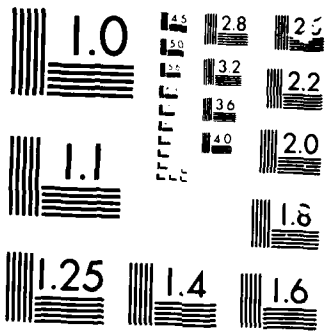
AD-A168 917 A USER'S GUIDE TO THE SOCIOECONOMIC ENVIRONMENTAL DEMOGRAPHIC INFORMATION SYSTEM (SEEDIS)(U) CALIFORNIA UNIV BERKELEY LAWRENCE BERKELEY LAB F C GEY JAN 86 1/2

UNCLASSIFIED IWR-86-UM-1 F/G 5/3 NL



MICROCOPY

US Army Corps
of Engineers
Engineer Institute for
Water Resources

DTIC
ELECTE
JUN 23 1986
S D
D

(12)

AD-A168 917

A User's Guide to the Socioeconomic Environmental Demographic Information System (SEEDIS)

DTIC FILE COPY

IWR User's Manual 86-UM-1

January 1986

UNCLASSIFIED

SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

REPORT DOCUMENTATION PAGE

READ INSTRUCTIONS BEFORE COMPLETING FORM

1 REPORT NUMBER
User's Manual 86-UM-1

2 GOVT ACCESSION NO.
ADA 168917

3 RECIPIENT'S CATALOG NUMBER

4 TITLE (and Subtitle)
A User's Guide to the Socioeconomic Environmental Demographic Information System (SEEDIS)

5 TYPE OF REPORT & PERIOD COVERED

6 PERFORMING ORG. REPORT NUMBER
86-UM-1

7 AUTHOR(s)
Fredic C. Gey

8 CONTRACT OR GRANT NUMBER(s)

9 PERFORMING ORGANIZATION NAME AND ADDRESS
Computer Science Research Department
Lawrence Berkeley Laboratory
Berkeley, CA 94720

10 PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS

11 CONTROLLING OFFICE NAME AND ADDRESS
U.S. Army Corps of Engineers
Water Resources Support Center, Institute for Water Resources, Casey Bldg., Ft. Belvoir, VA

12 REPORT DATE
January 1986

13 NUMBER OF PAGES
136

14 MONITORING AGENCY NAME & ADDRESS (if different from Controlling Office)

15 SECURITY CLASS (of this report)
Unclassified

15a DECLASSIFICATION/DOWNGRADING SCHEDULE

16 DISTRIBUTION STATEMENT (of this Report)
Unlimited

17 DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report)

18 SUPPLEMENTARY NOTES

19 KEY WORDS (Continue on reverse side if necessary and identify by block number)
Socioeconomic Data, Planning Data, Water Resources Planning

20 ABSTRACT (Continue on reverse side if necessary and identify by block number)

This manual provides information on accessing the SEEDIS Database. Procedures for specifying geographic areas and identifying, selecting and displaying socioeconomic data are described. Special features of the system allowing interface with microcomputers are presented.

DD FORM 1 JAN 73 1473 EDITION OF 1 NOV 65 IS OBSOLETE

UNCLASSIFIED

SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

A USER'S GUIDE TO THE SOCIOECONOMIC ENVIRONMENTAL DEMOGRAPHIC INFORMATION SYSTEM (SEEDIS)

by

Fredic C. Gey

Computer Science Research Department
Lawrence Berkeley Laboratory
Berkeley, CA 94720

for

U.S. Army Corps of Engineers
Water Resources Support Center
Institute for Water Resources
Casey Building
Ft. Belvoir, VA 22060-5586

January 1986

User's Manual 86-UM-1

FOREWORD

Since 1973 the Corps of Engineers has funded the development of a computerized data base to provide Corps planners with access to socioeconomic data. Originally designated as SIRAP (for System of Information Retrieval and Analysis for Planners), the data base became integrated into a larger data base system designated as SEEDIS (for Socio Economic Environmental Demographic Information System). SEEDIS has been developed at the Lawrence Berkeley Laboratory of the University of California with funds provided by the Departments of Labor and Energy and the Corps of Engineers. Since 1978 the Institute for Water Resources (IWR) has managed the continued development of SEEDIS for the Corps of Engineers. Under IWR management the system has evolved from a batch oriented system to an interactive on-line information retrieval system where users in FOAs can directly retrieve information from the computer and can download the information in forms usable by microcomputer spreadsheet and statistical analysis programs.

Currently SEEDIS provides the following features:

Data access and retrieval of more than 50,000 items for each county.

Data access and retrieval of 1000 census items for each subcounty area (census tract or enumeration district/block group)

Facilities to create graphic displays, including bar charts, pie graphs and thematic maps.

Facilities for downloading of data files to micro computers in formats readable by spreadsheet and statistical analysis programs.

This manual is designed to provide an introduction to SEEDIS for Corps users. It provides information which can enable first time users to successfully obtain data they need. The manual also provides details on accessing and using more advanced features of the data base.

Accesion For
NTIS CRA&I ☑
DTIC TAB ☐
Unannounced ☐
Justification
By
Distribution /
Availability Codes
Dist | Avail and / or Special
A-1

Page	CONTENTS
BEGINNING SEEDIS	
1	INTRODUCTION
1	What is SEEDIS?
1	How this manual is organized
2	Logging on to VAX 11/780
3	Correcting typing errors
4	The structure of SEEDIS
5	Accessing SEEDIS
6	AREA SELECTION
7	PROFILE REPORTS on selected areas
8	1974 Census of Agriculture
9	1947-1977 County Data Book
11	1980 Census STF1
12	1980 Census STF3
13	DATA SELECTION
13	Selecting a data base catalogue
15,16	Selecting data from the county data book
17	Selecting data from the 1980 Census
19	Data extraction
20	DATA DISPLAY - Reports, Charts and Maps
20	Tabular display of data values
22	Chart making
25	Mapping
26	ENDING A SEEDIS SESSION
INTERMEDIATE SEEDIS	
27	Scheduling SEEDIS Disk Packs
29	NEWDATA - Entering new data into SEEDIS work files
33	COMPUTATION USING CHART
38	TRANSFORMING SEEDIS WORK FILES (SPSS, SAS, DIF)
46	MICROCOMPUTER DOWNLOADING USING KERMIT
49	SMALL AREA SELECTION - CITIES AND TOWNS
Appendix A - PROFILE EXAMPLES	
Appendix B - SMALL AREA RETRIEVAL - Census Tracts	
	Not Available Pending SEEDIS System Changes
Appendix C - COUNTY DATA BOOK DICTIONARY	

Introduction

This document is intended to be an introduction to SEEDIS for those users who have never been exposed to a data retrieval or storage program. It explains many of the capabilities of SEEDIS, in particular those tasks which the new user will need to get started. The aims of this document are to help a new user to run SEEDIS successfully on his or her first attempt, to serve as a reference for the infrequent user of SEEDIS, and to motivate further self-education in the more advanced features of SEEDIS.

What is SEEDIS?

SEEDIS, the Lawrence Berkeley Laboratory's Socio-Economic Environmental-Demographic Information system, is an integrated information system for retrieving, analyzing, and displaying selected portions of large data bases. These include a wide variety of geographically linked data on the United States' population, economy, agriculture, employment, mortality, air quality, and energy production and use.

For Corps of Engineers' planners, SEEDIS is primarily useful for obtaining demographic and socioeconomic data for economic base studies, social profiles and other plan formulation and evaluation tasks. Using SEEDIS Corps' analysts can:

- Access and retrieve over 50,000 pieces of information at county levels of detail and over 1,000 pieces of data for sub-county levels of geography, including Minor Civil Divisions, Census Tracts, and Enumeration District-Block Groups.
- Transform SEEDIS data into formats useable by statistical analysis programs (SPSS and SAS) as well as by popular microcomputer spreadsheet programs (e.g. LOTUS 1-2-3).
- Download SEEDIS files or transformed files to microcomputers using communications software.

How This Manual is Organized

The various sections of this manual guide a SEEDIS user on a step-by-step tour through the elements of SEEDIS. This journey is illustrated by example screens, each of which builds upon previous ones. The examples focus on a three county geographic area (the Topeka Kansas SMSA) and on data from the 1947-1977 County Data Book and 1980 Census summary tape files. In all of the following examples, requests typed by the user are shown in **boldface** while responses or messages typed by the SEEDIS system remain in pale face.

The first 26 pages of the manual constitute a novice user's introduction to SEEDIS and are hence sectioned **BEGINNING SEEDIS** in the table of contents, while the remainder of the manual takes the user into more depth on aspects of SEEDIS and may be rightfully called **INTERMEDIATE SEEDIS**.

Logging on to the VAX 11/780 Computer

After connecting the terminal to the computer, either by phone lines or through a terminal already directly connected to the computer, do the following:

1. Hit the carriage return key one or more times
2. This will elicit the request for your name and password.

There may or may not be a 'message of the day' printed at this point. These messages describe possible events to occur during the day (times when the machine will be down, or available on a limited basis), or announce system changes or additions. Following the message you will be given the system prompt, **$**. This is your cue that the machine is now ready to receive input from your terminal. You can start SEEDIS by typing **seedis**.

```
                LBLH - CSR VMS Network VAX

user types      Username: ARMYCORPS
name and        Password:
password                We.come to LBLH - CSR VMS V4.2 VAX 11/780

                    Last Interactive login on Wednesday,  4-DEC-1985 12.51
                    Last non-Interactive login on Wednesday, 20-NOV-1985 13.18
                          1 failure since last successful login
                    **************
                    System Shutdown:  None scheduled
                    ------
                    VMS V4.2 apparently has some problems with its math library,
                    particularly concerning exponential routines.  It is suggested that
                    you compile your programs with the "check=all" switch to receive
                    error notification at run-time.  The problems seem to most often
                    manifest themselves as floating point underflow errors.  (12/3)
                    **************
                    Disk usage for [212,027]  11739 used / 20000 maximum
disk usage      You have Software Tools mail - use 'msg' to read
                9/25/85   1982 Census of Agriculture
                ------------------------------------
                A new database (code CZ) has been installed in SEEDIS.  It provides the 1982
                U.S. Census of Agriculture with many comparable items from the 1978 agriculture
                census.  Over 3,500 items are available for each STATE and COUNTY in the U.S.
                It requires the mounting of the disk pack CENSAGR001.  There are some known
                spelling errors in the data dictionary which will be corrected soon.

                9/10/85   1983 County & City Data Book
                ------------------------------------
                The 1983 County and City Data Book has been installed in SEEDIS.
                The county portion is database code CX, currently available at COUNTY80
                level of geography, and includes information from the 1978 Census of
                Agriculture and the 1977 Business and Government censuses.
                The city portion (for cities with population greater than 25,000)
                has different data and hence is given a different data base code CY.
                It is available at the PLACE80 level of geography.  For further information
                on either database, contact: Fred Gey (FTS 451-6208) or
                Esther Schroeder (FTS 451-5306).

                If you have questions or problems using SEEDIS or want to obtain printed
                output, please call Ilona Elnowski or Ann Gerken at (415) 642-6571 or
                (FTS) 415-642-6571.
                What's your last name ? gey
                Thank yougey
requests        $ seedis
SEEDIS
```

Correcting Typing Errors

In addition to their obvious functions, several keys on your keyboard can be given special meaning by the simultaneous use of the CONTROL (CTRL) or SHIFT keys. These keys are:

(shift)RUB

[**DEL** on a Texas Instruments terminal]
[**RUB** on a Textronix 4014 graphics terminal]
Using this key will erase characters from the line, one character at a time.

CTRL-u

Using this key will cause the entire line being typed to be deleted.

CTRL-r

This key will cause the line you are typing to be retyped at your terminal. Useful when working on a paper terminal and several corrections have been made, possibly making the line unreadable.

This key is used BEFORE the carriage return key has been hit.

CTRL-s

This key will temporarily halt the printing of information at your terminal. Particularly useful when using a screen terminal. The printing will remain halted until you use the CTRL-q key.

CTRL-q

This key will cause the printing halted by the CTRL-s key to resume. You may use the CTRL- s and q keys as many times as needed to look at a file.

CTRL-o

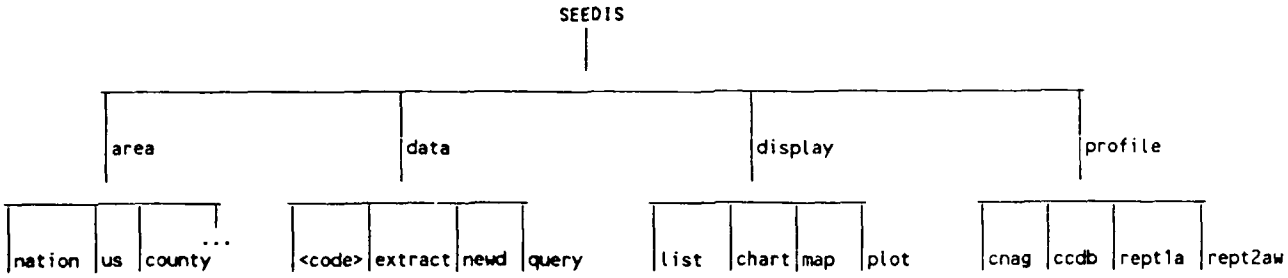
This key will terminate the printing of a file on your terminal.

CTRL-o suspends the printing of your file at the terminal while processing continues. If it is a very long file you can press CTRL-o again and the display will resume from the current point of processing.

The Structure of SEEDIS

SEEDIS operates as a heirarchy of menu options. If any particular option is chosen, it will present another sub-menu of options. Each menu can be finished with the response *quit*.

The four main options (called *modules)* which are presented when SEEDIS is accessed are *area*, *data*, *display*, and *profile*.



The *area* module defines the chosen geographic area of interest. It MUST be accessed and entered before any other module in SEEDIS (unless the area has been defined on a previous SEEDIS run, in which case the user can proceed directly to other options).

The *data* module is used to choose data items and to retrieve them for the particular geographic areas of interest. Within the *data* module there are also other powerful modules for manipulating SEEDIS data files, such as *newdata* (for adding personal data to SEEDIS working data files), and *query* (for selecting subsets of data and computing derived values).

The *display* module offers several ways to display the retrieved data in meaningful ways.

Finally, the *profile* module offers consolidated summaries of area characteristics.

The usual method of operating SEEDIS is to invoke *area*, *data*, *display* in that order, one after another. For beginners, the preferred method is to select *profile* after defining an *area*.

Accessing SEEDIS

Once you get the system prompt, "$", you simply type the word "seedis" followed by a carriage return (CR).

Example 1: Accessing the SEEDIS System

user requests SEEDIS

```
$ seedis

                    ------------------------------------------------------------
                    WELCOME TO SEEDIS, VERSION 1.4
                    ------------------------------------------------------------
                    At any point in Seedis, you can type the following global
                    commands to get these services.

Input               Description
------------------- ------------------------------------------------------------
?                   list and describe commands in this menu
help                describe the purpose of this menu's commands
show                list and explain items to be selected
review              list current session status and history
cancel              delete current selections (depends upon context)
quit                return to previous menu
*<comment>          enter a comment in Seedis log
control-T           check process (CPU = time in central processing unit)
control-Y           abort process, return to operating system

                    Please stand by. Your menu prompt will be here shortly.

                    SEEDIS: area, data, display, profile
. ?
Input               Description
------------------- ------------------------------------------------------------
area                select new geographic area (level and scope)
data                select, extract, enter or transform data
display             display data in tables, charts, or maps
profile             produce 1940-1977 County Data Book report

?                   list available commands in this menu
help                describe how to use Seedis
show                list Seedis databases
review              list current session status and history
cancel              delete files that Seedis created
quit                leave Seedis and return to operating system
*<comment>          enter a comment in Seedis log
```

question mark shows menu options

As shown above, SEEDIS offers several "global" commands which enable the user to obtain help and keep track of where he/she is in the SEEDIS session. These commands are:

Command	Description
?	list currently available commands
help	describe SEEDIS usage in greater detail
show	show extended lists of choices
review	review current session status & history
cancel	cancel current options and restart
quit	leave current place and return

The commands *help*, *show*, *review*, and *cancel* are context-dependent, that is they operate slightly differently depending where you are in the SEEDIS system. For example, HELP will always give information relating to where you are in the usage of the system. On the other hand, successive use of *quit* will always enable you to gracefully exit SEEDIS.

Suppose you are performing a flood control study in the Topeka, Kansas metropolitan area. You are preparing an economic base report and social profile for the study. These reports will focus on the SMSA as a whole, and also on selected census tracts which are adjacent to the Kansas River which runs through the northern part of the city of Topeka. The remainder of the User's Manual will illustrate how information for these reports for the counties comprising the SMSA is obtained. This is followed by a final chapter on obtaining data on cities and towns below the county level of detail. Appendix B of the Manual provides additional detail as well as examples of retrieving census tract data.

Selecting a Study Area

To select a study area, you first invoke the AREA command. Then you will be asked to select a level of geography. Finally, you will be prompted for your particular area. The following example selects three counties in the State of Kansas which make up the Topeka Standard Metropolitan Statistical area.

Example 2: A Three-county Study Area

user chooses area	SEEDIS: area, data, display, profile . **area** AREA: nation, state, county, county80, <other level> : **county** AREA: <state>, us, us+, fr<nn> .**kansas** State is KANSAS AREA: <county(s)>, all :**jeffer,osage,shawnee** AREA: <county(s)>, all :**review** Areas Selected ---------- KANSAS JEFFERSON OSAGE SHAWNEE AREA: <county(s)>, all :**quit** AREA: <state>, us, us+, fr<nn> :**quit**

Things to note about AREA selection

1. Area selection is done by common name, not by entering obscure codes.
2. More than one area can be selected on a single line, separated by commas. The input line "all" will select all possible areas (all counties within a state, all states in the U.S., etc.).
3. The full area name need not be spelled out; the first few unique characters will suffice
4. The REVIEW command shows what has been selected
5. Successive QUIT commands will save area selection and return to the SEEDIS monitor menu
6. The CANCEL command eliminates all area selection and starts over

Profile Reports of the Study Area

A general overview of the study area may be obtained by invoking the PROFILE module, which has currently four packaged profiles, *ccdb* (1947-1977 county data book), *cnag* (1974 Census of Agriculture), *rept1a* (1980 Census Summary Tape File 1 100% population count), and *rept2aw*, (1980 Census Summary Tape File 3 20% sample including income and employment).

user chooses profile option

```
                    SEEDIS: area, data, display, profile
: profile

                    PROFILE: ccdb, cnag, rept1a, rept2aw
: ?
Input               Description
-------------------------------------------------------------------
CCDB                County Data Book (1940-1977)
CNAG                1974 & 1969 Census of Agriculture
REPT1A              1980 Census Summary Tape File 1          80 column pages
REPT2AW             1980 Census STF3 (income, employment)  132 column page

?                   list available commands in this menu
help                describe writing of profiles
show                [no effect]
review              list current session status and history
cancel              return to main SEEDIS menu
quit                return to main SEEDIS menu
*<comment>          enter a comment in SEEDIS log

                    PROFILE: ccdb, cnag, rept1a, rept2aw
: cnag
                    PROFILE: page, type, print
: type
```

chooses CNAG profile

The type command types the profile to your terminal

```
                    PROFILE: page, type, print
: type
SEEDIS Run on  1 Dec 1983                        JEFFERSON County,   KAN
Lawrence Berkeley Laboratory     1974 and 1969 U. S. Census of Agriculture
```

In 1974 this area contained 1,078 farms. The total land area in farms was 273,793 acres, which comprised 83.9 percent of the total land area. The average farm size was 254 acres, and the average value of land and buildings per farm was $104,126.

The following table summarizes crop production for this area.

Crop Production

Crop	Units	Amount Harvested 1969	1974
Corn used for grain	bu	2,247,837	1,214,939
Sorghums for grain or seed	bu	1,248,453	919,649
Wheat for grains	bu	372,107	431,010
Soybeans Used for Beans	bu	223,095	475,473
Oats	bu	44,077	88,438
Barley	bu	250	5,550
Rye	bu	930	100
Irish potatoes	100w	732	309
Hay	tons	55,904	41,094
Corn for silage/green chop	tons	33,[illegible]	[illegible]
Cotton	bales	-	-
Peanuts for nuts	pounds	-	-
Tobacco	pounds	-	-

SEEDIS Run on 1 Dec 1983 OSAGE County, KAN
Lawrence Berkeley Laboratory 1974 and 1969 U. S. Census of Agriculture

In 1974 this area contained 1,023 farms. The total land area in farms was 386,898 acres, which comprised 85.5 percent of the total land area. The average farm size was 378 acres, and the average value of land and buildings per farm was $118,130.

The following table summarizes crop production for this area.

Crop Production

Crop	Units	Amount Harvested 1969	1974
Corn used for grain	bu	620,785	185,310
Sorghums for grain or seed	bu	2,942,819	1,644,343
Wheat for grains	bu	489,613	683,668
Soybeans Used for Beans	bu	614,916	650,889
Oats	bu	29,670	56,283
Barley	bu	5,554	975
Rye	bu	-	-
Irish potatoes	100wt	303	97
Hay	tons	49,696	45,756
Corn for silage/green chop	tons	36,857	40,824
Cotton	bales	-	-
Peanuts for nuts	pounds	-	-
Tobacco	pounds	-	-

SEEDIS Run on 1 Dec 1983 SHAWNEE County, KAN
Lawrence Berkeley Laboratory 1974 and 1969 U. S. Census of Agriculture

In 1974 this area contained 981 farms. The total land area in farms was 244,947 acres, which comprised 69.9 percent of the total land area. The average farm size was 250 acres, and the average value of land and buildings per farm was $109,495.

The following table summarizes crop production for this area.

