin	0	.00	Hall	0	.00	Fairfax [Ind City]	0	.00
Fulton	292,334	.08	Hamilton	0	.00	Hampton [Ind City]	91,500	.02
Huntingdon	292,334	.08	Hansford	0	.00	Newport News [Ind City]	228,004	.06
Indiana	71,300	.02	Hardeman	0	.00	Norfolk [Ind City]	485,810	.13
Lackawanna	772,497	.21	Hardin	0	.00	Portsmouth [Ind City]	244,658	.07
Lancaster	76,979	.02	Harris	1,146,500	.31	Richmond [Ind City]	246,282	.07
Lawrence	347,046	.09	Hartley	0	.00	Roanoke [Ind City]	0	.00
Lebanon	0	.00	Hays	0	.00	Salem [Ind City]	0	.00
Lehigh	0	.00	Hepphill	0	.00	Suffolk [Ind City]	126,900	.03
Luzerne	896,221	.24	Hidalgo	813,172	.22	Virginia Beach [Ind City]	0	.00
Lycoming	111,277	.03	Hill	0	.00	Williamsburg [Ind City]	0	.00
Mercer	365,847	.10	Hutchinson	0	.00	Balance Of Virginia	1,779,814	.48
Montgomery	327,600	.09	Jack	0	.00	WASHINGTON	14,097,201	3.83
Northampton	0	.00	Jefferson	308,500	.08	Clark	0	.00
Perry	0	.00	Jim Wells	0	.00	King	3,791,618	1.03
Philadelphia	6,327,164	1.72	Karnes	0	.00	Kings	421,756	.11
Philadeilphia	612,966	.17	Kendall	0	.00	Pierce	1,562,304	.42
Schuylkill	248,701	.07	Kenedy	0	.00	Snohomish	982,244	.27
Somerset	0	.00	Kerr	0	.00	Spokane	997,294	.27
Vanango	0	.00	Kieberg	0	.00	Yakima	1,020,515	.28
Warren	0	.00	Lampses	0	.00	Balance Of Washington	5,321,565	1.45
Washington	337,365	.09	Lee	0	.00	WEST VIRGINIA	3,261,649	.89
Westmoreland	1,183,483	.32	Limestone	0	.00	Statewide [C]	3,261,649	.89
York	40,000	.01	Lipscomb	0	.00	WISCONSIN	6,926,912	1.88
Balance Of Pennsylvania	2,049,722	.56	Live Oak	0	.00	Dane	0	.00
RHODE ISLAND	2,688,691	.73	Llano	0	.00	Fond Du Lac	0	.00
Providence	649,804	.18	McLennan	63,500	.02	Kenosha	0	.00
Balance Of Rhode Island	2,038,887	.55	McCaullen	0	.00	Milwaukee	1,713,300	.47
SOUTH CAROLINA	1,200,383	.33	Medina	0	.00	Outagamie	0	.00
Statewide [C]	1,200,383	.33	Milam	0	.00	Ozaukee	0	.00
SOUTH DAKOTA	0	.00	Mills	0	.00	Recine	108,792	.03
Balance Of South Dakota	0	.00	Montague	0	.00	Rock	555,300	.15
TENNESSEE	2,060,732	.56	Nueces	384,000	.10	Walworth	0	.00
Davidson	67,200	.02	Oldham	0	.00	Washington	0	.00
Hamilton	0	.00	Orange	0	.00	Waukesha	0	.00
Knox	33,700	.01	Parmer	0	.00	Winnebago	53,000	.01
Shelby	625,500	.17	Potter	0	.00	Balance Of Wisconsin	4,496,520	1.22
Sullivan	0	.00	Randall	0	.00	WYOMING	0	.00
Balance Of Tennessee	1,334,332	.36	Refugio	0	.00	Balance Of Wyoming	0	.00
TEXAS	6,424,732	1.75	Roberts	0	.00	PUERTO RICO	16,376,891	4.45
Aransas	0	.00	San Patricio	0	.00	Mayaguez Municipio	622,156	.17
Archer	0	.00	San Saba	0	.00	Ponce Municipio	1,475,106	.40
Armstrong	0	.00	Salsher	0	.00	San Juan Municipio	3,601,929	.98
Atascosa	0	.00	Tarrant	186,600	.05	Balance Of Puerto Rico	10,677,698	2.90
Bandera	0	.00	Travis	0	.00	A.SAMOA-GUAM-TRUST TERRITORIES	345,300	.09
Bastrop	0	.00	Webb	594,858	.16	VIRGIN ISLANDS	246,700	.07
Baylor	0	.00	Wheeler	0	.00	INDIAN RESERVATIONS	1,855,000	.50
Bea	0	.00	Wichita	0	.00			
Bell	0	.00	Wilbarger	0	.00			
Bexar	726,000	.20	Willacy	25,200	.01			
Bosque	0	.00	Willason	0	.00			
Bowie	202,558	.06	Wilson	0	.00			
Briscoe	0	.00	Young	0	.00			
Brooks	0	.00	Balance Of Texas	914,039	.25			
Burnet	0	.00	UTAH	1,854,100	.50			
Caldwell	0	.00	Statewide [C]	1,854,100	.50			
Cameron	411,902	.11	VERMONT	1,552,279	.42			
Carson	0	.00	Balance Of Vermont	1,552,279	.42			
Castro	0	.00	VIRGINIA	3,329,672	.91			
Childress	0	.00	Alleghany	0	.00			
			Arlington	73,400	.02			