Crop Production

Crop	Units	Amount Harvested 1969	1974
Corn used for grain	bu	2,026,902	1,372,312
Sorghums for grain or seed	bu	1,287,517	837,089
Wheat for grains	bu	643,270	668,423
Soybeans Used for Beans	bu	133,469	168,456
Oats	bu	43,290	23,981
Barley	bu	360	-
Rye	bu	-	-
Irish potatoes	100wt	3,122	11,125
Hay	tons	47,697	43,882
Corn for silage/green chop	tons	21,778	23,732
Cotton	bales	-	-
Peanuts for nuts	pounds	-	-
Tobacco	pounds	-	-

PROFILE: page, type, print

: **quit**

PROFILE: ccdb, cnag, rept1a, rept2aw

User selects the 'ccdb' profile

: **ccdb**

PROFILE: ccdb, cnag, rept1a, rept2aw

'page' prints the profile by screenfuls

: **page**

PROFILE: page, type, print

1

1977 CITY COUNTY DATA BOOK
FAMILIES, INCOME AND HOUSING PROFILE
KS JEFFERSON

FAMILY, INCOME

	1950	1960	1970
Number of Families	3,080	3,011	3,197
Percent Low Income 1/	50.4%	33.7%	14.4%
Median Family Income ($)	1,983	4,287	8,346

PUBLIC ASSISTANCE RECIPIENTS

	1972	1976
AFDC	89	270
AFDC children		182
Average Monthly Payments/Fam ($)	165	246
SSI		
Total		145
Aged		84
Payments Total/Mo. ($000)		[2]

HOUSING

	1940	1950	1960	1970
Total Housing Units	4,027	3,839	3,862	4,055
Percent built since last census		5.7%	12.6%	24.8%
Occupied units	3,748	3,530	3,473	3,771
Owner occupied	52.2%	69.6%	76.0%	79.6%
Median/Mean occupants	3.0md	2.7md	3.2mn	3.1mn
Median value owner-occupied ($)			5,800	11,397
Median rent ($)			60	87
mobility (% moved into in last 5 years)				45.0%

CONSTRUCTION (1975-1976)

New private units authorized	164
% single units	96.3
% 5+ units	0.0
Total permit value ($000)	4,145
Average per unit ($/unit)	25,274

1/ low income defined as under $2000 for 1950 and as under $3000 for 1960 and 1970
[n] denotes a suppression flag of value n

1

1977 CITY COUNTY DATA BOOK
BUSINESS AND INDUSTRY PROFILE
KS JEFFERSON

	1954	1958	1963	1967	1972
[Press SPACE for more]					
Manufacturing					
establishments	6	11	11	12	13
payroll ($000)	409	401	257	300	[2]
value add ($000)	436	860	510	600	[2]
new cap exp $000	28	0	16	100	[2]
employees	119	99	66	100	[2]
production workers	97	75	51	0	[2]
Retail Trade					
establishments	136	134	126	109	145
sales ($000)	7,884	8,097	8,788	9,549	12,290
payroll ($000)	545	559	678	760	794
employees	283	261	237	228	253
Selected Services					
[Press SPACE for more]					
establishments	44	49	53	71	79
receipts ($000)	222	422	435	567	1,214
payroll ($000)	24	36	48	84	182
employees	18	21	23	28	58
Wholesale Trade					
establishments	17	18	10	7	17
sales ($000)	0	2,295	2,291	2,797	8,200
payroll ($000)	0	131	68	103	438
employees	0	32	19	20	66
Mineral Industries					
establishments		2	2	4	1
payroll ($000)		0	0	[1]	[1]
ship val ($000)	0	0	0	[1]	[1]
[Press SPACE for more]					
value add ($000)			0		[1]
cap exp ($000)				0	
employees		0	0	[1]	[1]

[n] denotes a suppression flag of value n

```
1                    1977 CITY COUNTY DATA BOOK
                FAMILIES, INCOME AND HOUSING PROFILE
                          KS OSAGE

                       FAMILY, INCOME

                              1950        1960        1970
   Number of Families         3,525       3,549       3,630
   Percent Low Income 1/      46.5%       37.5%       15.7%

   Median Family Income ($)   2,104       3,939       7,553

[Press SPACE for more] q

   The following suppression flags may be encountered in the PROFILES
 where data is taken from the 1977 CITY COUNTY DATA BOOK.
 The suppression flags are:

 [1]   no data - not available
 [2]   no data - suppression for confidentiality purposes
 [3]   no data - not applicable
 [6]   no data - geographic unit not incorporated at the time to which
            this item refers
 [7]   no data - data omitted for negro or spanish heritage populations
            less than 400

                        PROFILE: page, type, print
: quit
```

Selecting the Report 1A Profile

After displaying his CCDB profile, the user only has to select the rept1a option within PROFILE to automatically obtain the Report 1A profile (1980 Census Summary Tape File 1) for the same areas.

user selects the rept1a profile	PROFILE: page, type, print : **quit** PROFILE: ccdb, cnag, rept1a, rept2aw : **rept1a** PROFILE: page, type, print : **page**

The "print" option shown above will print out the profile on the computer's line printer (usually at LBL). Call LBL if you have used this command and wish to have printouts mailed to you. This option is especially useful if the printout is too voluminous for your terminal (the *CCDB* profile for Texas counties will generate 497 pages of output).

```
1980 Census STF1                                Report 1A. Population
                                                and Housing  Part I
SEEDIS Run on  1 Dec 1983                            Jefferson County
Lawrence Berkeley Laboratory                                   Kansas
```

Population by Race, Origin, Marital Status

Universe: Persons	Number	Percent
Population by Race, including Hispanics	15,207	100.0
White	14,997	98.6
Black	51	0.3
Native American	110	0.7
American Indian	110	0.7
Eskimo	-	-
Aleut	-	-
Asian and Pacific Islander (4)	21	0.1
Japanese	4	-
Chinese	1	-
Filipino	1	-
Korean	3	-
Asian Indian	1	-

```
[Press SPACE for more] q
                    PROFILE: page, type, print
: quit
```

Selecting the Report 2A Profile

After displaying his Report 2A profile, the user can also select the rept2aw option within PROFILE to obtain the Report 2A profile (1980 Census Summary Tape File 3) for the same areas.

user selects the rept2aw profile

```
                    PROFILE: page, type, print
: quit
                    PROFILE: ccdb, cnag, rept1a, rept2aw
: rept2aw
                    PROFILE: page, type, print
: page

U.S. Department of Labor                  Report 2A: Employment and Training Ind
Employment and Training Admin.            Table: Population, Labor Force, and In
1980 Census, Run on  1 Dec 1983
Lawrence Berkeley Laboratory
```

Population

Universe: Persons (50)	Number	Pct
Population by Race, incl Hisp	15,207	100.0
White	14,949	98.3
Black	58	0.4
Native American	144	0.9
Asian and Pacific Isl (4)	31	0.2
Remaining Races (a)	25	0.2
Hispanic, all races	106	0.7

Labor Force, Industry and Occ

Universe. Persons 16 Years and Over	Emplo Number
Total, incl Hisp	6,64
White	6,55
Black	2
Native American	3
Asian/Pac Isl (4)	..
Remaining Race(a)	..

[The complete profiles for this example appear below in Appendix A]

Data Selection of Individual Data Items

In addition to obtaining area profile reports, users can select and retrieve individual data elements for a study area by using the DATA selection module. SEEDIS contains a number of large data bases (currently 30 different data bases with over 11,000 elements for each county are available). This section describes how to retrieve individual SEEDIS data items.

Each data base in SEEDIS has associated with it unique letter codes and a catalogue of data items which it contains. In order to see the data bases available for the level of geography previously selected, type "show." To browse through a particular catalog and select specific data elements from the associated data base, type the code for that data base, as shown below for the County Data Book Time Series data base:

Example 4: Selecting the County Data Book Catalogue

```
                    SEEDIS: area, data, display, profile
: data

                    DATA: <database code>, extract, newdata, query, model
: show
                    DATABASE CODES FOR COUNTY LEVEL

                Code Database Title                          Scope Vars    Access
                ---- ------------------------------------- ----- ------- -------
                AF   1970-77 Population by Age/Sex/Race      US      608 offline
                AM   Areas, Centroids, and Boundaries        US+      35 local
                AP   1980 Census Population (prelim)         CA        3 local
                BJ   Pop,labor force,migr,fertility          US      463 local
                BX   1980 Population by Race                 US       11 local
                CJ   1950-80 Population by Age/Sex/Race      US      306 local
                O    1970-75 Population by Age/Sex/Race      US      432 local
                R    Revised 1970 Pop'n by Age/Sex/Race      US      138 local
                T    1970 Pop by Age/Sex/Race/Mar Stat       US      216 local
                B    Biomass Resources, 1976 and 2025        CA       55 local
                D    1970 Residential Housing & Heating      CA      233 offline
                E    1960-95 Elec Generating Capacity        US       18 local
                A    Extract, Pop at Risk to Air Poll        CA       25 local
                L    1974-1976 Air Quality (complete)        US+     257 local
                M    1974-1976 Air Quality (summary)         US+      30 offline
                Z    1974-1976 Air Quality county vs PUS     US+      30 local
                BA   1969-77 Annual Leukemia Mortality       US      960 offline
                BZ   1973-77 SEER cancer incid by hist       SEER1   308 local
                CT   1973-81 SEER cancer incidences          SEER3 95040 offline
                CE   1968-72 Age Spec Mortality, Whites      US       76 offline
                CK   1968-78 Annual age spec mortality       US  1796696 offline
                P    1968-1972 Age Adjusted Mortality        US      652 local
                V    1977 Area Resource File                 US      889 local
                X    Cancer Mortality, 1950-1969             US      424 local
                AJ   1971-1976 Employment by Industry        US      284 offline
                CA   1980 Census Summary Tape File 1         US      342 local
                CF   1980 Census Summary Tape File 3         US     1153 local
                CI   1963 Employment by Industry             US      391 offline
user chooses    CR   1940-70 Employment by Industry          US      200 local
                CZ   1982 U. S. Census of Agriculture        US     3365 offline
------------>   F    1947-1977 County Data Book              US     1022 local
code "F"        G    1974 U. S. Census of Agriculture        US     1200 local
                U    1970 Socio-Econ Characteristics         US      228 local

                    DATA: <database code>, extract, newdata, query, model.
: f
```

Example 4 showed how to select the appropriate catalogue or dictionary for a particular data base. If the user had such a catalogue in printed form he would begin to leaf through the printed pages, beginning perhaps at the Table of Contents. Data selection within SEEDIS proceeds in much the same fashion, except that SEEDIS allows the user to browse through the catalogue much as he would a paper one. The SEEDIS selection program first prints the cover page of the dictionary. The user can examine the table of contents by invoking the TABLE command, as in the next example.

Example 5: Examining the Table of Contents

```
: f
-----------------------------------------------------------------------
!CCNTDB77          COUNTY DATA BOOK DICTIONARY
                   CONSOLIDATED FILE
                   COUNTY DATA 1947-1977
-----------------------------------------------------------------------
 Database Code     F

 Geographic Levels state,county

 Directory Authors Fredric Gey, Staff Scientist
                   Computer Science and Mathematics Department
                   Lawrence Berkeley Laboratory, Mailstop 50B-3238
                   Berkeley, CA  94720
 Telephone         (415) 486-6208 or FTS 451-6208

 Data Source       County and City Data Books 1947-1977
                   U.S. Bureau of the Census
                   Washington, DC

 Last Update       30 November 1983
 Reformatted       May-November 1983

                   DATA: <line letter(s)>, table, <page number>, CR
: table
F                  County Data Book 1947-1977   Table of Contents

              Page   TABLE OF CONTENTS
              -----  ----------------------------------------
               pref  PREFACE
              table  Table of Contents
                  1   Introduction
                  2   Geographic Designations
                  3   General Population Characteristics, Migration
                  6        Vital Statistics, Family
                  8        Age
                  9        Income
                 11       Social Security and Public Assistance
                 12       Education
                 13       Presidential Vote
                 14       Medical
                 15       Crime and Police
                 16   Employment and Labor Force
                 16        Employment, General Characteristics
                 17             Journey to Work
                 18        Local Government Employment

                   DATA: <line letter(s)>, table, <page number>, CR
: CR
```

prints table of contents

population data on page 3

next screen

table of contents continued

19 Social Security Coverage
19 Unemployment
20 Housing
23 Business and Industries
23 Retail Trade
25 Establishments by Type
26 Payroll and Employment
27 Personal Business and Repair Services
27 Selected Services
28 Establishments by Type
30 Wholesale Trade
31 Mineral Industries
32 Manufactures
36 War Contracts
37 Agriculture
42 Farm Households, Level of Living
43 Banking
44 Local Government
44 Revenue
44 Expenditures
45 Indebtedness

housing data on page 20

The data catalogue can be examined sequentially from beginning to end by simply pressing successive carriage returns (CR), one after another. On the other hand, each line in the Table of Contents refers to a page number of the text of the catalogue. To view that page within SEEDIS, one simply types that number. For example, to examine Population data from the above catalogue, type "3":

Example 6: Selecting Population Data from the County Data Book

choose page 3

```
                    DATA: <line letter(s)>, table, <page number>, CR
: 3
  County Data Book   POPULATION, DENSITY, MIGRATION, RURAL Page  3
  Data Elements      Description      Time
  ----------------- ----------------------------------------
                     Population
A !CCDBC0012                        1940
B !CCDBC0013                        1950
C !CCDBC0014                        1960
D !CCDBC0015                        1970
E !CCDBC0016                        1970
F !CCDBC0017                        1972
G !CCDBC0018                        1975
                     Population Rank
H !CCDBC0006                        1950
I !CCDBC0007                        1960
J !CCDBC0008                        1960
K !CCDBC0009                        1970
L !CCDBC0010                        1975
                     Population Rank in Percentile
M !CCDBC0011                        1940
                     Land Area in Square Miles
N !CCDBC0001                        1940

                    DATA: <line letter(s)>, table, <page number>, CR
. a-d,n
                    number of data elements selected is 5
```

choose data items

Notice that to the left of each data item on the previous page there is an alphabetic "sequence character," followed by an exclamation point (!). To select a data item on the displayed page, the user simply types in the appropriate "sequence letters," as above in Example 6 or below in Example 7.

Example 7: Selecting Housing Data from the County Data Book

```
                          DATA: <line letter(s)>, table, <page number>, CR
choose page
20        : 20
            County Data Book   HOUSING: UNITS, OCCUPANCY, VALUE      Page 20
            Data Elements      Description     Time
            ------------------ ----------------------------------------
                               Residential Structures
            A !CCDBC0282                       1940
                               Housing Units
            B !CCDBC0283                       1940
            C !CCDBC0284                       1950
            D !CCDBC0285                       1960
            E !CCDBC0286                       1970
                               Percent Change
            F !CCDBC0287                       1960-1970
                               Median Rooms Per Unit
            G !CCDBC0288                       1950
            H !CCDBC0289                       1960
            I !CCDBC0290                       1970
                                    Percent in Detached Structures
            J !CCDBC0291                       1950
            K !CCDBC0292                       1960
            L !CCDBC0293                       1970
                                    Percent in 5 or More Unit Structures

                               DATA: <line letter(s)>, table, <page number>, CR
choose data
items     : b-e
                               number of data elements selected is 4

                               DATA: <line letter(s)>, table, <page number>, CR
          : review
                               Data elements selected for this database: 9
                               CCDBC0012          CCDBC0013          CCDBC0014
                               CCDBC0015          CCDBC0001          CCDBC0283
                               CCDBC0284          CCDBC0285          CCDBC0286

                               DATA: <line letter(s)>, table, <page number>, CR
          : quit
```

Thus, in Example 6 on the previous page, the user has selected total population for the years 1940, 1950, 1960, and 1970 as well as the county area in square miles. In example 7, the number of housing units in the years 1940, 1950, 1960, and 1970 were selected.

A key feature of SEEDIS is the ability to select and retrieve data from more than one data base and merge all selected data items into a single work file for display and analysis.

Another important data base is the 1980 Census Summary Tape File 3 (data base code CF in the list of data bases shown above in example 4). In the following example, we will select 1980 population and housing units from this data base dictionary.

Example 8: Selecting Data from the 1980 Census

user chooses code CF

```
                    DATA. <database code>, extract, newdata, query, model
: CF

                    Disk pack SEEDIS005 is not presently on line.
                    Data can be selected but not extracted at this time.

-----------------------------------------------------------------------------
!STF3               1980 CENSUS. SUMMARY TAPE FILE 3
-----------------------------------------------------------------------------
Database Code       CF

Geographic Levels   NATION80  CENREG   CENDIV   STATE     COUNTY80  COUNTY
                    CNTY7080  CD97     SCSA81   STSCSA81  SMSA81    STSMSA81
                    UA80      STUA80   FED      EDBG80PT2

Geographic Scope    US (only 38 states for level EDBG80PT2)

Directory Authors   L. Wong, D. Merrill
                    Lawrence Berkeley Laboratory, Berkeley, CA

Data Source         Census of Population and Housing, 1980, Census Bureau

Last Update         27 October 1983

Documentation       $ copy disk$seedis004:[seedis.seedict]stf3.sof *.*
                    $ @sy$seedis:[seedis.docs]soff stf3 print
```

population data on page 32

housing data on page 34

```
                    DATA. <line letter(s)>, table, <page number>, CR
: table
CF                  1980 Census: STF3                          Page   2 of 395

                PAGE TABLE OF CONTENTS
                ---- ---------------------------------------------------------
                   1 Title Page
                   2 Table of Contents
                  14 Subject Matter Description
                  15 Data Elements
                  16 Known Errors and Omissions
                  31      Table Description
                  31            TAB1. Urban and Rural (3)
                  31            TAB2. Unweighted Sample Count of Persons (1)
                  32            TAB3. 100-Percent Count of Persons (1)
                  32            TAB4. Urban and Rural (3)
                  32            TAB5. Unweighted Sample Count of Housing Units
                  34            TAB6. 100-Percent Count of Housing Units
                  35            TAB7. Farm Residence (Current Farm
                  35            TAB8. Farm Residence (1970 Census Farm
                  36            TAB9. Families (1)
                  36            TAB10  Households (1)
                  37            TAB11  Occupancy Status (3)
```

```
                          DATA: <line letter(s)>, table, <page number>, CR
choose page
32        . 32
          CF              1980 Census: STF3                          Page  32 of 395
                             TAB3: 100-Percent Count of Persons (1)
                             Universe: 100-Percent Count of Persons
                             Footnote: 38
             Data Element   Sup  Description
             -------------  ---  ---------------------------------------------------
          A  !TAB3(1)            100-Percent Count of Persons

                             TAB4: Urban and Rural (3)
                             Universe: Housing Units (Including
                                       Vacant Seasonal And
                                       Migratory Units)
                                       Note:  To obtain urban count,
                                       subtract rural from total.
                             Footnote: 1 50
             Data Element   Sup  Description
             -------------  ---  ---------------------------------------------------
          B  !TAB4(1)            Total
          C  !TAB4(2)            Inside urbanized areas
          D  !TAB4(3)            Rural

                          DATA: <line letter(s)>, table, <page number>, CR
select total
population :a
                          Number of data elements selected is 1

                          DATA: <line letter(s)>, table, <page number>, CR
page 34   : 34
          CF              1980 Census: STF3                          Page  34 of 395
                             TAB6: 100-Percent Count of Housing Units
                                   (Including Vacant Seasonal and
                                   Migratory Units (1)
                             Universe: 100-Percent Count of Housing
                                       Units (Including Vacant
                                       Seasonal And Migratory
                                       Units)
                             Footnote: 1 38
             Data Element   Sup  Description
             -------------  ---  ---------------------------------------------------
          A  !TAB6(1)            100-Percent Count of Housing Units
                                   (Including Vacant Seasonal and
                                   Migratory Units)

                          DATA: <line letter(s)>, table, <page number>, CR
obtain
housing
units     .a
                          Number of data elements selected is 1

                          DATA: <line letter(s)>, table, <page number>, CR
end data
selection : quit
                          DATA: <database code>, extract, newdata, query, model
```

As this example shows, the user first examines the table of contents of the data base catalogue using the "table" command. The table of contents shows that population data is on page 32, and housing data are on page 34 of the catalog. The user enters a page number to go to the appropriate page and then selects data elements he/she is interested in

To Review: What have we done so far in DATA Selection

1. Selected the county data book
2. Selected 1940, 1950, 1960, 1970 total population and land area
3. Selected 1940, 1950, 1960, 1970 total housing units
4. Selected 1980 Census STF3 total population and total housing units

Data Extraction

Data values are not automatically retrieved when items are selected. For efficiency (particularly if network access is involved), the user explicitly invokes data extraction once (as illustrated below), to retrieve all previously selected data to his or her own working data file. No other information about file names or storage locations needs to be supplied.

retrieves selected data	: **extract**	DATA: <database code>, extract, newdata, query, model

Review of Current Status

The global review command produces a standard display of information about the user's current status, as shown below.

user requests report on current status		DATA: <database code>, extract, newdata, query, model
	: **review**	
	geographic level	COUNTY
	geographic scope	
	geographic area	contains 3 geographic units
	data selection	none remain to be extracted
	data models	none remain to be calculated
	working data file	contains 14 data elements
	graphic device	
	map projection	
	disk packs	SEEDIS001 is on __DUA1: SEEDIS002 is not on line SEEDIS003 is not on line SEEDIS004 is on __DRB5: SEEDIS005 is on __DRB6: CENS80005 is not on line (If necessary, type $dschedx to schedule disk packs. All packs are new big packs. System mounting required.)
finishes with data selection		DATA: <database code>, extract, newdata, query, model
	: **quit**	
		SEEDIS: area, data, display, profile

Having selected and extracted his data, the user is ready to examine what has been obtained. This is done by leaving the DATA section and proceeding to the DISPLAY section of SEEDIS.

Tabular Display of Data Values

Data display within SEEDIS is accessed via the various DISPLAY menu options. The simplest is a LIST routine for listing data values in tabular form at the terminal or on a line printer. As usual, the user can invoke "?" or "help" to select an appropriate command option. Here, our hypothetical user requests a description of command options.

user proceeds to data display

```
                    SEEDIS. area, data, display, profile
: display

                    DISPLAY. chart, list, map, plot, device
```

selects option for tabular listing

```
: list

                    DISPLAY/LIST. page, type, print
: ?
Input               Description
-----------------------------------------------------------------------
page                list data at the terminal page by page
type                list data at the terminal without paging
print               print data on the line printer

?                   list available commands in this menu
help                describe alternatives for listing data
show                list names and labels of data elements in working data set
review              list current session status and history
cancel              [no effect]
quit                return to previous menu
*<comment>          enter comment in SEEDIS log
```

requests description of available commands

The *print* option above refers to the line printer located in Berkeley. If you have printed output which you would like to receive, call LBL or the SEEDIS Applications Service Center.

Our user now requests listing of the data at the terminal.

user requests display to be typed at terminal without paging

```
                    DISPLAY/LIST. page, type, print
: type

                                  FIPS.STATE      FIPS.COUNTY


KS JEFFERSON                          20              087
KS OSAGE                              20              139
KS SHAWNEE                            20              177

                                 OCDBC0012       OCDBC0013

                               Population 1940 Population 1950


KS JEFFERSON                       12718           11084
KS OSAGE                           15118           12811
KS SHAWNEE                         91247          105418

                                 OCDBC0014       OCDBC0015
```

Note: SEEDIS automatically formats the report with column titles

```
                                        Population 1960  Population 1970

KS JEFFERSON                                  11252            11945
KS OSAGE                                      12886            13352
KS SHAWNEE                                   141286           155322

                                          CCDBC0001        CCDBC0283

                                        Land Area in
                                        Square Miles    Housing Units
                                                1940             1940

KS JEFFERSON                                    549             4027
KS OSAGE                                        721             5007
KS SHAWNEE                                      545            28009

                                          CCDBC0284        CCDBC0285

                                       Housing Units    Housing Units
                                                1950             1960

KS JEFFERSON                                   3839             3862
KS OSAGE                                       4462             4788
KS SHAWNEE                                    33917            46015

                                          CCDBC0286          TAB3(1)

                                                        100-Percent
                                       Housing Units      Count of
                                                1970    Persons (1)

KS JEFFERSON                                   4055            15207
KS OSAGE                                       4898            15319
KS SHAWNEE                                    51929           154916

                                             TAB6(1)

                                        100-Percent
                                          Count of
                                       Housing Units

KS JEFFERSON                                   5817
KS OSAGE                                       6152
KS SHAWNEE                                    64446
```

user finishes data listing

DISPLAY/LIST. page, type, print

quit

Chart Making

The SEEDIS CHART module provides extensive facilities for producing standard and customized charts on various output devices. Terminal interfaces are available for the Tektronix 4010, 4014/15/16, and color 4027 and 4105 terminals. The output may be obtained on an IBM-PC using a 4010 emulation program.

CHART itself can create bar charts, line graphs, pie charts, and do significant statistical and other calculations. Of the many commands available within CHART, we shall illustrate the following:

command	meaning
WINDOW	narrow down to specific rows or columns
MASK	mask out undesired columns of data
PLOT REPORT	print out the data in report form
BAR	draw a bar chart
PIE	draw a pie chart

user enters chart module

: **chart**

```
DISPLAY: chart, list, map, plot, device

Table size is 3 rows by 11 columns.
For tables larger than one screenful see "help table size"

CHART: <commands>
```

requests default bar chart

: **plot report**

	Population 1940	Population 1950	Population 1960	Population 1970	Land Area Square Miles	Housing Units 1940	Housing Units 1950	Housing Units 1960	Housing Units 1970	100-Percent Urban Population of Person	100-Percent Urban Population Housing Units
KS JEFFERSON	12718	11084	11252	11945	549	4027	3838	3862	4055	15207	5817
KS OSAGE	15118	12811	12886	13752	721	5007	4462	4788	4898	15319	6152
KS SHAWNEE	91247	105418	141286	155322	545	28009	33917	46015	51929	154916	64446

In this section, we show how to create a bar chart.

First, to have a reasonable bar chart of comparable data we mask out all but the 1940, 1950, 1960, 1970, and 1980 housing unit data.

masks out unwanted columns

CHART: <commands>

: **mask col 5-9 11**

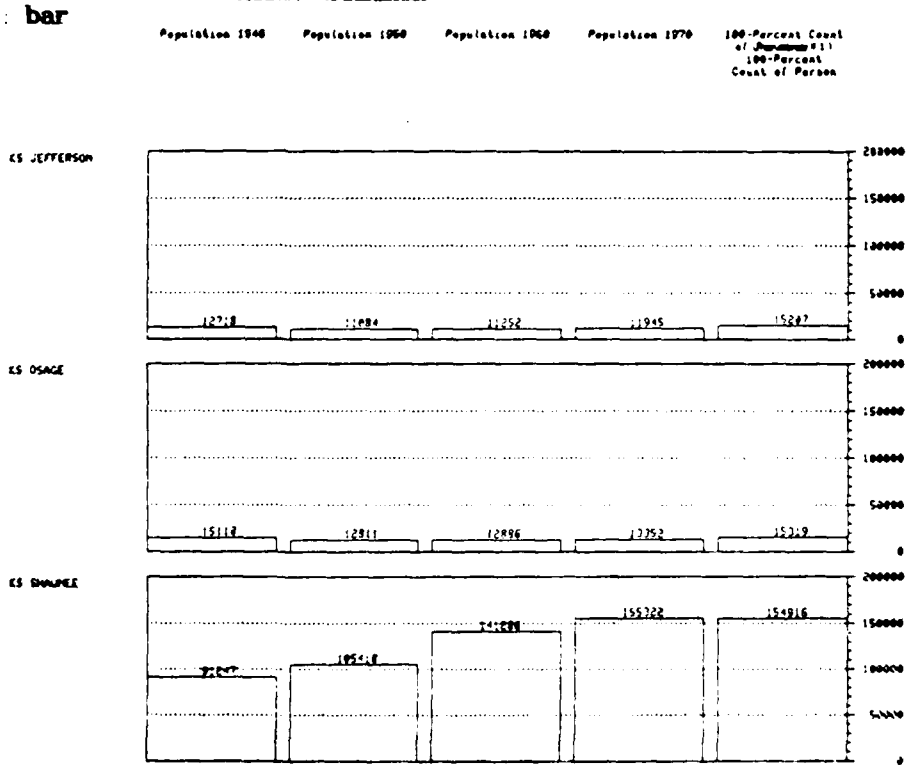
	Population 1940	Population 1950	Population 1960	Population 1970	100-Percent Count Unit of Per 100-Percent Count of Person
KS JEFFERSON	12718	11094	11252	11945	15287
KS OSAGE	15118	12811	12886	13352	15319
KS SHAWNEE	91247	105418	141286	155322	154916

Then a bar chart may be drawn by simply typing the command "bar." The images shown were reduced from Tektronix hard-copy output.

asks for a bar chart to be made

CHART: <commands>

: **bar**



Similar simple default pie charts can be produced with the command "pie."

turns off plot display

CHART: <commands>

: **plot none**

asks for 1980 population column

CHART: <commands>

: **window col 5**

CHART: <commands>

: **plot report**

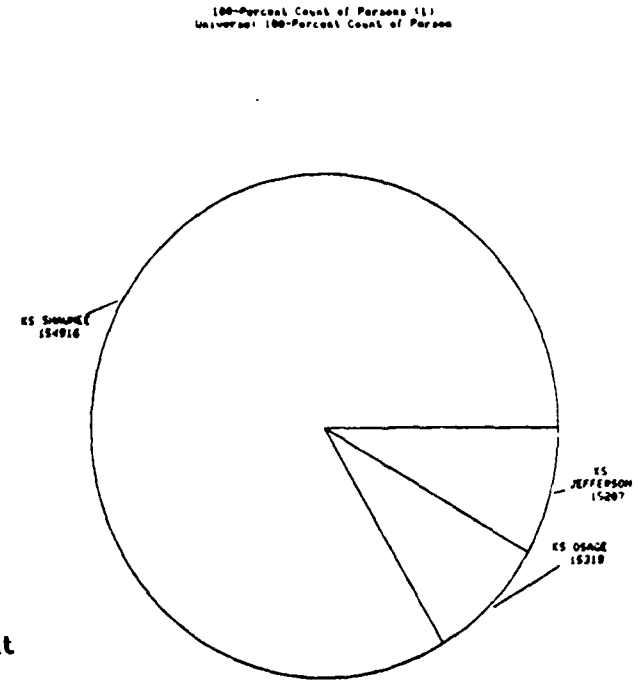
```
                                        100-Percent Count of Persons (1)
                                   Universe: 100-Percent Count of Person

KS JEFFERSON                                                    15207
KS OSAGE                                                        15319
KS SHAUNEE                                                     154916
```

asks for a pie chart to be made

CHART: <commands>

: **pie**



finishes chart module

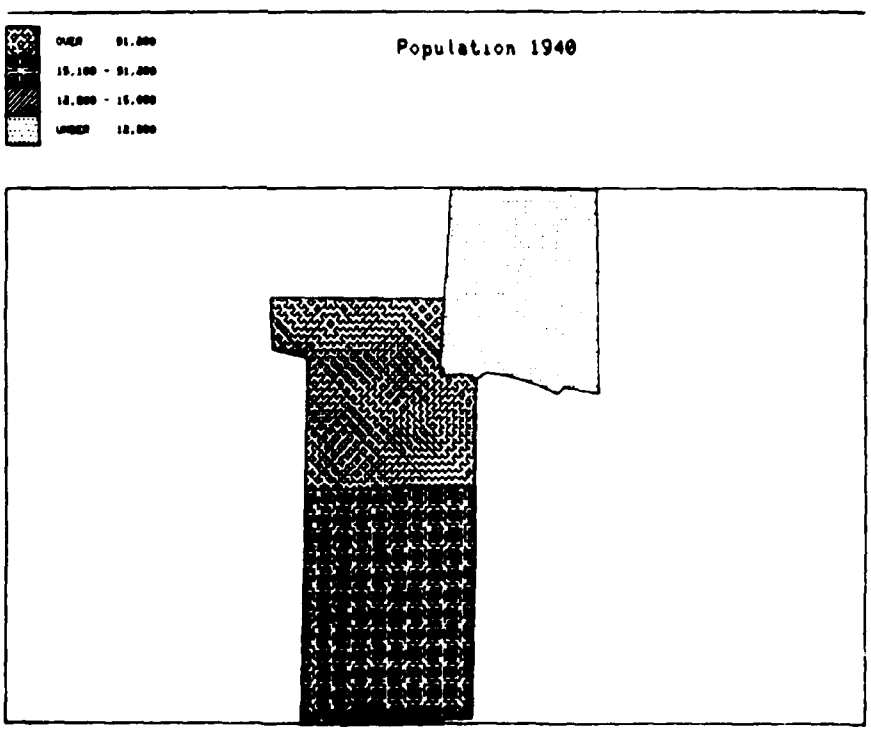
: **quit**

Map Making

SEEDIS has a wide variety of map-making capabilities. The example below illustrates the simplest default map produced automatically for the extracted data on a Tektronix 4014 terminal and associated hard-copy device.

	: **display**
	DISPLAY: chart, list, map, plot, device
	: **device**
	DISPLAY/TERMINAL: <graphic output device>
	: **4014**
	DISPLAY: chart, list, map, plot, device
	: **map**
user enters mapping module	CARTE: <commands>
	CCDBC0012
	#Population 1940#
	OVER 91200 1
	15100 - 91200 1
	12800 - 15100 0
	UNDER 12800 1
	DATA NOT AVAILABLE 0
	Type ''go'' to see the map.
requests default map	: **go**

Note: when the user types "go", the screen clears and the map appears



Ending A SEEDIS Session

Since the geographic area list and working data file are automatically stored in the user's current working directory, he can terminate a SEEDIS session and resume work at a later time. The user in our example below types a succession of "quit" commands to leave the map, display, and SEEDIS modules respectively, and then "logout" to terminate the VMS computer session. The next time the user logs onto VMS and enters SEEDIS he can type "review" to be reminded of what has already been specified, and then select additional data or proceed directly to display and analysis.

user finishes map module	: **quit** DISPLAY: chart, list, map, plot, device
finishes data display	: **quit** SEEDIS: area, data, display, profile
finishes using SEEDIS	: **quit**
leaves VMS	$ **logout** ARMYCORPS logged out at 09-SEP-1985 16:07:43.47

Advanced Features

This concludes the description of the beginning features of SEEDIS. The next sections describe intermediate features of SEEDIS, including scheduling disk packs for off-line data, entering new data into SEEDIS work files, computing derived values and advanced charts, and transforming SEEDIS work files into equivalent files which are readable by SPSS and LOTUS 1-2-3.

Scheduling disk packs containing SEEDIS data

Since the amount of data archived in SEEDIS is around 5 billion data values, it sometimes happens that the particular data file that a user wishes to retrieve is not currently on-line, but is stored on a magnetic disk pack. In this case the particular pack containing the data must be scheduled in advance. The purpose of this section is to show how this might be done.

Disk pack scheduling is done outside SEEDIS, using a utility program called **dsched**. The following screens show how to schedule two disk packs, CENSAGR001 which contains the 1982 U.S. Census of Agriculture, and CENS80005 which contains PLACE80 data for the 1980 Census STF3.

We begin by assuming that the user has logged in on a Tuesday, and finding that his data is not currently on-line, wishes to schedule it for Wednesday, seeking first to retrieve Census of Agriculture data in the morning (Pacific Time) and place data for the 1980 Census on Wednesday afternoon. Before you begin, you should have quit out of SEEDIS and be back to the computer's dollar sign ($) prompt:

User invokes dsched utility Asks to see the Wednesday schedule

```
$ dsched
Which day's schedule do you wish to see ?
 Mon,Tue,....,Fri,or Quit ?  wed
Old small disks or New big disks [old/new] ?  new
Private pack schedule - big disks - LBLH & LBLG              wednesday 16-oct-1985

                 LBLH-DRC6        LBLH-DRC7        LBLG-DRC2        LBLG-DRC3
              ------------------------------------------------------------------
  morning (1)                |(2) seedis005     |(3)               |(4) lblk system
0830-1200                    |    gey           |                  |    disk
                             |    (system)      |                  |
              ------------------------------------------------------------------
afternoon (5)                |(6) seedis005     |(7)               |(8) lblk system
1200-1630                    |    gey           |                  |    disk
                             |    (system)      |                  |
              ------------------------------------------------------------------
  evening (9)                |(a) seedis005     |(b)               |(c) lblk system
1630-0400                    |    gey           |                  |    disk
                             |    (system)      |                  |
              ------------------------------------------------------------------
Select reservation slot by number, 1-c
To see another day enter 0
Slot  1
Pack name (or slot # if same as other)  censagr001
Your username  armycorps
System mounted (y/n)?  y
 censagr001   armycorps (system)
Slot  0
```

Schedules CENSAGR001 in slot 1 puts his username and system mount

In the above example, two items are important to note. First, all SEEDIS disks are on the big disks (called *new*), and thus this scheduling option should always be chosen. Second, the "system mounted (y/n)?" query should always be answered *y* so that the SEEDIS pack can be accessed by all other SEEDIS users (and not just the person who scheduled it).

The following screen looks at Wednesday again, both to confirm that CENSAGR001 has been scheduled correctly, and to schedule the CENS80005 disk pack.

```
Which day's schedule do you wish to see ?
 Mon,Tue,...,Fri,Quit,or <CR> for other disks ?  wed
Old small disks or New big disks [old/new] ?  n
Private pack schedule - big disks - LBLH & LBLG                wednesday 16-oct-1985

                 LBLH-DRC6          LBLH-DRC7          LBLG-DRC2          LBLG-DRC3
            ----------------------------------------------------------------------
  morning (1) censagr001   |(2) seedis005   |(3)               |(4) lblk system
0830-1200     armycorps    |    gey         |                  |    disk
              (system)     |    (system)    |                  |
            ----------------------------------------------------------------------
afternoon (5)              |(6) seedis005   |(7)               |(8) lblk system
1200-1630                  |    gey         |                  |    disk
                           |    (system)    |                  |
            ----------------------------------------------------------------------
  evening (9)              |(a) seedis005   |(b)               |(c) lblk system
1630-0400                  |    gey         |                  |    disk
                           |    (system)    |                  |
            ----------------------------------------------------------------------
Select reservation slot by number, 1-c
To see another day enter 0
Slot:  5
Pack name (or slot # if same as other).  cens80005
Your username:  armycorps
System mounted (y/n)?  y
 cens80005    armycorps (system)
Slot:  0
```

Zero goes to new day

It is worthwhile to repeat the examination of the Wednesday schedule in order to confirm that the correct pack has been entered for the proper time slot.

```
Which day's schedule do you wish to see ?
 Mon,Tue,...,Fri,Quit,or <CR> for other disks ?  wed
Old small disks or New big disks [old/new] ?  n
Private pack schedule - big disks - LBLH & LBLG                wednesday 16-oct-1985

                 LBLH-DRC6          LBLH-DRC7          LBLG-DRC2          LBLG-DRC3
            ----------------------------------------------------------------------
  morning (1) censagr001   |(2) seedis005   |(3)               |(4) lblk system
0830-1200     armycorps    |    gey         |                  |    disk
              (system)     |    (system)    |                  |
            ----------------------------------------------------------------------
afternoon (5) cens80005    |(6) seedis005   |(7)               |(8) lblk system
1200-1630     armycorps    |    gey         |                  |    disk
              (system)     |    (system)    |                  |
            ----------------------------------------------------------------------
  evening (9)              |(a) seedis005   |(b)               |(c) lblk system
1630-0400                  |    gey         |                  |    disk
                           |    (system)    |                  |
            ----------------------------------------------------------------------
Select reservation slot by number, 1-c
To see another day enter 0
Slot:  0
```

Entering New Data Into SEEDIS Work Files

It often happens that the user of a data archive (such as SEEDIS) has available, from published or private sources, more recent data than is in the system. SEEDIS, through the NEWDATA module, provides a mechanism by which user data may be entered and integrated into the SEEDIS work file. This feature allows user-supplied data to be used with the chart-making and map-making routines within SEEDIS.

In the following example, the SEEDIS user has obtained the Census bureau publication CAO-82-13 *Housing Units Authorized by Building Permits and Public Contract: Annual 1982*, which on Pages 126 and 130 has new private housing authorized in 1981 and 1982 for communities in Jefferson and Shawnee counties in Kansas. Data for Osage County are not available. The user adds up the data to obtain county totals:

	1981	1982
Jefferson	40	40
Shawnee	360	361

These data will will be entered into SEEDIS.

user has re-entered SEEDIS and typed 'data'

```
                    DATA: <database code>, extract, newdata, query, model
: newdata
                    NEWDATA: <data name>
: ?

Input               Response
-------------------- ------------------------------------------------------
<data name>         append to current list of data names

?                   list commands available in this menu
help                describe how to enter list of data names
show                [no effect]
review              display current list of data names
cancel              erase current list of data names
quit                recess newdata session

                    NEWDATA: <data name>
: help
                    ENTERING NEW DATA NAMES
                    ------------------------------------------------------
                    You must enter a different name for each data item that is
                    to be given values. A data name can be up to 16 characters
                    in length (counting internal blanks). These names will be
                    used as prompters as you enter data values, so more than 16
                    characters may be used to enhance the prompts. Enter one
                    name per line and enter CR to terminate the list of names.

                    You can interrupt your Newdata session at any point merely
                    by typing "quit". Everything you have typed previously will
                    be preserved, and you can resume where you leave off when
                    you next login to SEEDIS

                    NEWDATA: <data name>
: newhou81
: newhou82
  CR
```

Carriage return ends definition

Once the data names have been entered into NEWDATA, the user is prompted to enter values for each area associated with his work file

user prompted for Jefferson County

```
                    Enter:
                    newhou81
                    newhou82
                    KS JEFFERSON:

                    NEWDATA: <data value(s)>, missing
: ?

Input               Response
------------------- ------------------------------------------------------
<value(s)>          assign value(s) to corresponding data name(s)
missing             assign value "Nil" to corresponding data name

?                   list commands available in this menu
help                describe entering data values
show                [no effect]
review              [no effect]
cancel              [no effect]
quit                recess newdata session

                    Enter:
                    newhou81
                    newhou82
                    KS JEFFERSON:

                    NEWDATA: <data value(s)>, missing
: help
                    ENTERING NEW DATA VALUES
                    ------------------------------------------------------
                    You must supply a data value for every new data item being
                    added. Enter data values on separate lines or separated by
                    blanks (if more than one data value per line). Observe the
                    following conventions:

                    Enter the word "missing" to indicate missing data.

                    Use quotes (e.g., "New Orleans") to enter text strings
                    which contain blanks.
                    Use quotes (e.g., "?", "quit") to enter reserved symbols
                    as text strings.
                    Use double quotes (e.g., "I said ""Hello""!") inside of
                    quoted text strings.

                    You can interrupt your Newdata session at any point merely
                    by typing "quit". Everything you have typed previously will
                    be preserved, and you can resume where you leave off when
                    you next login to SEEDIS.
```

As with other portions of SEEDIS, typing the global command **help** will provide the user with assistance.

```
                    Enter:
                    newhou81
                    newhou82
                    KS JEFFERSON:

                    NEWDATA: <data value(s)>, missing
data entered
for Jefferson  : 40 40

                    Enter:
                    newhou81
                    newhou82
                    KS OSAGE:

                    NEWDATA: <data value(s)>, missing
missing data
entered for
Osage
County        : missing missing

                    Enter:
                    newhou81
                    newhou82
                    KS SHAWNEE:

                    NEWDATA: <data value(s)>, missing
data for
Shawnee
County        : 360 361

                    Data entry completed.
                    SEEDIS file written.

                    DATA: <database code>, extract, newdata, query, model
              : quit
```

```
                    SEEDIS: area, data, display, profile
              : display

                    DISPLAY: chart, list, map, plot, device
              : list

                    DISPLAY/LIST: page, type, print
              : type

                                  FIPS.STATE      FIPS.COUNTY

KS JEFFERSON                            20              087
KS OSAGE                                20              139
KS SHAWNEE                              20              177

                                 CCDBC0012       CCDBC0013

                              Population 1940 Population 1950

KS JEFFERSON                         12718           11084
KS OSAGE                             15118           12811
KS SHAWNEE                           91247          105418

                                 CCDBC0014       CCDBC0015

                              Population 1960 Population 1970

KS JEFFERSON                         11252           11945
KS OSAGE                             12888           13352
KS SHAWNEE                          141286          155322

                                 CCDBC0001       CCDBC0263
```

```
                                  Land Area in
                                  Square Miles    Housing Units
                                          1940             1940

KS JEFFERSON                               549             4027
KS OSAGE                                   721             5007
KS SHAWNEE                                 545            28009

                                     CCDBC0284        CCDBC0285

                                  Housing Units    Housing Units
                                          1950             1960

KS JEFFERSON                              3839             3862
KS OSAGE                                  4462             4788
KS SHAWNEE                               33917            46015

                                     CCDBC0286          TAB3(1)

                                                     100-Percent
                                  Housing Units        Count of
                                          1970     Persons 100-

KS JEFFERSON                              4055            15207
KS OSAGE                                  4898            15319
KS SHAWNEE                               51929           154916

                                       TAB6(1)         NEWHOU81

                                  100-Percent
                                     Count of
                               Housing Units           newhou81

KS JEFFERSON                              5817               40
KS OSAGE                                  6152               -9
KS SHAWNEE                               34446              360

                                     NEWHOU82

                                     newhou82

KS JEFFERSON                                40
KS OSAGE                                    -9
KS SHAWNEE                                 361

                 DISPLAY/LIST: page, type, print
: quit
```

Computation Using Chart

Computing 1983 Estimated Housing Units

This section demonstrates the use of the CHART system to compute new values from existing SEEDIS data, and to do analytical tasks deriving information from the data. Specifically, we will use the data entered with the NEWDATA module to estimate 1983 housing units. Following that we will use the system to compute percent change in housing units over four decades (1940-1980).