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

00004302052

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	SMSA	TOTAL ALLOCATION (DOLLARS)	PERCENT OF NATION	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	Omaha, Nebr-Iowa	989,400	.39	Macon, Ga.	0	.00
Los Angeles-Long Beach, Ca.	20,086,364	8.00	Grand Rapids, Mich.	2,247,447	.89	Hamilton-Middletown, Ohio	514,000	.20
Chicago, Ill.	5,321,300	2.12	Youngstown-Warren, Ohio	720,100	.29	Montgomery, Ala.	0	.00
Philadelphia, Pa-Nj.	10,194,466	4.06	Flint, Mich.	5,202,208	2.07	Poughkeepsie, Ny.	73,400	.03
Detroit, Mich.	20,976,401	8.35	Wilmington, Del.- Nj Mo.	1,256,312	.50	Saginaw Mich.	1,153,416	.46
San Francisco-Oakland, Ca.	11,198,577	4.46	Greenville-Spartanburg, Sc.	0	.00	Lowell, Mass-Nh.	591,800	.24
Washington, Dc-Md-Va.	2,730,276	1.09	Paterson-Clifton-Passaic, Nj.	2,295,540	.91	Waterbury, Conn.	320,100	.13
Boston, Mass	5,980,673	2.38	Long Branch-Asbury Park, Nj.	1,157,100	.46	Eugene-Springfield, Oreg.	686,349	.27
Massau- Suffolk Ny.	1,491,700	.59	Orlando, Fla.	427,100	.17	Fayetteville, Nc.	22,200	.01
St. Louis Mo-Ill.	3,871,993	1.54	Lansing-East Lansing, Mich.	1,843,708	.73	Lima, Ohio	191,400	.08
Pittsburg, Pa.	4,354,688	1.73	Raleigh-Durham, Nc.	0	.00	Savannah, Ga.	0	.00
Dallas-Fort Worth, Tex.	234,200	.09	New Haven-West Haven, Conn.	685,317	.27	Stanford, Conn.	290,500	.12
Baltimore, Md.	518,400	.21	Fresno, Ca.	1,660,842	.66	Santa Rosa, Ca.	1,044,513	.42
Cleveland, Ohio	3,353,748	1.34	Tacoma, Wash.	1,562,304	.62	Roanoke, Va.	0	.00
Newark, Nj.	3,684,539	1.47	Harrisburg Pa.	41,200	.02	Modesto, Ca.	1,704,636	.68
Houston Tex.	1,146,500	.46				Springfield, Ohio	209,820	.08
Minneapolis-St Paul, Minn-Wis.	2,044,400	.81				Salem, Oreg.	794,097	.32
Atlanta Ga.	931,298	.37				Wheeling, W.Va-Ohio	37,533	.01
Seattle Everett Wash.	4,773,862	1.90				McAllen Pharr-Edinburg, Tex.	813,172	.32
Anaheim-St Ana-Garden Grove, Ca	1,769,800	.70				Topeka, Kans.	134,800	.05
Milwaukee, Wis.	1,713,300	.68				Battle Creek, Mich.	509,450	.20
Cincinnati, Ohio-Ky-Ind.	1,630,224	.65				Lubbock, Tex.	27,200	.01
San Diego, Ca.	6,829,161	2.72				Muskegon-Muskegon Heights, Mich	765,463	.30
Buffalo, Ny.	5,885,857	2.34				Terre Haute, Ind.	43,900	.02
Kansas City, Mo-Kansas	89,200	.04				Atlantic City, Nj.	888,419	.35
Miami, Fla.	772,173	.31				Springfield, Ill.	58,500	.02
Denver-Boulder, Colo.	406,500	.16				Racine, Wis.	108,792	.04
Riverside-San Bern-Ontario, Ca.	3,730,288	1.49				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
						Staubenville-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
						Bronxville-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
						White 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
						Ablene Tex	0	.00
						Vineand-Milville-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