Invoke the CHART system	. **chart**	DISPLAY. chart, list, map, plot, device NEWDATA. 21-DEC-84 Table size is 3 rows by 13 columns. For tables larger than one screenful see "help table size" CHART: <commands>
	: **plot report**	(insert paste up screen c-1 here)
Masks out the population columns to concentrate on housing	. **mask col 1-5 10**	(insert paste up screen c-2 here)

Narrow down to 1980 units, and permits authorized

```
. mask col 1-4
```

NEWDATA.	100-Percent Count of Housing Units (Including Vacant Seasonal and	newbus81	newbus82
KS JEFFERSON	5817	40	40
KS OSAGE	6152		
KS SHAWNEE	64446	360	361

Sum 1980 housing units with 1981-1982 authorized

Carriage Return ends input and computation

```
. insert col
 TYPE LABEL ON ONE LINE, THEN   3 DATA VALUES ON NEXT LINES.
 TYPE A BLANK LINE TO EXIT.
COL  4
1983 Housing units
=col1+col2+col3
COL  5
CR
```

NEWDATA.	100-Percent Count of Housing Units (Including Vacant Seasonal and	newbus81	newbus82	1983 Housing Units
KS JEFFERSON	5817	40	40	5897
KS OSAGE	6152			6152
KS SHAWNEE	64446	360	361	65167

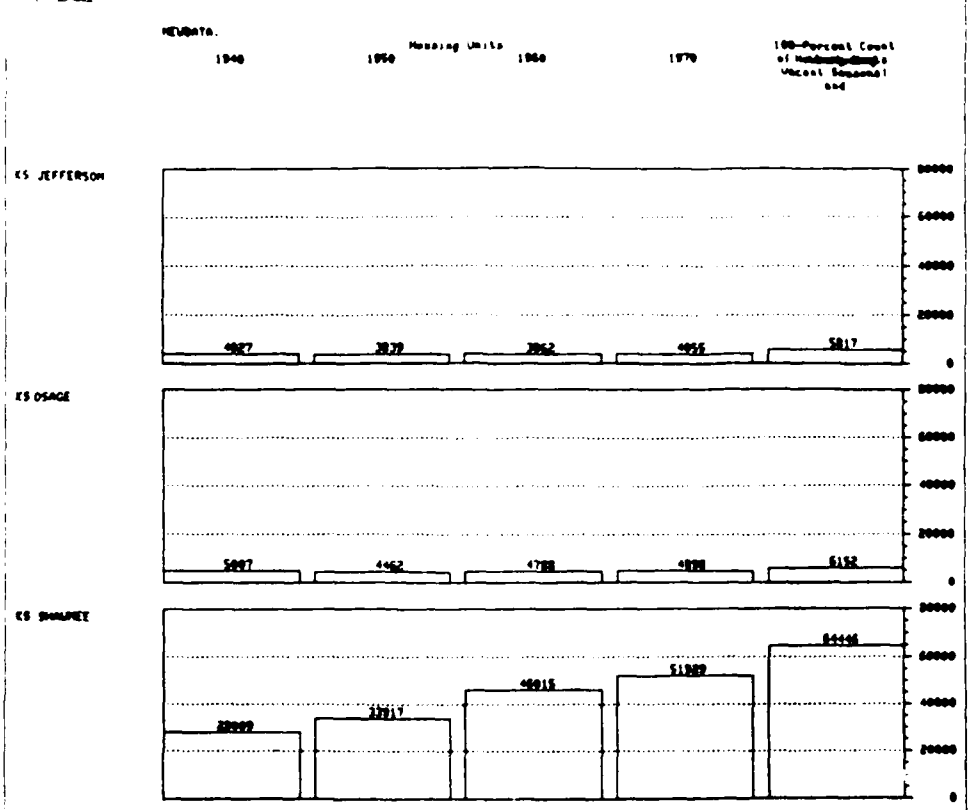
The next two pages demonstrate elementary formatting commands for the CHART system, including removing the grid on a bar chart, replacing a column label with a more readable one, and shading a chart with a cross-hatched grid.

The 'backup' command restores the masked columns

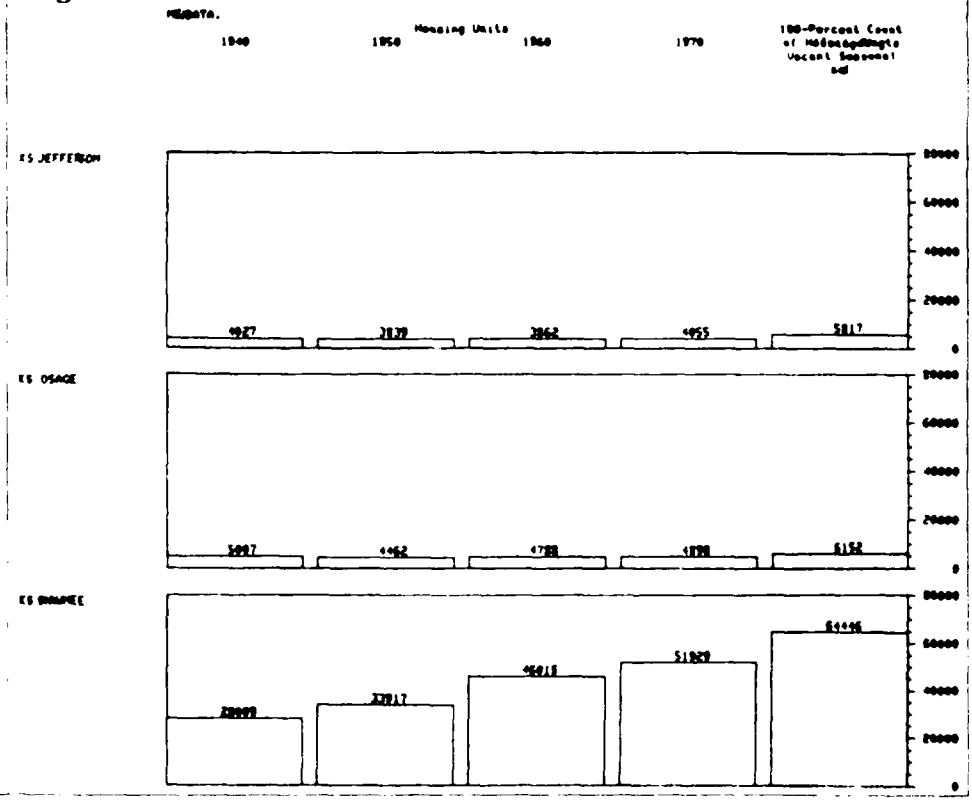
```
. backup
. mask col 1-5 10 12-13
. plot report
```

NEWDATA.	1940	1950	Housing Units 1960	1970	100-Percent Count of Housing Units (Including Vacant Seasonal and
KS JEFFERSON	4627	3839	3862	4055	5817
KS OSAGE	5007	4462	4788	4898	6152
KS SHAWNEE	28009	37917	46015	51929	64446

bar



grid none

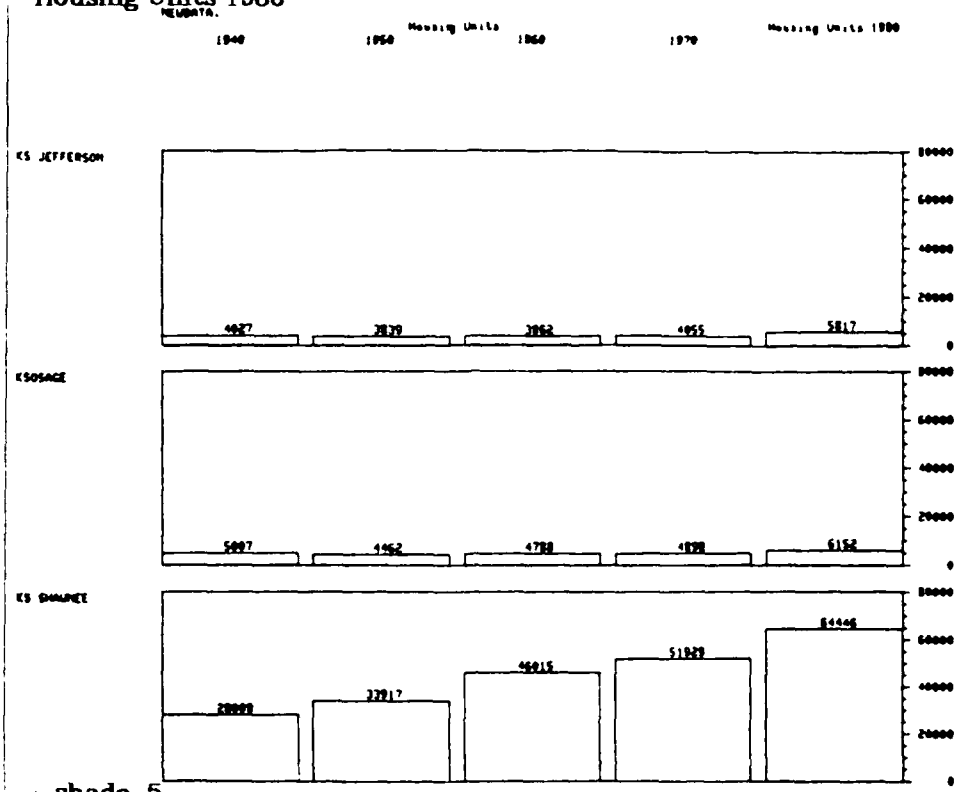


Replace the SEEDIS dictionary label with our own

: replace label col 5

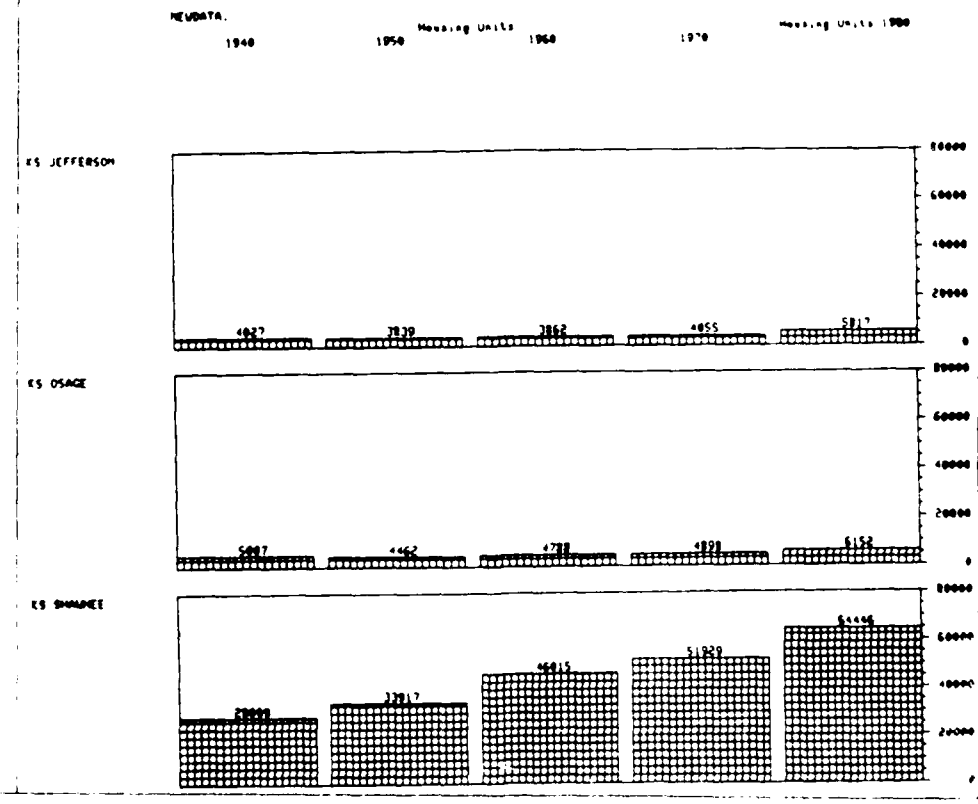
TYPE LABEL ON ONE LINE FOR COL 5

Housing Units 1980



Shades the graph with density between 0 and 1

: shade .5

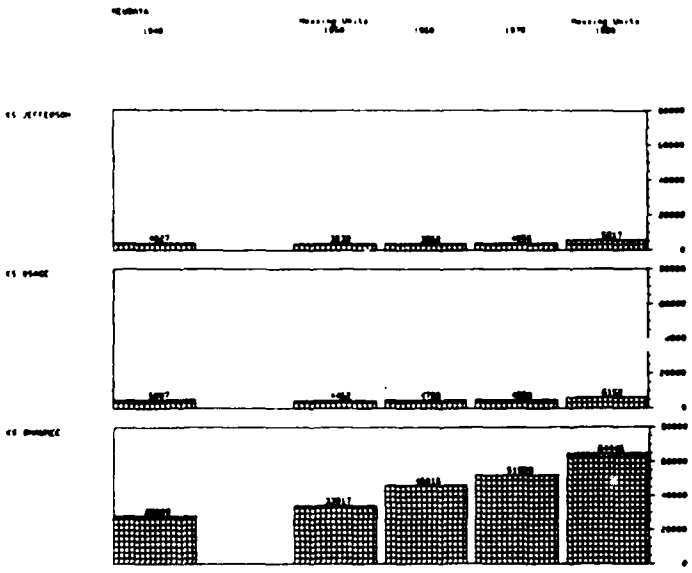


Using the CHART 'profile' command

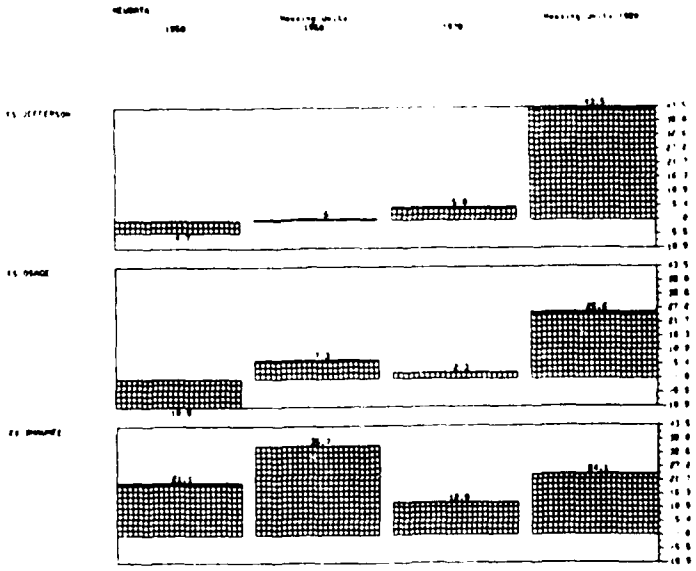
This final page demonstrates the power of CHART commands which can apply computation to all columns of a table simultaneously. In this case CHART will compute and display (profile) the percent change in housing units from 1940 to 1980.

The 'reference' command chooses a base for the computation

: **reference col previous**



: **profile column percent change**



. **quit**

. **quit**

. **quit**

$

DISPLAY: chart, list, map, plot, device

SEEDIS: area, data, display, profile

Transforming SEEDIS Work Files

During Fiscal Year 1984, LBL implemented a number of tools for *transforming* SEEDIS work files into self-describing files readable by other software. This helps facilitate downloading of files to microcomputers for analysis and display using software available there, or for export to other computers for use with widely available statistical software. This writeup will demonstrate the use of tools to transform to the SPSS (Statistical Package for the Social Sciences) input data format, and to the DIF (Data Interchange Format) format used by many microcomputer spreadsheet programs.

SEEDIS Work File (CODATA.DAT) Format

When a SEEDIS user types the "extract" command, a SEEDIS work file is created which contains only those areas he has specified with the AREA module, and only those data elements he has specified within the DATA module. This file resides in the user's space and has the name "CODATA.DAT" (the term "codata" stands for "common data", a format which is readable and writeable by the many modules within SEEDIS). Codata files are eye-readable character text files containing two logical parts: the data description file (DDF) and the data file (DF). The DDF contains file-level information about the number of geographic areas and the number of data elements. It also contains information about each data element, including a short name, a descriptive label, data type (integer, decimal, or alphanumeric), field length, and location in the record. This is schematically described in the following table:

Schematic Diagram of CODATA File Format

	Data Definition File (DDF)		**file info....**
	de 1 info	**de 2 info**	**...de n info**
	Data File (DF)		
record 1	**de 1 value**	**de 2 value**	**...de n value**
record 2	**de 1 value**	**de 2 value**	**...de n value**
record 3	**de 1 value**	**de 2 value**	**...de n value**
.			
.			
record m	**de 1 value**	**de 2 value**	**...de n value**

With this background in mind, the user can use the VAX *type* command to actually look at his SEEDIS work file, as shown below.

DDF Data Definition Files begins here

```
$ type codata.dat
NDE = 16
AREAS = 3
CARDLENGTH = 70
MISSING = -9.000000000 -9.000000000
FILE =#NEWDATA.#
FILE =#17-AUG-84#
*LEVEL = COUNTY
DE = FIPS.STATE
   TYPE = A
   USE = K
   START = 1
   LENGTH = 2
DE = FIPS.COUNTY
   TYPE = A
   USE = K
   START = 4
   LENGTH = 3
DE = STUB.GEO
   TYPE = A
   USE = S
   START = 8
   LENGTH = 33
DE = CCDBC0012
   TYPE = I
   USE = D
   START = 42
   LENGTH = 9
   HEADER =#Population 1940#
DE = CCDBC0013
   TYPE = I
   USE = D
   START = 52
   LENGTH = 9
   HEADER =#Population 1950#
DE = CCDBC0014
   TYPE = I
   USE = D
   START = 62
   LENGTH = 9
   HEADER =#Population 1960#
DE = CCDBC0015
   TYPE = I
   USE = D
   START = 71
   LENGTH = 9
   HEADER =#Population 1970#
DE = CCDBC0001
   TYPE = I
   USE = D
   START = 81
   LENGTH = 9
   HEADER =#Land Area in#
   HEADER =#Square Miles#
   HEADER =#1940#
DE = CCDBC0283
   TYPE = I
   USE = D
   START = 91
   LENGTH = 9
   HEADER =#Housing Units#
   HEADER =#1940#
```

```
DE = CCDBC0284
   TYPE = I
   USE = D
   START = 101
   LENGTH = 9
   HEADER =#Housing Units#
   HEADER =#1950#
DE = CCDBC0285
   TYPE = I
   USE = D
   START = 111
   LENGTH = 9
   HEADER =#Housing Units#
   HEADER =#1960#
DE = CCDBC0286
   TYPE = I
   USE = D
   START = 121
   LENGTH = 9
   HEADER =#Housing Units#
   HEADER =#1970#
DE = TAB3(1)
   TYPE = I
   USE = D
   START = 131
   LENGTH = 9
   HEADER =#100-Percent Count of Persons (1)#
   HEADER =#Universe: 100-Percent Count of Persons#
DE = TAB6(1)
   TYPE = I
   USE = D
   START = 141
   LENGTH = 9
   HEADER =#100-Percent Count of Housing Units #
   HEADER =#(Including Vacant Seasonal and #
   HEADER =#Migratory Units (1)#
   HEADER =#Universe: 100-Percent Count of Housing #
   HEADER =#Uni#
DE = NEWHOU81
   TYPE = I
   USE = D
   START = 151
   LENGTH = 5
   HEADER =#newhou81#
DE = NEWHOU82
   TYPE = I
   USE = D
   START = 157
   LENGTH = 5
   HEADER =#newhou82#
END DDF
```

Data File (DF) begins here

```
20 087 KS JEFFERSON                          12718    11084    11252
    11945      549     4027     3839        3862     4055    15207
     5817   40   40
20 139 KS OSAGE                              15118    12811    12886
    13352      721     5007     4462        4788     4898    15319
     6152   -9   -9
20 177 KS SHAWNEE                            91247   105418   141286
   155322      545    28009    33917       46015    51929   154916
    64446  360  361
```

Using the Transformation Tools

There are three tools to use to transform the SEEDIS work file (CODATA.DAT) into an export file format: *COSPSS* to transform into an SPSS input deck, *CODIF* to transform into a spreadsheet DIF file form, and *COSAS* to transform into a SAS input deck. The first two of these tools will be demonstrated; the third works in a similar fashion. All of the tools are used *outside* of SEEDIS, i.e. directly from the "$" prompt.

Following the conventions of the UNIX operating system and the software tools, the transformation tools operate on a single input file (usually CODATA.DAT) and produce a single output file. The input file name is immediately preceded by a "<" (left angle bracket) and the output file is immediately preceded by a ">" (right angle bracket). Thus the entire command is of the form:

$ tool <inputfile >outputfile

After the user has typed the command to invoke the tool, the transformed file "outputfile" should be in his workspace. The next example shows how to make an SPSS file from the sample CODATA file.