00004302053

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

PAGE 11
RUN DATE 03/01/75

U.S. DEPARTMENT OF LABOR
MANPOWER ADMINISTRATION

UNITED STATES BY STANDARD METROPOLITAN STATISTICAL AREA

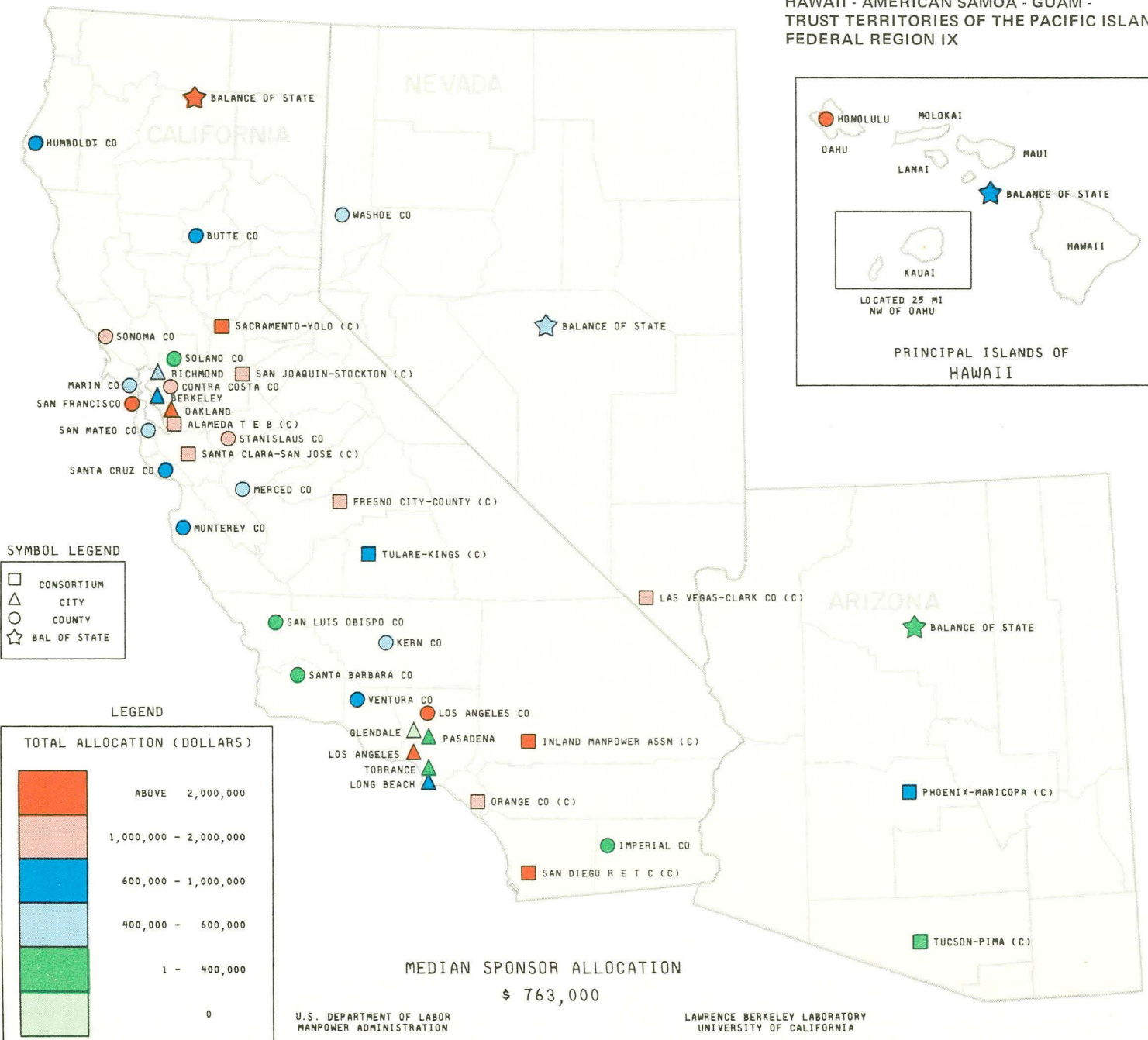
LAWRENCE BERKELEY LABORATORY
UNIVERSITY OF CALIFORNIA

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-Kennebec, 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
Graaf 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