Start with 'cotools' to invoke the transformation tools

```
$ cotools
For CODATA tools documentation, type:
        coman coman
For latest test version, type:
        cotest
$ cospss <codata.dat >codata.sps
$ type codata.sps
run name        create spss
variable list   AAFIPSST ABFIPSCO ACSTUBGE ADCCDBC0 AECCDBC0
                AFCCDBC0 AGCCDBC0 AHCCDBC0 AICCDBC0 AJCCDBC0
                AKCCDBC0 ALCCDBC0 AMTAB31  ANTAB61  AONEWHOU
                APNEWHOU
var labels      AAFIPSST,
var labels      ABFIPSCO,
var labels      ACSTUBGE,
var labels      ADCCDBC0, Population 1940
comment         #
var labels      AECCDBC0, Population 1950
comment         #
var labels      AFCCDBC0, Population 1960
comment         #
var labels      AGCCDBC0, Population 1970
comment         #
var labels      AHCCDBC0, Land Area in Square Miles 1940
comment         #Square Mile
                #Square Mile
                Area
var labels      AICCDBC0, Housing Units 1940
comment         #1940 #
                ng Un
var labels      AJCCDBC0, Housing Units 1950
comment         #1950 #
                ng Un
var labels      AKCCDBC0, Housing Units 1960
comment         #1960 #
                ng Un
var labels      ALCCDBC0, Housing Units 1970
comment         #1970 #
                ng Un
var labels      AMTAB31 , 100-Percent #100-Percent C#100-Percent C
comment         #100-Percent Count of Person
                #100-Percent Count of Person
                Percent Count of Persons#100-Perc
```

```
var labels      ANTAB61 , 100-Per#  (Incl#  Migra#100-Per#  Units
comment         #  (Including Vacant Seasonal and#
                nits#  (Including Vacant Seaso
                t of Housing Uni
                 Units#  (Including Vacant S
                unt of Housing
var labels      AONEWHOU, newhou81
comment         #
var labels      APNEWHOU, newhou82
comment         #
input medium    card
n of cases      3
missing values  AAFIPSST("-9")/
                ABFIPSCO("-9")/
                ACSTUBGE("-9")/
                ADCCDBC0( -9 )/
                AECCDBC0( -9 )/
                AFCCDBC0( -9 )/
                AGCCDBC0( -9 )/
                AHCCDBC0( -9 )/
                AICCDBC0( -9 )/
                AJCCDBC0( -9 )/
                AKCCDBC0( -9 )/
                ALCCDBC0( -9 )/
                AMTAB31 ( -9 )/
                ANTAB61 ( -9 )/
                AONEWHOU( -9 )/
                APNEWHOU( -9 )
print formats   AAFIPSST(A)/
                ABFIPSCO(A)/
                ACSTUBGE(A)/
                ADCCDBC0(3)/
                AECCDBC0(3)/
                AFCCDBC0(3)/
                AGCCDBC0(3)/
                AHCCDBC0(3)/
                AICCDBC0(3)/
                AJCCDBC0(3)/
                AKCCDBC0(3)/
                ALCCDBC0(3)/
                AMTAB31 (3)/
                ANTAB61 (3)/
                AONEWHOU(3)/
                APNEWHOU(3)
input format    freefield
condescriptive  all
statistics      all
read input data
 '20','087','KS J',12718,11084,11252,11945,549,4027,3839,3862,4055,15207,5817,40,
40
 '20','139','KS O',15118,12811,12886,13352,721,5007,4462,4788,4898,15319,6152,-9,
-9
 '20','177','KS S',91247,105418,141286,155322,545,28009,33917,46015,51929,154916,
64446,360,361
finish
$
```

Creating a DIF file

In a similar fashion, use of the *CODIF* tool will transform a codata.dat work file into the microcomputer spreadsheet interchage format known as "DIF." The DIF format is somewhat arcane and space consuming, and hence not all of it is shown in this document. Files such as this have been tested by loading them into the LOTUS 1-2-3 spreadsheet package.

```
$ codif -h <codata.dat >codata.dif
$ type codata.dif
TABLE
0,1
"CODATA"
VECTORS
0,16
""
TUPLES
0,8
""
LABEL
1,1
"DE=FIPS.STATE"
LABEL
2,1
"DE=FIPS.COUNTY"
LABEL
3,1
"DE=STUB.GEO"
LABEL
4,1
"DE=CCDBC0012"
LABEL
5,1
"DE=CCDBC0013"
LABEL
6,1
"DE=CCDBC0014"
LABEL
7,1
"DE=CCDBC0015"
LABEL
8,1
"DE=CCDBC0001"
LABEL
9,1
"DE=CCDBC0283"
LABEL
10,1
"DE=CCDBC0284"
LABEL
11,1
"DE=CCDBC0285"
LABEL
12,1
"DE=CCDBC0286"
LABEL
13,1
"DE=TAB3(1)"
LABEL
14,1
"DE=TAB6(1)"
```

The **-h** flag in the **codif** command line serves to make the SEEDIS headers into data lines which will be displayed as column headers in the LOTUS spreadsheet.

```
LABEL
15,1
"DE=NEWHOU81"
LABEL
16,1
"DE=NEWHOU82"
DATA
0,0
""
-1,0
BOT
1,0
""
1,0
""
1,0
""
1,0
"#Population 1940#"
1,0
"#Population 1950#"
1,0
"#Population 1960#"
1,0
"#Population 1970#"
1,0
"#Land Area in#"
1,0
"#Housing Units#"
1,0
"#Housing Units#"
1,0
"#Housing Units#"
1,0
"#Housing Units#"
1,0
"#100-Percent Count of Persons#"
1,0
"#100-Percent Count of Housing Units#"
1,0
"#newhou81#"
1,0
"#newhou82#"
-1,0
```

Some definition not shown

```
. . . . . .
. . . . . .
. . . . . .
1,0
"#Square Miles#"
1,0
"#1940#"
1,0
"#1950#"
1,0
"#1960#"
1,0
"#1970#"
1,0
"#100-Percent Count of Persons#"
1,0
"#  (Including Vacant Seasonal and#"
. . . . . .
. . . . . .
. . . . . .
```

Beginning of actual data	BOT 1,0 "20" 1,0 "087" 1,0 "KS JEFFERSON" 0,12718 V 0,11084 V 0,11252 V 0,11945 V 0,549 V 0,4027 V 0,3839 V 0,3862 V 0,4055 V 0,15207 V 0,5817 V 0,40 V 0,40 V -1,0
Jefferson County data	BOT 1,0 "20" 1,0 "139" 1,0 "KS OSAGE" 0,15118 V 0,12811 V 0,12886 V 0,13352 V 0,721 V 0,5007 V 0,4462 V 0,4788 V 0,4898 V 0,15319 V 0,6152 V 0,-9 V 0,-9 V -1,0
Osage County data	

Shawnee County data	BOT 1,0 "20" 1,0 "177" 1,0 "KS SHAWNEE" 0,91247 V 0,105418 V 0,141286 V 0,155322 V 0,545 V 0,28009 V 0,33917 V 0,46015 V 0,51929 V 0,154916 V 0,64446 V 0,360 V 0,361 V -1,0 EOD

Using KERMIT to transfer SEEDIS data files

This section shows how the KERMIT file transfer program can be used to send SEEDIS data files from a SEEDIS VAX computer to a personal computer such as the IBM-PC. KERMIT is a public domain error-correcting, file transfer program developed by the Columbia University Computing Facility. This means that data files can be sent across noisy telephone lines and errors in data receiving are identified and the data is re-sent until it is received correctly on the other end. Another way of capturing SEEDIS data file might be to use the logging facility of a commercially available software package such as CROSSTALK. However, the logging may also capture extra characters which derive from telephone line noise.

For further information on KERMIT, read the June and July 1984 issues of BYTE magazine.

User invokes KERMIT from drive A of his PC, sets baud rate to desired speed, dials to SEEDIS computer

```
A> kermit
IBM-PC Kermit-MS ver 2.28
Type ? for help
Kermit-MS> set baud 1200
Kermit-MS> connect
[Connecting to host, type Control-]C to return to PC
Baud rate is 1200, connecting over port COM1]
(carriage return)

        LBLH - CSR VAX/VMS

Username: ARMYCORPS
Password:

        Welcome to LBLH - CSR VMS V4.2 VAX 11/780

    Last interactive login on Wednesday,  4-DEC-1985 12:51
    Last non-interactive login on Wednesday, 20-NOV-1985 13:18
          1 failure since last successful login
        **************
        System Shutdown:  None scheduled
        **************
        Disk usage for [212,027]  11739 used / 20000 maximum
You have Software Tools mail - use 'msg' to read
9/25/85   1982 Census of Agriculture
-----------------------------------
A new database (code CZ) has been installed in SEEDIS.  It provides the 1982
U.S. Census of Agriculture with many comparable items from the 1978 agricultural
census.  Over 3,500 items are available for each STATE and COUNTY in the U.S.
It requires the mounting of the disk pack CENSAGR001.  There are some known
spelling errors in the data dictionary which will be corrected soon.

7/10/85   1983 County & City Data Book
-------------------------------------
The 1983 County and City Data Book has been installed in SEEDIS.
The county portion is database code CX, currently available at COUNTY80
level of geography, and includes information from the 1978 Census of
Agriculture and the 1977 Business and Government censuses.
The city portion (for cities with population greater than 25,000)
has different data and hence is given a different data base code CY.
It is available at the PLACE80 level of geography. For further information
on either database, contact Fred Gey (FTS 451-6208) or
Esther Schroeder (FTS 451-5306)

If you have questions or problems using SEEDIS or want to obtain printed
output, please call Ilona Elnowski or Ann Gerken at (415) 642-6571 or
(FTS) 415-642-6571.
What's your last name ?
gey
Thank you gey
$
```

At this point the user can perform any operations he wishes to on the VAX computer, including invoking SEEDIS and retrieving data, converting work files to SPSS, DIF files, etc. When the user wants to send these files to his microcomputer, another KERMIT process on the VAX must be invoked. For reliable file transfer, there must be two KERMIT programs -- one on each machine -- which "talk" to each other according to a "protocol" in which each package of data sent is checked and acknowledged as having been received without errors. KERMIT on the VAX is initiated with the command (after the **$** prompt):

mcr kermit

KERMIT on the VAX responds with the prompt

Kermit-32>

which is what distinguishes it from the IBM-PC version of KERMIT (the latter uses the prompt Kermit-MS>). Once the user gets the "Kermit-32>" prompt he can issue the "send" command to transmit a file.

User sends all CODATA files (.* means all)	**$ mcr kermit** VMS Kermit-32 version 3.0.051 Default terminal for transfers is. _TXB7. Kermit-32>**send codata.***

Once the command to send files has been given to KERMIT32, the user must notify the KERMIT on his microcomputer to receive the data. This is done by an unusual sequence of characters (the **CTRL** key and the **]** (right bracket) key simultaneously, followed by the **c** key). This sequence is *not echoed* back to the user.

When the prompt Kermit-MS> is given, the user can start data transfer by typing the single word "receive." At this point the user's microcomputer will clear the screen and begin receiving data, informing the user of the progress in sending data "as it happens." When all data files have been received, the Kermit-MS> prompt will appear again, and the user should re-open his connection to the VAX by typing "connect."

typed in but not echoed	**CTRL/] C** [back at micro] Kermit-MS> **receive** CUCCA IBM-PC Kermit-MS ver 1.20 Number of packets 57 Waiting ..... Number of retries 0 File name CODATA.DIF Kermit-MS> **connect**

At this point the user can quit from the VAX version of KERMIT by typing "exit". He can then log out and return to his PC and exit from the PC version of KERMIT. The user is then ready to use his files locally on his pc.

```
[Connecting to host, type Control-]C to return to PC
Baud rate is 1200, connecting over port COM1]
CR
Kermit-32> exit
$ lo
  ARMYCORPS    logged out at  5-SEP-1984 16:45:05.81
CTRL/] C
[back at micro]
Kermit-MS> exit
A>
```

SMALL AREA DATA - Cities and Towns

Introduction to Small Area Data

Often, in geographically-oriented studies, data summarized at the county level is too aggregate for projects having localized social and environmental impact. SEEDIS offers the capability of retrieving background profiles and extracting data elements for a number of geographical units *below* the county in size. In many cases the only data available for sub-county areas is that supplied by the Census Bureau, primarily from the decennial censuses. Thus data records are identified by geographic units defined by the Census Bureau (minor civil divisions (MCD), enumeration districts, places, census tracts). Usually the exact indentification of these areas requires the use of the Census Map Series for the local areas being studied. The following is a brief summary of descriptions of areas for which census data may be retrieved from SEEDIS:

PLACE AND MINOR CIVIL DIVISION LEVELS

Level	Geographic Level Description	Year	Scope
PLACE80	Places, Census	1980	US
CYPL80	COUNTY80/PLACE80 pieces	1980	US
MCD80	Minor Civil Divisions	1980	US
	Census County Divisions		
MCDPL80	MCD80/PLACE80 pieces	1980	US

SMALLER SUBCOUNTY LEVELS

Level	Geographic Level Description	Year	Scope
EDBG80PT2	Enum Dist & Block Group pieces	1980	US
TRACT80	Census Tracts	1980	US
TRACT80PT	MCD80/PLACE80/TRACT80 pieces	1980	US

A **place** is a city or town, either incorporated or unincorporated, for which the Census Bureau has created a definition and summarized data. These definitions have changed over time (particularly from 1970 to 1980) and so SEEDIS designates the 1980 definitions of places with the geographic level **PLACE80**. There are approximately 50,000 of these defined areas (with 1 or more 1980 population) for which the Census Bureau tabulated data from the 1980 Decennial Census. SEEDIS has installed both STF1 and STF3 data for these places through the use of its *cache* system (described further in Appendix B).

In the following example the user accesses information for towns in the Topeka SMSA which were identified in the Census Bureau construction reports. The level of geography chosen is place80.

user requests seedis

```
$ seedis
                    ------------------------------------------------------------
                    WELCOME TO SEEDIS, VERSION 1.4
                    ------------------------------------------------------------
                    At any point in Seedis, you can type the following global
                    commands to get these services:

Input               Description
------------------- ------------------------------------------------------------
?                   list and describe commands in this menu
help                describe the purpose of this menu's commands
show                list and explain items to be selected
review              list current session status and history
cancel              delete current selections (depends upon context)
quit                return to previous menu
*<comment>          enter a comment in Seedis log
control-T           check process (CPU = time in central processing unit)
control-Y           abort process, return to operating system

                    Please stand by. Your menu prompt will be here shortly.

                    SEEDIS: area, data, display, profile
```

user chooses area

```
: area
                    AREA: nation, state, county, county80, <other level>
: place80
                    AREA: <state>, us, us+, fr<nn>
: kansas
                    KANSAS
                    AREA: <place(s)>, all
```

user selects places by name

```
: mclouth,meriden,nortonville,oskaloosa,ozawkie,valley falls
                         MCLOUTH CITY
                         MERIDEN CITY
                         NORTONVILLE CITY
                         OSKALOOSA CITY
                         OZAWKIE CITY
                         VALLEY FALLS CITY
                    AREA: <place(s)>, all
: auburn,rossville,silver lake,topeka
                         AUBURN CITY
                         ROSSVILLE CITY
                         SILVER LAKE CITY
                         TOPEKA CITY
                    AREA: <place(s)>, all
: quit
                    AREA: <state>, us, us+, fr<nn>
: quit

                    SEEDIS: area, data, display, profile
: data
```

reminder that extraction uses disk cache

```
                    PLACE80 level data extraction uses disk cache.

                    DATA: <database code>, extract, newdata, query, model
: show
```

user requests list of available data

```
                    DATABASE CODES FOR PLACE80 LEVEL

Code Database Title                          Scope Vars    Access
---- ------------------------------------- ----- ------- -------
BX   1980 Population by Race                 US       11 cache
CA   1980 Census: Summary Tape File 1        US      342 cache
CF   1980 Census: Summary Tape File 3        US     1153 cache
CG   1980 Census: Equal Emp Opportunity      US    13188 cache
CL   1980 Census: STF4 Pop Record A          50ST   1024 cache
CM   1980 Census: STF4 Pop Record B          NONE  77805 cache
CN   1980 Census: STF4 Hous Record A         12ST   3905 cache
CO   1980 Census: STF4 Hous Record B         NONE  61503 cache
```

user chooses STF1, database code CA

```
                    DATA: <database code>, extract, newdata, query, model
: ca
-----------------------------------------------------------------------------
!STF1               1980 CENSUS: SUMMARY TAPE FILE 1
-----------------------------------------------------------------------------
Database Code       CA

Geographic Levels   CD97      CNTY7080  MCD80     PLACE80   TRACT80PT COUNTY
                    CYPL80    MCDPL80   PRSP83    STATE     COUNTY80  EDBG80PT2
                    NATION80  CENREG    CENDIV    SCSA81    STSCSA81  SMSA81
                    STSMSA81  UA80      STUA80    FED

Geographic Scope    US (only 32 states for level EDBG80PT2)

Directory Authors   L. Wong, I. Ejnowski, D. Merrill, A. Marcus, E. Schroeder
                    Lawrence Berkeley Laboratory, Berkeley, CA

Data Source         Census of Population and Housing, 1980, Census Bureau

Last Update         7 August 1984

Documentation       $ copy disk$seedis004:[seedis.seedict]stf1.sof *.*
                    $ @sy$seedis:[seedis.docs]soff stf1 print

                    DATA: <line letter(s)>, table, <page number>, CR
: table
CA                  1980 Census: STF1                          Page   2 of 325

                PAGE TABLE OF CONTENTS
                ---- ---------------------------------------------------------
                   1 Title Page
                   2 Table of Contents
                   8 Subject Matter Description
                   9 Known Errors and Omissions
                  16 Table Titles by Universe
                  24 Data Elements
                  25      Table Descriptions
                  25           Tab1: Urban and Rural (3)
                  25           Tab2: Families (1)
                  25           Tab3: Households (1)
                  26           Tab4: Urban and Rural (3)
                  26           Tab5: Occupancy Status (3)
                  27           Tab6: Sex (2)
                  27           Tab7: Race (15)
                  29           Tab8: Spanish Origin (5)
                  29           Tab9: Race (5)
                  30           Tab10: Sex (2) by Age (26)
```

user requests table of contents

user moves to page 25

```
                    DATA: <line letter(s)>, table, <page number>, CR
  25
CA                  1980 Census: STF1                          Page  25 of 325
                    TAB1. URBAN AND RURAL (3)
                    Universe: Persons
                    NOTE: Urban is derived by subtracting rural from total.
   Data Element Sup     Urban is not equal to "inside urbanized areas."
   ------------ --- ------------------------------------------------------
A  !TAB1(1)         Total
B  !TAB1(2)         Inside urbanized areas
C  !TAB1(3)         Rural

                    TAB2. FAMILIES (1)
   Data Element Sup Universe: Families
   ------------ --- ------------------------------------------------------
D  !TAB2(1)      10 Families

                    TAB3. HOUSEHOLDS (1)
   Data Element Sup Universe: Households *1
   ------------ --- ------------------------------------------------------
E  !TAB3(1)         Households

                    DATA: <line letter(s)>, table, <page number>, CR
: a
                    Number of data elements selected is 1

                    DATA: <line letter(s)>, table, <page number>, CR
: CR
CA                  1980 Census: STF1                          Page  26 of 325
                    TAB4. URBAN AND RURAL (3)
                    Universe: Housing Units (Including Vacant
                         Seasonal And Migratory Units) *2
                    NOTE: Urban is derived by substracting rural from total.
   Data Element Sup     Urban is not equal to "inside urbanized areas."
   ------------ --- ------------------------------------------------------
A  !TAB4(1)         Total
B  !TAB4(2)         Inside urbanized areas
C  !TAB4(3)         Rural

                    TAB5: OCCUPANCY STATUS (3)
   Data Element Sup Universe: Year-Round Housing Units
   ------------ --- ------------------------------------------------------
D  !TAB5(1)         Total
E  !TAB5(2)              Occupied *1
F  !TAB5(3)              Vacant

                    DATA: <line letter(s)>, table, <page number>, CR
: a
                    Number of data elements selected is 1

                    DATA: <line letter(s)>, table, <page number>, CR
: review
                    Data elements selected for this database: 2
                    TAB1(1)              TAB4(1)

                    DATA: <line letter(s)>, table, <page number>, CR
: quit
```

select line letter A:total population

next screen

select line letter A:total housing units

requests list of selected items

user finishes data selection

retrieves data selected SEEDIS reports number and location of necessary files	: **extract**	DATA: <database code>, extract, newdata, query, model Checking data availability. 4 files are required. 4 files are in disk cache.
data are extracted and ready to be displayed	: **quit**	DATA: <database code>, extract, newdata, query, model
	: **display**	SEEDIS: area, data, display, profile
requests list of available device types	: **show**	DISPLAY/TERMINAL: <graphic output device>
	Output Device	Description
	4010	Tektronix 4010 or 4012 terminal
	4014	Tektronix 4014 or 4016 terminal (left margin = - 3)
	4027	Tektronix 4025 or 4027 terminal
	4027f	Tektronix 4027 terminal, shading by patterns
other is best choice for paper terminals	admrg	LSI ADM3A terminal with retro-graphics board
	vt125	DEC VT125 terminal (left margin = -.6)
	other	other generic non-graphic terminal
	ramtek	Ramtek 9400 Video Frame Buffer basic color selection
	ramtek2	Ramtek 9400 Video Frame Buffer enhanced color selection
	ramtek3	Ramtek 9400 Video Frame Buffer most detailed color selection
	isi	ISI Video Frame Buffer
	varian	Varian printer/plotter
	printer	line printer
	intermediate	coded intermediate file, for miscellaneous devices
	dc	31x20 mm color slide (left margin = -.48)
	dl	75x60 mm color transparency (left margin = -.25)
	ds	77x62 mm Polaroid color print (left margin = 0)
	: **other**	DISPLAY/TERMINAL: <graphic output device>
selects option for tabular listing	: **list**	DISPLAY: chart, list, map, plot, device
	: **type**	DISPLAY/LIST: page, type, print

The SEEDIS caching process can vary from 5-15 minutes for data extraction, to overnight for files not found in the disk cache and which must be fetched from computer tape. Appendix B illustrates procedures for leaving SEEDIS when the caching operating begins, and returning after your data has been retrieved.

```
                                    FIPS.STATE     FIPS.PLACE80

KS AUBURN CITY                          20             0157
KS MCLOUTH CITY                         20             1740
KS MERIDEN CITY                         20             1855
KS NORTONVILLE CITY                     20             2080
KS OSKALOOSA CITY                       20             2170
KS OZAWKIE CITY                         20             2202
KS ROSSVILLE CITY                       20             2465
KS SILVER LAKE CITY                     20             2640
KS TOPEKA CITY                          20             2795
KS VALLEY FALLS CITY                    20             2860
```

SEEDIS automaically formats the report with column titles

```
                                     TAB1(1)          TAB4(1)

                                Urban-Rural      Urban-Rural
                             Status   Total   Status Housing
                                    Persons Units Including

KS AUBURN CITY                          890             288
KS MCLOUTH CITY                         700             305
KS MERIDEN CITY                         707             269
KS NORTONVILLE CITY                     692             270
KS OSKALOOSA CITY                      1092             425
KS OZAWKIE CITY                         472             183
KS ROSSVILLE CITY                      1045             366
KS SILVER LAKE CITY                    1350             460
KS TOPEKA CITY                       115266           50371
KS VALLEY FALLS CITY                   1189             513

                    DISPLAY/LIST: page, type, print
: quit

                    DISPLAY: chart, list, map, plot, device
: quit

                    SEEDIS: area, data, display, profile
: quit
$
```

APPENDIX A

SEEDIS PROFILE EXAMPLES

1977 CITY COUNTY DATA BOOK
FAMILIES, INCOME AND HOUSING PROFILE
KS JEFFERSON

FAMILY, INCOME

	1950	1960	1970
Number of Families	3,080	3,011	3,197
Percent Low Income 1/	50.4%	33.7%	14.4%
Median Family Income ($)	1,983	4,287	8,346

PUBLIC ASSISTANCE RECIPIENTS

	1972	1976
AFDC	89	270
AFDC children		182
Average Monthly Payments/Fam ($)	165	246
SSI		
Total		145
Aged		84
Payments Total/Mo. ($000)		[2]

HOUSING

	1940	1950	1960	1970
Total Housing Units	4,027	3,839	3,862	4,055
Percent built since last census		5.7%	12.6%	24.8%
Occupied units	3,748	3,530	3,473	3,771
Owner occupied	52.2%	69.6%	76.0%	79.6%
Median/Mean occupants	3.0md	2.7md	3.2mn	3.1mn
Median value owner-occupied ($)			5,800	11,397
Median rent ($)			60	87
mobility (% moved into in last 5 years)				45.0%

CONSTRUCTION (1975-1976)

New private units authorized	164
% single units	96.3
% 5+ units	0.0
Total permit value ($000)	4,145
Average per unit ($/unit)	25,274

1/ low income defined as under $2000 for 1950 and as under $3000 for 1960 and 1970
[n] denotes a suppression flag of value n

1977 CITY COUNTY DATA BOOK
BUSINESS AND INDUSTRY PROFILE
KS JEFFERSON

	1954	1958	1963	1967	1972
Manufacturing					
establishments	6	11	11	12	13
payroll ($000)	409	401	257	300	[2]
value add ($000)	436	860	510	600	[2]
new cap exp $000	28	0	16	100	[2]
employees	119	99	66	100	[2]
production workers	97	75	51	0	[2]
Retail Trade					
establishments	136	134	126	109	145
sales ($000)	7,884	8,097	8,788	9,549	12,290
payroll ($000)	545	559	678	760	794
employees	283	261	237	228	253
Selected Services					
establishments	44	49	53	71	79
receipts ($000)	222	422	435	567	1,214
payroll ($000)	24	36	48	64	182
employees	18	21	23	28	58
Wholesale Trade					
establishments	17	18	10	7	17
sales ($000)	0	2,295	2,291	2,797	8,200
payroll ($000)	0	131	68	103	438
employees	0	32	19	20	66
Mineral Industries					
establishments		2	2	4	1
payroll ($000)		0	0	[1]	[1]
ship val ($000)	0	0	0	[1]	[1]
value add ($000)			0		[1]
cap exp ($000)				0	
employees		0	0	[1]	[1]

[n] denotes a suppression flag of value n

1977 CITY COUNTY DATA BOOK
FAMILIES, INCOME AND HOUSING PROFILE
KS OSAGE

FAMILY, INCOME

	1950	1960	1970
Number of Families	3,525	3,549	3,630
Percent Low Income 1/	46.5%	37.5%	15.7%
Median Family Income ($)	2,104	3,939	7,553

PUBLIC ASSISTANCE RECIPIENTS

	1972	1976
AFDC	118	328
AFDC children		235
Average Monthly Payments/Fam ($)	114	225
SSI		
Total		149
Aged		96
Payments Total/Mo. ($000)		[2]

HOUSING

	1940	1950	1960	1970
Total Housing Units	5,007	4,462	4,788	4,898
Percent built since last census		3.7%	10.4%	17.5%
Occupied units	4,625	4,006	4,227	4,475
Owner occupied	58.7%	75.1%	76.6%	79.6%
Median/Mean occupants	2.9md	2.5md	3.0mn	2.9mn
Median value owner-occupied ($)			5,100	7,709
Median rent ($)			59	89
mobility (% moved into in last 5 years)				43.4%

CONSTRUCTION (1975-1976)

New private units authorized	113
% single units	69.9
% 5+ units	26.5
Total permit value ($000)	2,317
Average per unit ($/unit)	20,504

1/ low income defined as under $2000 for 1950 and as under $3000 for 1960 and 1970
[n] denotes a suppression flag of value n

1977 CITY COUNTY DATA BOOK
BUSINESS AND INDUSTRY PROFILE
KS OSAGE

	1954	1958	1963	1967	1972
Manufacturing					
establishments	10	11	16	13	10
payroll ($000)	108	106	166	[2]	[2]
value add ($000)	212	94	1,387	[2]	[2]
new cap exp $000	8	13	38	[2]	[2]
employees	62	48	191	[2]	[2]
production workers	46	39	164	[2]	[2]
Retail Trade					
establishments	210	178	186	166	176
sales ($000)	10,218	11,051	12,835	14,250	19,179
payroll ($000)	612	744	992	1,229	1,612
employees	295	353	371	407	406
Selected Services					
establishments	69	75	90	98	105
receipts ($000)	420	678	858	994	1,504
payroll ($000)	31	94	73	112	206
employees	32	61	31	36	50
Wholesale Trade					
establishments	19	23	20	17	23
sales ($000)	5,173	5,869	8,779	5,072	16,200
payroll ($000)	96	129	176	212	886
employees	48	41	69	43	137
Mineral Industries					
establishments		5	6	0	0
payroll ($000)		0	0	0	0
ship val ($000)	407	0	0	0	0
value add ($000)			0		0
cap exp ($000)				0	
employees		0	0	0	0

[n] denotes a suppression flag of value n

1977 CITY COUNTY DATA BOOK
FAMILIES, INCOME AND HOUSING PROFILE
KS SHAWNEE

FAMILY INCOME

	1950	1960	1970
Number of Families	28,135	36,369	39,516
Percent Low Income 1/	21.1%	15.9%	7.4%
Median Family Income ($)	3,255	5,931	9,658

PUBLIC ASSISTANCE RECIPIENTS

	1972	1976
AFDC	5,215	6,897
AFDC children		4,935
Average Monthly Payments/Fam ($)	172	242
SSI		
Total		1,710
Aged		591
Payments Total/Mo. ($000)		124

HOUSING

	1940	1950	1960	1970
Total Housing Units	28,009	33,917	46,015	51,929
Percent built since last census		16.6%	31.1%	25.7%
Occupied units	26,376	32,774	43,625	49,986
Owner occupied	49.6%	65.4%	66.5%	64.3%
Median/Mean occupants	2.9md	2.7md	3.1mn	3.1mn
Median value owner-occupied ($)			11,600	14,911
Median rent ($)			76	109
mobility (% moved into in last 5 years)				55.7%

CONSTRUCTION (1975-1976)

New private units authorized	1,930
% single units	76.6
% 5+ units	10.8
Total permit value ($000)	60,199
Average per unit ($/unit)	31,191

1/ low income defined as under $2000 for 1950 and as under $3000 for 1960 and 1970

1977 CITY COUNTY DATA BOOK
BUSINESS AND INDUSTRY PROFILE
KS SHAWNEE

	1954	1958	1963	1967	1972
Manufacturing					
establishments	138	137	135	141	134
payroll ($000)	23,711	29,642	40,254	58,200	86,000
value add ($000)	56,929	74,488	100,662	168,900	231,100
new cap exp $000	3,138	6,272	8,515	16,000	[2]
employees	6,010	6,185	6,588	8,300	9,200
production workers	4,243	4,209	4,832	6,200	7,000
Retail Trade					
establishments	1,295	1,274	1,186	1,368	1,628
sales ($000)	143,516	169,294	196,024	249,001	396,880
payroll ($000)	17,156	19,890	24,203	30,182	49,287
employees	6,920	7,570	7,517	8,483	10,444
Selected Services					
establishments	562	780	722	858	1,320
receipts ($000)	14,714	20,145	26,858	35,093	70,924
payroll ($000)	4,396	5,680	7,651	11,211	21,270
employees	2,030	2,407	2,380	3,289	4,245
Wholesale Trade					
establishments	180	193	229	214	236
sales ($000)	110,136	141,776	208,112	231,368	363,100
payroll ($000)	7,928	9,682	14,001	17,397	27,566
employees	2,001	2,108	2,580	2,640	2,890
Mineral Industries					
establishments		11	14	8	17
payroll ($000)		271	492	[1]	[1]
ship val ($000)	740	819	1,829	[1]	[1]
value add ($000)			1,406		[1]
cap exp ($000)				139	
employees		58	103	[1]	[1]

[n] denotes a suppression flag of value n

1977 CITY COUNTY DATA BOOK
BUSINESS AND INDUSTRY PROFILE
AGGREGATION OF ALL AREAS RETRIEVED

	1954	1958	1963	1967	1972
Manufacturing					
establishments	154	159	162	166	157
payroll ($000)	24,228	30,149	40,677	58,500*	86,000*
value add ($000)	57,577	75,442	102,559	169,500*	231,100*
new cap exp $000	3,174	6,285	8,569	16,100*	*
employees	6,191	6,332	6,845	8,400*	9,200*
production workers	4,386	4,323	5,047	6,200*	7,000*
Retail Trade					
establishments	1,641	1,586	1,498	1,643	1,949
sales ($000)	161,618	188,442	217,647	272,800	428,349
payroll ($000)	18,313	21,193	25,873	32,171	51,693
employees	7,498	8,184	8,125	9,118	11,103
Selected Services					
establishments	675	904	865	1,027	1,504
receipts ($000)	15,356	21,245	28,151	36,654	73,642
payroll ($000)	4,451	5,810	7,772	11,387	21,658
employees	2,080	2,489	2,434	3,353	4,353
Wholesale Trade					
establishments	216	234	259	238	276
sales ($000)	115,309	149,940	219,182	239,237	387,500
payroll ($000)	8,024	9,942	14,245	17,712	28,890
employees	2,049	2,181	2,668	2,703	3,093
Mineral Industries					
establishments		18	22	12	18
payroll ($000)		271	492	*	*
ship val ($000)	1,147	819	1,829	*	*
value add ($000)			1,406		*
cap exp ($000)				139	
employees		58	103	*	*

* aggregation includes only non-suppressed data

The following suppression flags may be encountered in the PROFILES where data is taken from the 1977 CITY COUNTY DATA BOOK
The suppression flags are

[1] no data - not available
[2] no data - suppressed for confidentiality purposes
[3] no data - not applicable
[6] no data - geographic unit not incorporated at the time to which this item refers
[7] no data - data [illegible] less than 100

1980 Census STF1
SEEDIS Run on 10 Jan 1985
Lawrence Berkeley Laboratory

Report 1A: Population and Housing Part 1
Jefferson County
Kansas

Population by Race, Origin, Marital Status

Universe: Persons	Number	Percent
Population by Race, including Hispanics	15,207	100.0
White	14,997	98.6
Black	51	0.3
Native American	110	0.7
American Indian	110	0.7
Eskimo	-	-
Aleut	-	-
Asian and Pacific Islander (4)	21	0.1
Japanese	4	-
Chinese	1	-
Filipino	1	-
Korean	3	-
Asian Indian	1	-
Vietnamese	11	0.1
Hawaiian	-	-
Guamanian	-	-
Samoan	-	-
Remaining Races (3)	28	0.2
Population by Race, excluding Hispanics	15,127	100.0
White, not Hispanic	14,937	98.7
Black, not Hispanic	51	0.3
Nat Amer and Asian/Pac Isl, not Hisp (4)	130	0.9
Remaining Races, not Hispanic (3)	9	0.1
Population by Origin, including all races	15,207	100.0
Hispanic	80	0.5
Mexican	59	0.4
Puerto Rican	-	-
Cuban	-	-
Other Hispanic	21	0.1
Hispanic by Race	80	100.0
White	60	75.0
Black	-	-
Native American, and Asian/Pac Isl (4)	1	1.3
Remaining Races (3)	19	23.8

Universe: Persons 15 Years and Over	Number	Percent
Population by Marital Status	11,625	100.0
Married, including Separated	7,990	68.7
Never-Married	2,249	19.3
Divorced and Widowed	1,386	11.9

Housing Characteristics

Universe: Housing Units	Number	Percent
Total Housing Units (2)	5,817	
Year-Round Housing Units	5,698	100.0
Condominium Units	12	0.2
Incomplete Plumbing for exclusive use (13)	188	3.3
Occupied Housing Units (1)	5,297	93.0
Median Persons per Unit (7)	2	
Homeowner Vacancy Rate	1.7	
Renter Vacancy Rate	11.5	

Population, Household, Housing Characteristics Report 1a:Part II
1980 Census, STF 1 Jefferson County
SEEDIS run date 10 Jan 1985 Kansas
Lawrence Bekeley Laboratory

Population and Household Characteristics

Universe: Persons	Male	Percent	Female	Percent
Population by Age/Sex	7,564	100.0	7,643	100.0
0-4 Years	568	7.5	485	6.3
5-13 Years	1,167	15.4	1,082	14.2
14-15 Years	303	4.0	278	3.6
16 Years and Over	5,526	73	5,798	76
16-17 Years	325	4.3	337	4.4
18-19 Years	230	3.0	194	2.5
20-21 Years	170	2.2	183	2.4
22-24 Years	282	3.7	287	3.8
25-34 Years	1,105	14.6	1,141	14.9
35-44 Years	937	12.4	904	11.8
45-54 Years	781	10.3	735	9.6
55-64 Years	741	9.8	795	10.4
65-74 Years	574	7.6	608	8.0
75 Years and Over	381	5.0	614	8.0
Median Age in Years	31.8		33.7	

Universe: Households	Number	Percent
Total Households (1)	5,297	100.0
1 Person Household	972	18.4
Male Householder	355	6.7
Female Householder	617	11.6
2 or More Person Household	4,325	81.6
Married-couple Family	3,889	73.4
Other Family	369	7.0
Male Householder, no Wife Present	110	2.1
Female Householder, no Husband Present	259	4.9
Nonfamily Households	67	1.3
Male Householder	47	0.9
Female Householder	20	0.4
Total Households w/ Persons Age 65+ (7)	1,441	100.0
1 Person Household	564	39.1
2 or More Person Household	877	60.9
Total Households w/ Persons Under Age 18	2,265	100.0
Married-Couple Family	2,040	90.1
Other Family	218	9.6
Male Householder, no Wife Present	48	2.1
Female Householder, no Husband Present	170	7.5
Nonfamily Households	7	0.3

Housing Characteristics

Universe: Occupied Housing Units	Number	Percent
Occupied Housing Units	5,297	100.0
With 1.01 or more Persons per Room	127	2.4
Owner Occupied	4,472	84.4
Lack Complete Plumbing for exclusive use (13)	99	[illegible]
Median Value in Dollars (11)	36000.0	
Renter Occupied	825	[illegible]
Lack Complete Plumbing for exclusive use (13)	36	[illegible]
Median Contract Rent in Dollars (12)	[illegible]	

1980 Census STF1 | Report 1A: Population and Housing Part 1

SEEDIS Run on 10 Jan 1985 | Osage County
Lawrence Berkeley Laboratory | Kansas

Population by Race, Origin, Marital Status

Universe: Persons	Number	Percent
Population by Race, including Hispanics	15,319	100.0
White	15,154	98.9
Black	18	0.1
Native American	47	0.3
American Indian	47	0.3
Eskimo	-	-
Aleut	-	-
Asian and Pacific Islander (4)	26	0.2
Japanese	5	-
Chinese	1	-
Filipino	9	0.1
Korean	3	-
Asian Indian	6	-
Vietnamese	1	-
Hawaiian	1	-
Guamanian	-	-
Samoan	-	-
Remaining Races (3)	74	0.5
Population by Race, excluding Hispanics	15,171	100.0
White, not Hispanic	15,059	99.3
Black, not Hispanic	18	0.1
Nat Amer and Asian/Pac Isl, not Hisp (4)	72	0.5
Remaining Races, not Hispanic (3)	22	0.1
Population by Origin, including all races	15,319	100.0
Hispanic	148	1.0
Mexican	116	0.8
Puerto Rican	14	0.1
Cuban	-	-
Other Hispanic	18	0.1
Hispanic by Race	148	100.0
White	95	64.2
Black	-	-
Native American, and Asian/Pac Isl (4)	1	0.7
Remaining Races (3)	52	35.1

Universe: Persons 15 Years and Over	Number	Percent
Population by Marital Status	11,838	100.0
Married, including Separated	8,099	68.4
Never-Married	2,152	18.2
Divorced and Widowed	1,587	13.4

Housing Characteristics

Universe: Housing Units	Number	Percent
Total Housing Units (2)	6,152	
Total Year-Round Housing Units	5,997	100.0
Condominium Units	-	-
Lack Complete Plumbing for exclusive use (13)	150	2.5
Occupied Housing Units (1)	5,600	93.4
Median Persons per Unit (7)	2	
Homeowner Vacancy Rate	1.7	
Rental Vacancy Rate	10.2	

Population, Household, Housing Characteristics Report 1a:Part II
1980 Census, STF 1 Osage County
SEEDIS run date 10 Jan 1985 Kansas
Lawrence Bekeley Laboratory

Population and Household Characteristics

Universe: Persons	Male	Percent	Female	Percent
Population by Age/Sex	7,551	100.0	7,768	100.0
0-4 Years	579	7.7	549	7.1
5-13 Years	1,106	14.6	1,006	13.0
14-15 Years	269	3.6	251	3.2
16 Years and Over	5,597	74	5,962	77
16-17 Years	321	4.3	262	3.4
18-19 Years	251	3.3	237	3.1
20-21 Years	206	2.7	186	2.4
22-24 Years	338	4.5	344	4.4
25-34 Years	1,064	14.1	1,077	13.9
35-44 Years	830	11.0	830	10.7
45-54 Years	789	10.4	762	9.8
55-64 Years	732	9.7	789	10.2
65-74 Years	630	8.3	741	9.5
75 Years and Over	436	5.6	734	9.4
Median Age in Years	31.7		34.7	

Universe: Households	Number	Percent
Total Households (1)	5,600	100.0
1 Person Household	1,251	22.3
Male Householder	437	7.8
Female Householder	814	14.5
2 or More Person Household	4,349	77.7
Married-couple Family	3,927	70.1
Other Family	345	6.2
Male Householder, no Wife Present	82	1.5
Female Householder, no Husband Present	263	4.7
Nonfamily Households	77	1.4
Male Householder	58	1.0
Female Householder	19	0.3
Total Households w/ Persons Age 65+ (7)	1,693	100.0
1 Person Household	768	45.4
2 or More Person Household	925	54.6
Total Households w/ Persons Under Age 18	2,238	100.0
Married-Couple Family	2,005	89.6
Other Family	225	10.1
Male Householder, no Wife Present	41	1.8
Female Householder, no Husband Present	184	8.2
Nonfamily Households	8	0.4

Housing Characteristics

Universe: Occupied Housing Units	Number	Percent
Occupied Housing Units	5,600	100.0
With 1.01 or more Persons per Room	131	2.3
Owner Occupied	4,591	82.0
Lack Complete Plumbing for excl use (13)	78	1.4
Median Value in Dollars (11)	31300.0	
Renter Occupied	1,009	18.0
Lack Complete Plumbing for excl use (13)	23	0.4
Median Contract Rent in Dollars (13)	115.0	

1980 Census STF1 | Report 1A. Population and Housing Part 1

SEEDIS Run on 10 Jan 1985 | Shawnee County
Lawrence Berkeley Laboratory | Kansas

Population by Race, Origin, Marital Status

Universe: Persons	Number	Percent
Population by Race, including Hispanics	154,916	100.0
White	137,423	88.7
Black	11,842	7.6
Native American	1,410	0.9
American Indian	1,403	0.9
Eskimo	5	-
Aleut	2	-
Asian and Pacific Islander (4)	715	0.5
Japanese	84	0.1
Chinese	144	0.1
Filipino	92	0.1
Korean	85	0.1
Asian Indian	155	0.1
Vietnamese	123	0.1
Hawaiian	18	-
Guamanian	8	-
Samoan	6	-
Remaining Races (3)	3,526	2.3
Population by Race, excluding Hispanics	148,766	100.0
White, not Hispanic	134,798	90.6
Black, not Hispanic	11,659	7.8
Nat Amer and Asian/Pac Isl, not Hisp (4)	1,937	1.3
Remaining Races, not Hispanic (3)	372	0.3
Population by Origin, including all races	154,916	100.0
Hispanic	6,150	4.0
Mexican	5,281	3.4
Puerto Rican	212	0.1
Cuban	54	-
Other Hispanic	603	0.4
Hispanic by Race	6,150	100.0
White	2,625	42.7
Black	183	3.0
Native American, and Asian/Pac Isl (4)	188	3.1
Remaining Races (3)	3,154	51.3

Universe: Persons 15 Years and Over	Number	Percent
Population by Marital Status	120,872	100.0
Married, including Separated	72,569	60.0
Never-Married	28,966	24.0
Divorced and Widowed	19,337	16.0

Housing Characteristics

Universe: Housing Units	Number	Percent
Total Housing Units (2)	64,446	
Total Year-Round Housing Units	64,393	100.0
Condominium Units	1,239	1.9
Lack Complete Plumbing for exclusive use (13)	897	1.4
Occupied Housing Units (1)	58,832	91.4
Median Persons per Unit (7)	2	
Homeowner Vacancy Rate	3.4	
Rental Vacancy Rate	11.8	

Population, Household, Housing Characteristics Report 1a:Part II
1980 Census, STF 1 Shawnee County
SEEDIS run date 10 Jan 1985 Kansas
Lawrence Bekeley Laboratory

Population and Household Characteristics

Universe: Persons	Male	Percent	Female	Percent
Population by Age/Sex	74,805	100.0	80,111	100.0
0-4 Years	6,000	8.0	5,437	6.8
5-13 Years	10,418	13.9	9,792	12.2
14-15 Years	2,702	3.6	2,398	3.0
16 Years and Over	55,685	74	62,484	78
16-17 Years	2,918	3.9	2,786	3.5
18-19 Years	2,585	3.5	2,711	3.4
20-21 Years	2,680	3.6	2,864	3.6
22-24 Years	4,400	5.9	4,740	5.9
25-34 Years	13,003	17.4	13,489	16.8
35-44 Years	8,217	11.0	8,683	10.8
45-54 Years	7,950	10.6	8,226	10.3
55-64 Years	6,958	9.3	7,430	9.3
65-74 Years	4,247	5.7	6,075	7.6
75 Years and Over	2,727	3.6	5,480	6.8
Median Age in Years	29.1		31.6	

Universe: Households	Number	Percent
Total Households (1)	58,832	100.0
1 Person Household	15,107	25.7
Male Householder	5,513	9.4
Female Householder	9,594	16.3
2 or More Person Household	43,725	74.3
Married-couple Family	34,859	59.3
Other Family	6,445	11.0
Male Householder, no Wife Present	1,086	1.8
Female Householder, no Husband Present	5,359	9.1
Nonfamily Households	2,421	4.1
Male Householder	1,368	2.3
Female Householder	1,053	1.8
Total Households w/ Persons Age 65+ (7)	12,741	100.0
1 Person Household	5,588	43.9
2 or More Person Household	7,153	56.1
Total Households w/ Persons Under Age 18	22,228	100.0
Married-Couple Family	17,610	79.2
Other Family	4,409	19.8
Male Householder, no Wife Present	551	2.5
Female Householder, no Husband Present	3,858	17.4
Nonfamily Households	209	0.9

Housing Characteristics

Universe: Occupied Housing Units	Number	Percent
Occupied Housing Units	58,832	100.0
With 1.01 or more Persons per Room	1,180	2.0
Owner Occupied	39,753	67.6
Lack Complete Plumbing for exclusive use (13)	155	0.3
Median Value in Dollars (11)	44100.0	
Renter Occupied	19,079	32.4
Lack Complete Plumbing for exclusive use (13)	422	0.7
Median Contract Rent in Dollars (13)	180.0	