00004302054

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

RUN DATE 12/13/79

U.S. DEPARTMENT OF LABOR
MANPOWER ADMINISTRATION

REGION IX BY PRIME SPONSOR

LAWRENCE BERKELEY LABORATORY
UNIVERSITY OF CALIFORNIA

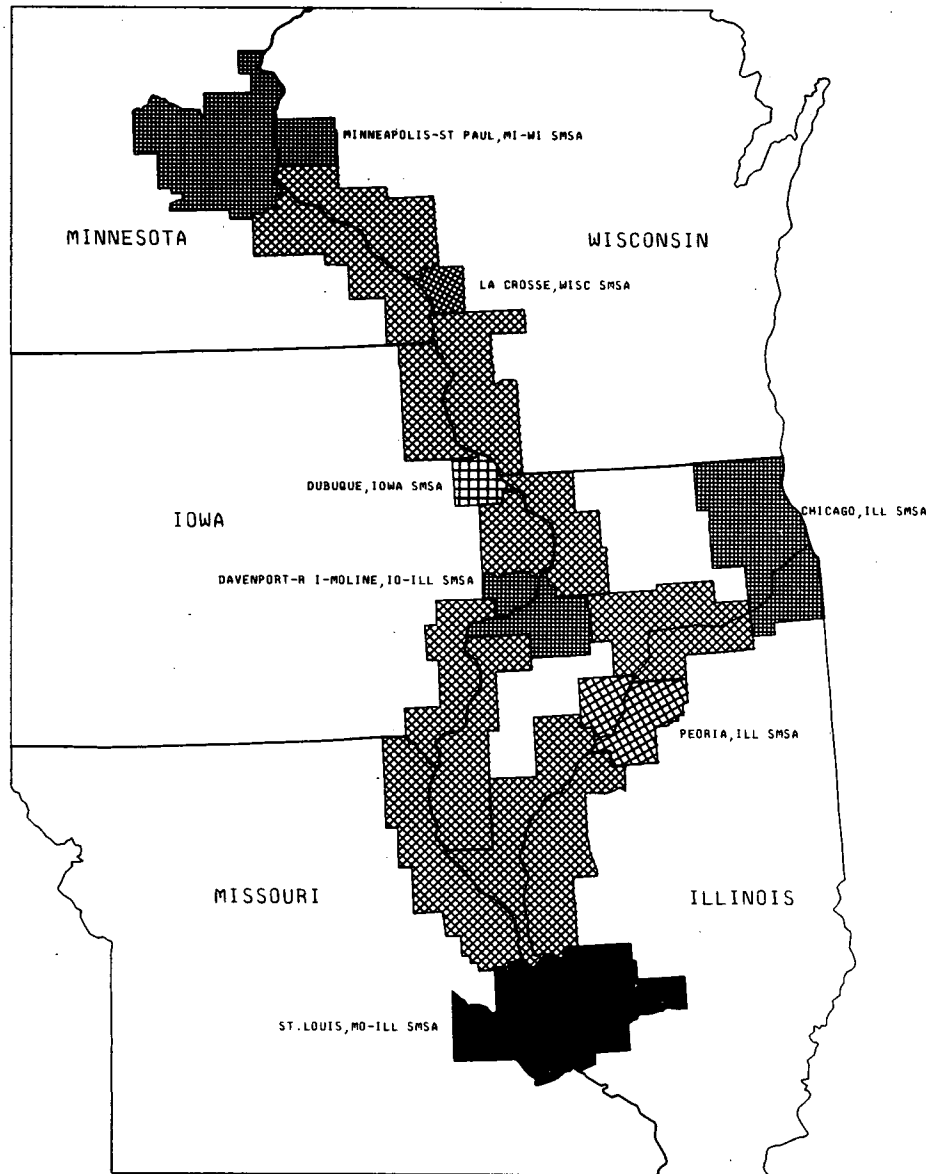
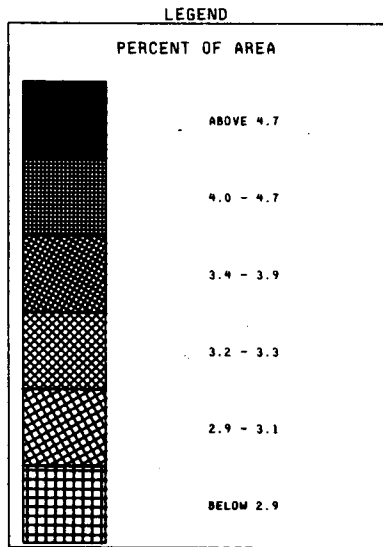
PRIME SPONSOR	TOTAL ALLOCATION OF (DOLLARS)	PERCENT OF REGION	PRIME SPONSOR	TOTAL ALLOCATION OF (DOLLARS)	PERCENT OF REGION
REGION IX	70,984,153	100.00	Merced Co	512,005	.72
ARIZONA	1,002,288	1.41	Monterey Co	724,434	1.02
Phoenix-Maricopa [C]	763,288	1.08	Oakland	2,233,139	3.15
Tucson-Pima [C]	98,500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

MEDIAN ALLOCATION BY PRIME SPONSOR \$ 763,000

MEAN ALLOCATION BY PRIME SPONSOR \$ 1,571,000

SOCIO-ECONOMIC STUDY
LOCK AND DAM 26
UPPER MISSISSIPPI RIVER
AND
ILLINOIS RIVER

1970 CENSUS OF POPULATION



00004302055

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TECHNICAL INFORMATION DIVISION
LAWRENCE BERKELEY LABORATORY
UNIVERSITY OF CALIFORNIA
BERKELEY, CALIFORNIA 94720