U.S. Department of Labor
Employment and Training Admin
Washington, D.C. 20210 10 Jan 1989
Lawrence Berkeley Laboratory

Report: PA Employment and Training Indicators
at a Population, Labor Force, and Income Characteristics

Jefferson

Population

Universe: Persons 152	Number	Pct
Population by Race, incl Hisp	15,2[illegible]	100.0
White	14,943	98.3
Black	50	0.4
Native American	144	0.9
Asian and Pacific Isl (4)	31	0.2
Remaining Races (a)	25	0.2
Hispanic, all races	105	0.7
Foreign Born	111	0.7
Persons 5 Years and Over	14,154	100.0
Speak English Poorly	18	0.1
Civilians 16 Years and Over	11,322	100.0
Veteran	2,098	18.5
Vietnam Era Veteran (20)	587	5.2

U: Persons	Male	Pct	Female	Pct
Total	7,564	100.0	7,643	100.0
14-15 Years	284	3.8	274	3.6
16 Years +	5,527	73.1	5,804	75.9
16-21 Years	739	9.8	723	9.5
22-24 Years	269	3.6	284	3.7
55 Years +	1,720	22.7	2,009	26.3

Labor Force and Education

U: Persons 16-19 Years	Number	Pct
Total	1,093	100.0
Armed Forces	-	-
Civilians Enrolled in School	815	74.6
Civilians Not Enrolled in Schl	278	25.4
Unemployed High Schl Graduate	12	1.1
Not In Labor Force, HS Grad	40	3.7
Unemployed School Dropout	40	3.7
Not In LF, School Dropout	20	1.8

U: Noninstitutnl Persons 16-64	Number	Pct
Total With Work Disability(41)	740	100.0
In Labor Force	359	48.5
Not In Labor Force	381	51.5
Prevented from Working	310	41.9
Not Prevented from Working	71	9.6

U: Persons 25 Years and Over	Number	Pct
Total, by Yrs School Completed	9,316	100.0
Elementary (0-8 Years)	1,447	15.5
Some High School (1-3 Years)	1,250	13.4
High School Graduate	4,525	48.6
Some College (1-3 Years)	1,078	11.6
College Graduate	1,016	10.9

Labor Force, Industry and Occupation

Universe: Persons 16 Years and Over	Employed Number	Employed Pct	Unemployed Number	Unemployed Pct	Unemployed Rate	Not in Laborforce Number	Not in Laborforce Pct
Total, incl Hisp	6,647	100.0	305	100.0	4.4	4,370	100.0
White	6,555	98.6	303	99.3	4.4	4,282	98.0
Black	24	0.4	-	-	-	24	0.5
Native American	36	0.5	2	0.7	5.3	50	1.1
Asian/Pac Isl (4)	...	...	...	...	...	...	...
Remaining Race(a)	...	...	...	...	...	...	...
Hisp, all races	43	0.6	4	1.3	8.5	23	0.5

Universe: Employed Persons 16 Years and Over	Number	Pct
Total, All Industries (42)(53)	6,647	100.0
Agriculture, Forestry, Fisheries, Mining	771	11.6
Construction	481	7.2
Manufacturing, Durable and Nondurable Goods	1,236	18.6
Transportation	412	6.2
Communications and Other Public Utilities	190	2.9
Wholesale Trade	250	3.8
Retail Trade	792	11.9
Finance, Insurance, and Real Estate	340	5.2
Service Industries	1,730	26.1
Public Administration	429	6.5
Total, All Occupations (43)(53)	6,647	100.0
Executive, Administrative, and Managerial	484	7.3
Professional Specialty	664	10.0
Technicians and Related Support Occupations	117	1.8
Sales	443	6.7
Administrative Support Occupations, Including Clerical	1,114	16.8
Service Occupations	765	11.5
Farming, Forestry and Fishing	688	10.4
Precision Production, Craft and Repair	964	14.5
Machine Operators, Assemblers, and Inspectors	613	9.2
Transportation and Material Moving	446	6.7
Handlers, Equipment Cleaners, Helpers, and Laborers	349	5.3

Income and Poverty (b)

Universe: Hseholds	Number	Pct
Total	5,271	100.0
Under $5,000	672	12.7
$5,000-$7,499	389	7.4
$7,500-$9,999	425	8.1
$10,000-$14,999	801	15.2
$15,000-$19,999	758	14.4
$20,000-$24,999	760	14.4
$25,000-$29,999	617	11.7
$30,000-$39,999	549	10.4
$40,000-$49,999	158	3.0
$50,000 & Over(b)	142	2.7
Median Income	17,234	
Mean income (b)	18,889	

U: Households	Number	Pct
Total Households (c)	5,271	100.0
Wage or Salary	3,933	74.6
Self-Employed	1,737	33.0
Social Security	1,605	30.4
Public Assistance	274	5.2

U: Persons Below Poverty	Number	Pct
Total, incl Hisp (d)	1,221	100.0
White	1,187	97.2
Black	11	0.9
Native American	21	1.7
Asian/Pacific Isl (4)	...	...
Hispanic, all races (d)	15	1.2

U.S. Department of Labor
Employment and Training Admin.
1980 Census, Run on 10 Jan 1985
Lawrence Berkeley Laboratory

Report (A: [illegible] and [illegible] Indicators
Table: Population, Labor Force, A[illegible] Income Characteristics

[aOsage

Population

Universe: Persons (50)	Number	Pct
Population by Race, Incl Hisp	15,319	100.0
White	15,160	99.0
Black	12	-
Native American	72	0.5
Asian and Pacific Isl (4)	30	0.2
Remaining Races (a)	45	0.3
Hispanic, all races	169	1.1
Foreign Born	88	0.6
Persons 5 Years and Over	14,191	100.0
Speak English Poorly	11	-
Civilians 16 Years and Over	11,553	100.0
Veteran	1,933	16.7
Vietnam Era Veteran (20)	562	4.9

U: Persons	Male	Pct	Female	Pct
Total	7,551	100.0	7,768	100.0
14-15 Years	274	3.6	259	3.3
16 Years +	5,610	74.3	5,963	76.8
16-21 Years	772	10.2	678	8.7
22-24 Years	357	4.7	352	4.5
55 Years +	1,801	23.9	2,280	29.4

Labor Force and Education

U: Persons 16-19 Years	Number	Pct
Total	1,005	100.0
Armed Forces	5	0.5
Civilians Enrolled in School	759	70.0
Civilians Not Enrolled in Schl	321	29.6
Unemployed High Schl Graduate	11	1.0
Not in Labor Force, HS Grad	37	3.4
Unemployed School Dropout	41	3.8
Not in LF, School Dropout	36	3.3

U: Noninstitutnl Persons 16-64	Number	Pct
Total With Work Disability(41)	756	100.0
In Labor Force	311	41.1
Not in Labor Force	445	58.9
Prevented from Working	361	47.8
Not Prevented from Working	84	11.1

U: Persons 25 Years and Over	Number	Pct
Total, by Yrs School Completed	9,414	100.0
Elementary (0-8 Years)	1,646	17.5
Some High School (1-3 Years)	1,297	13.8
High School Graduate	4,659	49.5
Some College (1-3 Years)	1,016	10.9
College Graduate	796	8.5

Labor Force, Industry and Occupation

Universe: Persons 16 Years and Over	Employed Number	Employed Pct	Unemployed Number	Unemployed Pct	Unemployed Rate	Not in LaborForce Number	Not in LaborForce Pct
Total, Incl Hisp	6,574	100.0	283	100.0	4.1	4,696	100.0
White	6,520	99.2	277	97.9	4.1	4,652	99.1
Black	...	...	...	...	...	...	...
Native American	35	0.5	4	1.4	10.3	12	0.3
Asian/Pac Isl (4)	6	-	2	0.7	25.0	10	0.2
Remaining Race(a)	...	...	...	...	...	...	...
Hisp, all races	62	0.9	4	1.4	6.1	41	0.9

Universe: Employed Persons 16 Years and Over	Number	Pct
Total, All Industries (42)(53)	6,574	100.0
Agriculture, Forestry, Fisheries, Mining	594	9.0
Construction	701	10.7
Manufacturing, Durable and Nondurable Goods	1,055	16.0
Transportation	503	7.7
Communications and Other Public Utilities	200	3.0
Wholesale Trade	316	4.8
Retail Trade	1,003	15.3
Finance, Insurance, and Real Estate	262	4.0
Service Industries	1,468	22.3
Public Administration	472	7.2
Total, All Occupations (43)(53)	6,574	100.0
Executive, Administrative, and Managerial	448	6.8
Professional Specialty	522	7.9
Technicians and Related Support Occupations	133	2.0
Sales	540	8.2
Administrative Support Occupations, Including Clerical	1,032	15.7
Service Occupations	814	12.4
Farming, Forestry and Fishing	585	8.9
Precision Production, Craft and Repair	1,017	15.5
Machine Operators, Assemblers, and Inspectors	610	9.3
Transportation and Material Moving	409	6.2
Handlers, Equipment Cleaners, Helpers, and Laborers	464	7.1

Income and Poverty (b)

Universe: Hseholds	Number	Pct
Total	5,607	100.0
Under $5,000	836	14.9
$5,000-$7,499	503	9.0
$7,500-$9,999	402	8.6
$10,000-$14,999	947	16.9
$15,000-$19,999	894	15.9
$20,000-$24,999	734	13.1
$25,000-$29,999	520	9.3
$30,000-$39,999	442	7.9
$40,000-$49,999	134	2.4
$50,000 & Over(b)	115	2.1
Median Income	15,203	
Mean Income (b)	17,281	

Total Households (c)	Number	Pct
Total Households (c)	5,607	100.0
Wage or Salary	4,007	71.5
Self-Employed	1,792	32.0
Social Security	1,937	34.5
Public Assistance	339	6.0

U: Persons Below Poverty	Number	Pct
Total, Incl Hisp (d)	1,466	100.0
White	1,455	99.2
Black	...	...
Native American	5	0.3
Asian/Pacific Isl (4)	-	-
Hispanic, all races (d)	23	1.6

U.S. Department of Labor
Employment and Training Admin
1980 Census, Public Use Tape 1B5
Lawrence Berkeley Laboratory

Employment and Training Indicators
after Population, Labor Force, and Income Characteristics

Shawnee

Population

Universe: Persons (50)	Number	Pct
Population by Race, Incl Hisp	154,9[illegible]	100.0
White	137,6[illegible]	89.0
Black	11,8[illegible]	[illegible]
Native American	1,408	1.0
Asian and Pacific Isl (4)	743	0.5
Remaining Races (a)	2,969	1.9
Hispanic, all races	5,684	3.7
Foreign Born	2,493	1.6
Persons 5 Years and Over	143,566	100.0
Speak English Poorly	375	0.3
Civilians 16 Years and Over	118,152	100.0
Veteran	22,799	19.3
Vietnam Era Veteran (20)	6,150	5.2

U: Persons	Male	Pct	Female	Pct
Total	74,625	100.0	80,241	100.0
14-15 Years	2,612	3.5	2,323	2.9
16 Years +	55,729	74.6	62,599	78.0
16-21 Years	8,136	10.9	8,447	10.5
22-24 Years	4,574	6.1	4,628	5.8
55 Years +	13,650	18.5	19,192	23.9

Labor Force and Education

U: Persons 16-19 years	Number	Pct
Total	11,05[illegible]	100.0
Armed Forces	-	-
Civilians Enrolled in School	7,292	66.0
Civilians Not Enrolled in Schl	3,761	34.0
Unemployed High Schl Graduate	155	1.4
Not In Labor Force, HS Grad	364	3.3
Unemployed School Dropout	617	5.6
Not In LF, School Dropout	615	5.6

U: Noninstitutnl Persons 16-64	Number	Pct
Total With Work Disability(41)	7,774	100.0
In Labor Force	3,721	47.9
Not In Labor Force	4,053	52.1
Prevented from Working	3,249	41.9
Not Prevented from Working	805	10.4

U: Persons 25 Years and Over	Number	Pct
Total, by Yrs School Completed	92,533	100.0
Elementary (0-8 Years)	10,338	11.2
Some High School (1-3 Years)	9,765	10.6
High School Graduate	38,566	41.7
Some College (1-3 Years)	15,462	16.7
College Graduate	18,402	19.9

Labor Force, Industry and Occupation

Universe: Persons 16 Years and Over	Employed Number	Employed Pct	Unemployed Number	Unemployed Pct	Unemployed Rate	Not In LaborForce Number	Not In LaborForce Pct
Total, Incl Hisp	75,971	100.0	3,469	100.0	4.4	38,712	100.0
White	68,733	90.5	2,927	84.4	4.1	34,801	89.9
Black	4,810	6.3	362	10.4	7.0	2,996	7.7
Native American	586	0.8	81	2.3	12.1	345	0.9
Asian/Pac Isl (4)	375	0.5	45	1.3	10.7	104	0.3
Remaining Race(a)	1,467	1.9	54	1.6	3.6	466	1.2
Hisp, all races	2,628	3.5	134	3.9	4.9	952	2.5

Universe: Employed Persons 16 Years and Over	Number	Pct
Total, All Industries (42)(53)	75,971	100.0
Agriculture, Forestry, Fisheries, Mining	1,131	1.5
Construction	4,059	5.3
Manufacturing, Durable and Nondurable Goods	10,240	13.5
Transportation	4,985	6.6
Communications and Other Public Utilities	3,325	4.4
Wholesale Trade	3,115	4.1
Retail Trade	11,223	14.8
Finance, Insurance, and Real Estate	5,981	7.9
Service Industries	24,360	32.1
Public Administration	7,552	9.9
Total, All Occupations (43)(53)	75,971	100.0
Executive, Administrative, and Managerial	8,241	10.8
Professional Specialty	10,316	13.6
Technicians and Related Support Occupations	2,493	3.3
Sales	7,649	10.1
Administrative Support Occupations, Including Clerical	17,092	22.5
Service Occupations	10,212	13.4
Farming, Forestry and Fishing	1,029	1.4
Precision Production, Craft and Repair	8,474	11.2
Machine Operators, Assemblers, and Inspectors	5,035	6.6
Transportation and Material Moving	2,518	3.3
Handlers, Equipment Cleaners, Helpers, and Laborers	2,912	3.8

Income and Poverty (b)

Universe: Hseholds	Number	Pct
Total	58,960	100.0
Under $5,000	5,933	10.1
$5,000-$7,499	4,261	7.2
$7,500-$9,999	4,673	7.9
$10,000-$14,999	9,634	16.3
$15,000-$19,999	8,996	15.3
$20,000-$24,999	8,402	14.3
$25,000-$29,999	5,734	9.7
$30,000-$39,999	6,809	11.5
$40,000-$49,999	2,351	4.0
$50,000 & Over(b)	2,157	3.7
Median Income	17,713	
Mean Income (b)	20,358	

U: Households	Number	Pct
Total Households (c)	58,960	100.0
Wage or Salary	47,541	80.6
Self-Employed	8,342	14.1
Social Security	14,425	24.5
Public Assistance	3,301	5.6

U: Persons Below Poverty	Number	Pct
Total, Incl Hisp (d)	11,739	100.0
White	8,405	71.6
Black	2,645	22.5
Native American	261	2.2
Asian/Pacific Isl (4)	49	0.4
Hispanic, all races (d)	683	5.8

APPENDIX B

SMALL AREA DATA RETRIEVAL – Census Tracts

Not Available Pending SEEDIS System Changes

APPENDIX C

County Data Book Dictionary

!CCNTDB77	COUNTY DATA BOOK DICTIONARY CONSOLIDATED FILE COUNTY DATA 1947-1977

Database Code	F
Geographic Levels	STATE, COUNTY, COUNTY80
Directory Authors	Fredric Gey, Deane Merrill Computer Science and Mathematics Department Lawrence Berkeley Laboratory, Bldg 50B-3201 Berkeley, CA 94720
Telephone	(415) 486-6208 or FTS 451-6208
Data Source	County and City Data Books 1947-1977 U.S. Bureau of the Census Washington, DC
Last Update	6 March 1984
Documentation	$soff lblh::disk$seedis004:[seedis.seedict]ccntdb77.sof

EOR

TABLE OF CONTENTS

Page	
pref	PREFACE
table	Table of Contents
1	Introduction
2	Data Elements
2	Geographic Designations
3	General Population Characteristics, Migration
6	Vital Statistics, Family
8	Age
9	Income
11	Social Security and Public Assistance
12	Education
13	Presidential Vote
14	Medical
15	Crime and Police
16	Employment and Labor Force
16	Employment, General Characteristics
17	Journey to Work
18	Local Government Employment
19	Social Security Coverage
19	Unemployment
20	Housing
24	Business and Industries
24	Retail Trade
26	Establishments by Type
27	Payroll and Employment
28	Personal Business and Repair Services
28	Selected Services
29	Establishments by Type
31	Wholesale Trade
32	Mineral Industries
33	Manufactures
37	War Contracts
38	Agriculture
43	Farm Households, Level of Living
44	Banking
45	Local Government
45	Revenue
45	Expenditures
46	Indebtedness
47	Known Errors and Omissions
48	Technical Information
48	county80 level (1980 Census Counties)

EOR

INTRODUCTION

The universe for the data this dictionary represents is the entire United States. Items of this file are derived from various sources. The sampling of a particular item reflects the sampling of its source file.

The file is a compendia of data gathered from both governmental and private agencies. Detailed data are provided for the following general areas:

- population
- employment
- vital statistics
- school
- enrollment
- health
- income
- public assistance and social security
- banking
- housing
- government employment and finance
- elections
- crime
- manufacturing
- retail and wholesale trade
- selected services
- mineral
- industries
- farm population
- agriculture and weather

The data from the 1944 book contain information from the 1930 decennial census and the 1939 censuses.

The subject-matter data are provided for individual states, District of Columbia and each county or county equivalent for which data were provided in one of the eight County and City Data Books published since 1947.

WARNING: not all data elements are valid for all counties. Consult the section on Known Errors and Omissions. For further information, consult the printed Census Bureau documentation.

GEOGRAPHIC DESIGNATIONS

Data Elements	Description
!FIPS.STATE	FIPS State Code
!FIPS.COUNTY	FIPS County Code
!AREANAME	County Name

Data Elements	Description	Year
	Population	
!CCDBC0012		1940
!CCDBC0013		1950
!CCDBC0014		1960
!CCDBC0015		1970
!CCDBC0016		1970
!CCDBC0017		1972
!CCDBC0018		1975
	Population Rank	
!CCDBC0006		1950
!CCDBC0007		1960
!CCDBC0008		1960
!CCDBC0009		1970
!CCDBC0010		1975
	Population Rank in Percentile	
!CCDBC0011		1940
	Land Area in Square Miles	
!CCDBC0001		1940
!CCDBC0002		1950
!CCDBC0003		1960
!CCDBC0004		1970
!CCDBC0005		1975
	Population Per Square Mile	
!CCDBC0019		1940
!CCDBC0020		1950
!CCDBC0021		1960
!CCDBC0022		1970
!CCDBC0023		1975
	Population Percent Change	
!CCDBC0024		1930-1940
!CCDBC0025		1940-1950
!CCDBC0026		1950-1960
!CCDBC0027		1960-1970
!CCDBC0028		1970-1975
	Net Migration Percent Change	
!CCDBC0029		1950-1960
!CCDBC0030		1960-1970
!CCDBC0031		1970-1975
	Migration 1 Year	
!CCDBC0032		1949-1950
	Migrants From Different County Percent	
!CCDBC0033		1955-1960
	Civilian Population	
!CCDBC0034		1943
	Percent Change	
!CCDBC0035		1940-1943
	NET Civilian Migration	
!CCDBC0036		1950-1960
	Population	
	Percent Female	

Data Elements	Description	Year
!CCDBC0037		1970
	Percent Urban	
!CCDBC0038		1940
!CCDBC0039		1960
!CCDBC0040		1960
!CCDBC0041		1970
	Rural Farm Population	
!CCDBC0042		1940
!CCDBC0043		1945
!CCDBC0044		1950
!CCDBC0045		1970
	Percent Rural Farm Population	
!CCDBC0046		1960
	Farm Population Percent Change	
!CCDBC0047		1960-1970
	Rural Nonfarm Population	
!CCDBC0048		1940
!CCDBC0049		1950
!CCDBC0050		1970
	White Population	
!CCDBC0051		1940
!CCDBC0052		1970
	Population Percent Black & Races Other Than White	
!CCDBC0053		1950
!CCDBC0054		1960
	Population Percent Black	
!CCDBC0055		1960
!CCDBC0056		1970
	Black Population Percent Change	
!CCDBC0057		1960-1970
	One Person Households 1000	
!CCDBC0072		1970
	Population Percent in Group Quarters	
!CCDBC0073		1960
!CCDBC0074		1970
	Institutional Population	
!CCDBC0075		1950
	Population Percent Foreign Stock	
!CCDBC0076		1960
!CCDBC0077		1970
	Foreign Stock Leading Country of Origin	
!CCDBC0078		1970
	01 Austria	
	02 Canada	
	03 China	
	04 Cuba	
	05 Czechoslovakia	
	06 Denmark	
	07 Finland	
	08 France	

Data Elements	Description	Year
	09 Germany	
	10 Greece	
	11 Hungary	
	12 Ireland	
	13 Italy	
	14 Japan	
	15 Lithuania	
	16 Mexico	
	17 Netherlands	
	18 Norway	
	19 Philippines	
	20 Poland	
	21 Portugal	
	22 Romania	
	23 Sweden	
	24 Switzerland	
	25 United Kingdom	
	26 USSR	
	27 Yugoslavia	
	Population Percent Foreign Born	
!CCDBC0079		1960
	Native of Foreign or Mixed Parentage PCT	
!CCDBC0080		1960
	Persons of Spanish Heritage Percent	
!CCDBC0081		1970

Data Elements	Description	Year
	Births	
!CCDBC0082		1944
!CCDBC0083		1964
!CCDBC0084		1975
	Live Births	
!CCDBC0085		1948
!CCDBC0086		1950
!CCDBC0087		1954
!CCDBC0088		1960
	Birth Rate Per Thousand Population	
!CCDBC0089		1968
!CCDBC0090		1975
!CCDBC0091		1970
	Deaths	
!CCDBC0092		1944
!CCDBC0093		1948
!CCDBC0094		1950
!CCDBC0095		1954
!CCDBC0096		1959
!CCDBC0097		1964
!CCDBC0098		1975
	Infant Deaths	
!CCDBC0099		1948
!CCDBC0100		1950
	Death Rate Per Thousand Population	
!CCDBC0101		1969
!CCDBC0102		1975
!CCDBC0103		1970
	Natural Increase Percent Change	
!CCDBC0104		1950
!CCDBC0105		1960
!CCDBC0106		1970
	Marriages	
!CCDBC0107		1948
!CCDBC0108		1950
!CCDBC0109		1954
!CCDBC0110		1960
!CCDBC0111		1964
!CCDBC0112		1975
	Marriage Rate Per Thousand Population	
!CCDBC0113		1975
!CCDBC0114		1970
	Divorces	
!CCDBC0115		1975
	Divorce Rate Per Thousand Population	
!CCDBC0116		1975
!CCDBC0117		1970

Data Elements	Description	Year
	Families	
!CCDBC0227		1950
!CCDBC0228		1960
!CCDBC0229		1970
	Families Percent With Female Head	
!CCDBC0230		1970

County Data Book Data Elements	AGE Description	Year
	Count of Persons	
	_....Under 5 Years	
!CCDBC0058		1950
	_....65 Years and Over	
!CCDBC0063		1950
	Persons, Percent	
	_....Under 5 Years	
!CCDBC0059		1960
!CCDBC0060		1970
	_....18 Years and Over	
!CCDBC0061		1970
	_....21 Years and Over	
!CCDBC0062		1960
	_....65 Years and Over	
!CCDBC0064		1950
!CCDBC0065		1960
!CCDBC0066		1970
!CCDBC0067		1975
	Median Age Years	
!CCDBC0068		1950
!CCDBC0069		1960
!CCDBC0070		1970
	Citizens 21 Years and Over	
!CCDBC0071		195

Data Elements	Description	Year
	Families, Percent With Income	
	_....Less Than $2000	
!CCDBC0231		1950
	_....$5000 Or More	
!CCDBC0232		1950
	_....Less Than $3000	
!CCDBC0233		1960
!CCDBC0234		1970
	_....$10000 And Over	
!CCDBC0235		1960
	_....$3000-4999	
!CCDBC0236		1970
	_....$5000-6999	
!CCDBC0237		1970
	_....$10000-14999	
!CCDBC0238		1970
	_....$15000 And Over	
!CCDBC0239		1970
	_....$15000-24999	
!CCDBC0240		1970
	_....$25000 Or More	
!CCDBC0241		1970
	Median Family Income $	
!CCDBC0242		1950
!CCDBC0243		1960
!CCDBC0244		1970
	Rank	
!CCDBC0245		1969
	White $	
!CCDBC0246		1969
	Black $	
!CCDBC0247		1969
	Farm Population Median Family Income $	
!CCDBC0248		1969
	Families Percent Below Poverty Level	
!CCDBC0249		1969
	125 Percent of Poverty Level	
!CCDBC0250		1969
	Persons Below Poverty Level	
!CCDBC0251		1969
	Percent With Related Children Under 18	
!CCDBC0252		1969
	Percent 65 Years & Over	
!CCDBC0253		1969
	Farm Population Persons Below Poverty Level	
!CCDBC0254		1969

Data Elements	Description	Year
	Aggregate Income Million Dollars	
!CCDBC0255		1959
	Per Capita Money Income $	
!CCDBC0256		1969
!CCDBC0257		1974
	Rank	
!CCDBC0258		1974
	Per Capital Money Income Annual Average Percent Change	
!CCDBC0259		1969

Data Elements	Description	Year
	OASDHI Recipients	
!CCDBC0260		1971
!CCDBC0261		1976
	OASDHI Payments Per Month $1000	
!CCDBC0262		1971
!CCDBC0263		1976
	To Retirees Per Month $M	
!CCDBC0264		1976
	Average Payments To Retirees Per Month $	
!CCDBC0265		1971
!CCDBC0266		1976
	Public Assistance Recipients	
!CCDBC0267		1964
	Old Age Assistance	
!CCDBC0268		1972
	Aid to Families With Dependent Children	
!CCDBC0269		1972
!CCDBC0270		1976
	.....children	
!CCDBC0271		1976
	Payments for Month $M	
!CCDBC0272		1972
	Percent Old Age Assistance	
!CCDBC0273		1972
	Aid to Families With Dependent Children $1000	
!CCDBC0274		1976
	Percent Aid to Families with Dependent Children	
!CCDBC0275		1972
	Aid to Families With Dependent Children (Average/Family) $	
!CCDBC0276		1972
!CCDBC0277		1976
	Supplemental Security Income Total Recipients	
!CCDBC0278		1976
	Recipients Aged	
!CCDBC0279		1976
	Payments Per Month $1000	
!CCDBC0280		1976
	Payments Per Month Aged $1000	
!CCDBC0281		1976

Data Elements	Description	Year
	Persons 25 Years or More	
!CCDBC0123		1970
	Percent With 5 Years School Or more	
!CCDBC0124		1940
	With High School Or more	
!CCDBC0125		1940
!CCDBC0126		1950
!CCDBC0127		1960
!CCDBC0128		1970
	With 4 Years College Or more	
!CCDBC0129		1970
	With Less than 5 Years School	
!CCDBC0130		1950
!CCDBC0131		1960
!CCDBC0132		1970
	Median School Years	
!CCDBC0133		1950
!CCDBC0134		1960
!CCDBC0135		1970
	Persons 7-17 Years	
!CCDBC0136		1950
	Enrolled In School	
!CCDBC0137		1950
	Percent Enrolled In School	
!CCDBC0138		1950
	14-17 Years Enrolled In School	
!CCDBC0139		1950
	14-17 Years Percent Enrolled In School	
!CCDBC0140		1950
	5-34 Years Enrolled	
!CCDBC0141		1960
!CCDBC0142		1975
	Enrolled	
!CCDBC0143		1970
	5-34 Enrolled In Kindergarten and Elementary	
!CCDBC0144		1960
!CCDBC0145		1970
	in High School	
!CCDBC0146		1960
!CCDBC0147		1970
	in College	
!CCDBC0148		1960
!CCDBC0149		1970
	Black Persons 3-34, Percent Enrolled in Elementary & High School	
!CCDBC0150		1970
	Persons 3-34, Percent Enrolled in Private Elementary & High School	
!CCDBC0151		1970

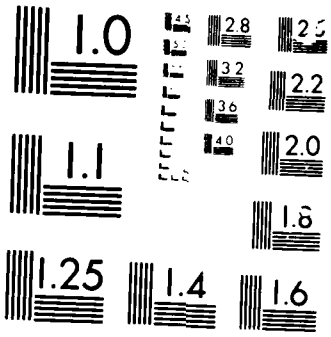
Data Elements	Description	Year
	Vote For President	
!CCDBC0369		1960
!CCDBC0370		1964
!CCDBC0371		1968
!CCDBC0372		1972
!CCDBC0373		1976
	Vote For President Percent For Leading Party	
!CCDBC0374		1960
!CCDBC0375		1964
!CCDBC0376		1968
!CCDBC0377		1972
!CCDBC0378		1976
	Vote For President Leading Party	
!CCDBC0379		1960
	1 Democrat	
	2 Republican	
	Vote For President Leading Party	
!CCDBC0380		1964
	1 Democrat	
	2 Republican	
	Vote For President Leading Party	
!CCDBC0381		1968
	1 American Independence	
	2 Democrat	
	3 Republicar	
	Vote For President Leading Party	
!CCDBC0382		1972
	1 Democrat	
	2 Republican	
	Vote For President Leading Party	
!CCDBC0383		1976
	1 Democrat	
	2 Republican	
	Citizens Of Voting Age 1000	
!CCDBC0384		1972
	Persons Voting Percent	
!CCDBC0385		1972

County Data Book Data Elements	MEDICAL Description	Year
	Physicians	
!CCDBC0118		1975
	Rate Per 100000 Population	
!CCDBC0119		1975
	Hospitals	
!CCDBC0120		1975
	Hospital Beds	
!CCDBC0121		1975
	Rate Per 100000 Population	
!CCDBC0122		1975

Data Elements	Description	Year
	Crime Rate Per 100000 Population	
!CCDBC0437		1975
	Serious Crimes Known to Police	
!CCDBC0438	robbery	1975
!CCDBC0439	aggr assault	1975
!CCDBC0440	burglary	1975
!CCDBC0441	vehicle theft	1975
!CCDBC0436	total	1975
	Police Officers	
!CCDBC0442		1975

AD-A168 917 A USER'S GUIDE TO THE SOCIOECONOMIC ENVIRONMENTAL DEMOGRAPHIC INFORMATION SYSTEM (SEEDIS)(U) CALIFORNIA UNIV BERKELEY LAWRENCE BERKELEY LAB F C GEY JAN 86 2/2

UNCLASSIFIED IWR-86-UM-1 F/G 5/3 NL



MICROCOPY

Data Elements	Description	Year
	Population 14 Years and over	
!CCDBC0152		1940
!CCDBC0153		1950
	Labor Force. 14 Years and over	
!CCDBC0154		1940
!CCDBC0155		1970 ?????
	Males 14 Years and over Percent in Labor Force	
!CCDBC0156		1940
!CCDBC0157		1950
	Females 14 Years and over Percent in Labor Force	
!CCDBC0158		1940
!CCDBC0159		1950
	Civilian Labor Force	
!CCDBC0160		1950
!CCDBC0161		1960
!CCDBC0162		1970
	Percent Male	
!CCDBC0163		1960
	Female	
!CCDBC0164		1970
	Percent Married, Husband Present	
!CCDBC0165		1970
	Employed	
!CCDBC0168		1940
!CCDBC0169		1950
!CCDBC0170		1960
!CCDBC0171		1970
	in Agriculture	
!CCDBC0172		1940
!CCDBC0173		1950
!CCDBC0174		1960
	in Mining	
!CCDBC0175		1940
!CCDBC0176		1950
	in Construction	
!CCDBC0177		1940
!CCDBC0178		1950
!CCDBC0179		1960
	percent in Construction	
!CCDBC0180		1970
	in Manufacturing	
!CCDBC0181		1940
!CCDBC0182		1950
	percent in Manufacturing	
!CCDBC0183		1950
!CCDBC0184		1960
!CCDBC0185		1970
	in Manufacturing Durable Goods	
!CCDBC0186		1960
	in Manufacturing Nondurable Goods	

Data Elements	Description	Year
!CCDBC0187		1960
	in Transportation Communications & Public Utility	
!CCDBC0188		1940
!CCDBC0189		1950
!CCDBC0190		1960
	in Wholesale & Retail Trade	
!CCDBC0191		1940
!CCDBC0192		1950
!CCDBC0193		1960
!CCDBC0194		1970
	in Finance, Insurance, Real Estate	
!CCDBC0195		1950
!CCDBC0196		1960
	in Business and Personal Services Except Domestic	
!CCDBC0197		1940
!CCDBC0198		1950
	in Professional & Related Services	
!CCDBC0199		1950
	percent In Services	
!CCDBC0200		1970
	percent In Government	
!CCDBC0201		1970
	in Educational Services	
!CCDBC0202		1960
	percent In Educational Services	
!CCDBC0203		1970
	in Public Administration	
!CCDBC0204		1960
	in Other Occupatons	
!CCDBC0205		1940
	percent In White Collar Occupations	
!CCDBC0206		1960
	percent In Professional & Managerial Occupations	
!CCDBC0207		1970
	in Sales and Clerical Occupations	
!CCDBC0208		1970
	as Craftsmen & Foremen	
!CCDBC0209		1970
	Journey to Work	
	Workers Percent Used Public Transportation To Work	
!CCDBC0210		1960
!CCDBC0211		1970
	Worked Out Of County Of Residence	
!CCDBC0212		1960
!CCDBC0213		1970

Data Elements	Description	Year
	Local Goverment Employment October Fulltime Equivalent	
!CCDBC0427		1962
!CCDBC0428		1967
!CCDBC0429		1972
	Payroll October $1000	
!CCDBC0430		1962
	October Million Dollars	
!CCDBC0431		1967
!CCDBC0432		1972
	Federal Government Employment December	
!CCDBC0433		1965
!CCDBC0434		1967
!CCDBC0435		1975

Data Elements	Description	Year
	Reporting Units With Social Security Coverage	
!CCDBC0214		1953
!CCDBC0215		1957
!CCDBC0216		1964
	Employees With Social Security Coverage Mid-March	
!CCDBC0217		1953
!CCDBC0218		1959
!CCDBC0219		1964
!CCDBC0220		1975
	Employees In Manufacturing Percent With Social Security Coverage	
!CCDBC0221		1975
	Employees in Wholesale and Retail Trade Percent With Social Security Coverage	
!CCDBC0222		1975
	OASI Taxable Payrolls Jan. -March $1000	
!CCDBC0223		1953
!CCDBC0224		1959
!CCDBC0225		1964
	Payroll Social Security Coverage Annual Million Dollars	
!CCDBC0226		1975
	unemployment (percent of civilian labor force)	
	Civilian Labor Force, Percent Unemployed	
!CCDBC0166		1960
!CCDBC0167		1970

Data Elements	Description	Year
	Residential Structures	
!CCDBC0282		1940
	Housing Units	
!CCDBC0283		1940
!CCDBC0284		1950
!CCDBC0285		1960
!CCDBC0286		1970
	Percent Change	
!CCDBC0287		1960-1970
	Median Rooms Per Unit	
!CCDBC0288		1950
!CCDBC0289		1960
!CCDBC0290		1970
	Percent in Detached Structures	
!CCDBC0291		1950
!CCDBC0292		1960
!CCDBC0293		1970
	Percent in 5 or More Unit Structures	
!CCDBC0294		1940
	Percent in Structures Built since Previous Census	
!CCDBC0295		1950
!CCDBC0296		1960
!CCDBC0297		1970
	Housing units Built Since 2nd Previous Census	
!CCDBC0298		1970
	Percent With Private Bath or Shower	
!CCDBC0299		1940
	With Hot Water, Private Toilet, Bath Not Dilapidated	
!CCDBC0300		1950
	Sound with all Plumbing Facilities	
!CCDBC0301		1960
	with Electric Lighting	
!CCDBC0302		1940
	Index of Home Equipment	
!CCDBC0303		1960
	Occupied Units	
!CCDBC0304		1940
!CCDBC0305		1950
!CCDBC0306		1960
!CCDBC0307		1970
	Percent Lacking Some or all Plumbing	
!CCDBC0308		1970
	Percent with 1.01 or More Persons/Room	
!CCDBC0309		1960
!CCDBC0310		1970
	Percent With 1.01 Or more Persons/Room all Plumbing Facilities	
!CCDBC0311		1970
	Percent Moved in 2 Years Or less Before Census	

Data Elements	Description	Year
!CCDBC0312		1960
	Percent Moved in 5 Years Or less Before Census	
!CCDBC0313		1970
	Percent with Mechanical Refrigerator	
!CCDBC0314		1940
!CCDBC0315		1950
	with Central Heating	
!CCDBC0316		1950
	with Radio	
!CCDBC0317		1950
	Median Persons per unit	
!CCDBC0318		1940
!CCDBC0319		1950
	Mean Persons per unit	
!CCDBC0320		1960
!CCDBC0321		1970
	Occupied Units (Continued)	
	Percent Black & Races Other than White	
!CCDBC0322		1950
	Percent With Clothes Washing Machine	
!CCDBC0323		1960
	Percent With Home Food Freezer	
!CCDBC0324		1960
!CCDBC0325		1970
	Percent With Air Conditioning	
!CCDBC0326		1960
!CCDBC0327		1970
	Percent With TV	
!CCDBC0328		1960
	Percent With Telephone	
!CCDBC0329		1960
!CCDBC0330		1970
	Residence Telephones	
!CCDBC0331		1945
!CCDBC0332		1955
	Business Telephones	
!CCDBC0333		1955
	Occupied Units (Continued)	
	Percent With One or More Autos	
!CCDBC0334		1970
	One Auto	
!CCDBC0335		1960
	Two or More Autos	
!CCDBC0336		1960
	Black	
!CCDBC0337		1970
	Black Owner Occupied, Percent Lacking Some or All Plumbing	
!CCDBC0338		1970
	Occupied units Black,	

Data Elements	Description	Year
	Percent With 1.01+ Persons Per Room	
!CCDBC0339		1970
	Owner Occupied Units	
!CCDBC0340		1960
	Occupied Units, Percent Owner Occupied	
!CCDBC0341		1940
!CCDBC0342		1950
!CCDBC0343		1960
!CCDBC0344		1970
	Owner Occupied units, Single Family Median Value $	
!CCDBC0345		1960
!CCDBC0346		1970
	Black Occupied Units, Percent Owner Occupied	
!CCDBC0347		1970
	Renter Occupied Units	
!CCDBC0348		1960
	Median Gross Rent $	
!CCDBC0349		1960
!CCDBC0350		1970
	Vacant Units Year Round Available	
!CCDBC0351		1950
!CCDBC0352		1960
	Vacant Unit(s) Year Round Available For Rent Percent	
!CCDBC0353		1960
	Vacancy Rate Owner Units Percent	
!CCDBC0354		1970
	Renter Units Percent	
!CCDBC0355		1970
	Nonfarm Housing Units	
!CCDBC0356		1940
!CCDBC0357		1950
	Median Value Single Unit Owner-Occupied units $	
!CCDBC0358		1950
	Median Contract Rent $ (Renter-occupied)	
!CCDBC0359		1940
!CCDBC0360		1950
	Gross Rent $	
!CCDBC0361		1950
	Rural Farm Housing Units	
!CCDBC0362		1940
	Percent With Running Water	
!CCDBC0363		1940
	Percent With Elec. Lighting	
!CCDBC0364		1940
	New Private Units Authorized By Permit 2 Years	
!CCDBC0365		1975
	Percent In 1 Unit(s) Structures	

Data Elements	Description	Year
!CCDBC0366	Percent In 5 Or more Unit(s) Structures	1975
!CCDBC0367	Permit Value $1000	1975
!CCDBC0368		1975

Data Elements	Description	Year
	Auto Registrations Number of Cars	
!CCDBC0613		1947
	New Auto Sales Number of Cars	
!CCDBC0614		1947
	Retail Trade Establishments	
!CCDBC0615		1939
!CCDBC0616		1948
!CCDBC0617		1948
!CCDBC0618		1954
!CCDBC0619		1958
!CCDBC0620		1967
!CCDBC0621		1972
	_....With Payroll	
!CCDBC0622		1954
!CCDBC0623		1958
!CCDBC0624		1963
!CCDBC0625		1963
	_....Percent With Payroll	
!CCDBC0626		1967
!CCDBC0627		1972
	_....Operated by Unincorporated Business	
!CCDBC0628		1939
!CCDBC0629		1948
!CCDBC0630		1954
!CCDBC0631		1958
!CCDBC0632		1963
!CCDBC0633		1967
!CCDBC0634		1972
	_....Sales $1000	
!CCDBC0635		1939
!CCDBC0636		1948
!CCDBC0637		1954
!CCDBC0638		1958
!CCDBC0639		1963
!CCDBC0640		1967
!CCDBC0641		1972
	_....Sales Percent Change	
!CCDBC0642		1963
!CCDBC0643		1967
	_....With Payroll Sales $1000	
!CCDBC0644		1958
	_....Sales, Percent With Payroll	
!CCDBC0645		1967
!CCDBC0646		1972
	_....Sales, Food Stores $1000	
!CCDBC0647		1948
!CCDBC0648		1954
!CCDBC0649		1958
!CCDBC0650		1963
	_....Sales, Percent Food Stores	

Data Elements	Description	Year
!CCDBC0651		1967
!CCDBC0652		1972
	_....Sales, Automotive $1000	
!CCDBC0653		1954
!CCDBC0654		1958
!CCDBC0655		1963
	_....Sales, Percent Automotive	
!CCDBC0656		1967
!CCDBC0657		1972
	_....Sales, General Merchandise $1000	
!CCDBC0658		1954
!CCDBC0659		1958
!CCDBC0660		1963
	_....Sales, Percent General Merchandise	
!CCDBC0661		1967
!CCDBC0662		1972
	_....Sales, Eating & Drinking $1000	
!CCDBC0663		1948
!CCDBC0664		1954
	_....Sales, Percent Eating & Drinking	
!CCDBC0665		1967
!CCDBC0666		1972
	_....Sales, Gas Stations $1000	
!CCDBC0667		1948
!CCDBC0668		1954
	_....Sales, Percent Gas Stations	
!CCDBC0669		1967
!CCDBC0670		1972
	_....Sales, Home Furnishings $1000	
!CCDBC0671		1954
	_....Sales, Percent Home Furnishings	
!CCDBC0672		1967
!CCDBC0673		1972
	_....Sales, Building Materials $1000	
!CCDBC0674		1954
	_....Sales, Percent Building Materials	
!CCDBC0675		1967
!CCDBC0676		1972
	_....Sales, Apparel $1000	
!CCDBC0677		1948
!CCDBC0678		1954
	_....Sales, Percent Apparel	
!CCDBC0679		1967
!CCDBC0680		1972
	_....Sales, Percent Drug Stores	
!CCDBC0681		1967
!CCDBC0682		1972

Data Elements	Description	Year
	Establishments by Type	
	_....Food	
!CCDBC0683		1948
!CCDBC0684		1954
!CCDBC0685		1958
!CCDBC0686		1963
!CCDBC0687		1972
	_....Automotive	
!CCDBC0688		1954
!CCDBC0689		1958
!CCDBC0690		1963
!CCDBC0691		1972
	_....General Merchandise	
!CCDBC0692		1954
!CCDBC0693		1958
!CCDBC0694		1963
!CCDBC0695		1972
	_....Eating & Drinking	
!CCDBC0696		1948
!CCDBC0697		1954
!CCDBC0698		1972
	_....Gas Stations	
!CCDBC0699		1954
!CCDBC0700		1972
	_....Home Furnishings	
!CCDBC0701		1954
!CCDBC0702		1972
	_....Building Materials-Hardware	
!CCDBC0703		1954
	_....Apparel	
!CCDBC0704		1948
!CCDBC0705		1954

Data Elements	Description	Year
	RETAIL TRADE - PAYROLL & EMPLOYMENT	
	_....Payroll $1000	
!CCDBC0706		1939
!CCDBC0707		1954
!CCDBC0708		1958
!CCDBC0709		1963
!CCDBC0710		1967
!CCDBC0711		1972
	_....Paid Employees	
!CCDBC0712		1939
!CCDBC0713		1948
!CCDBC0714		1954
!CCDBC0715		1958
!CCDBC0716		1963
!CCDBC0717		1967
!CCDBC0718		1972

Data Elements	Description	Year
	Service Establishments Receipts Personal Business & Repair $1000	
!CCDBC0748		1948
	_....Receipts Personal $1000	
!CCDBC0749		1954
	_....Personal Business Repair	
!CCDBC0725		1948
	_....Personal	
!CCDBC0726		1954
	_....Paid Employees, Personal Business Repair	
!CCDBC0768		1948
	_....Active Proprietors, Personal Business Repair	
!CCDBC0774		1948

Data Elements	Description	Year
	Selected Services Establishments	
!CCDBC0719		1939
!CCDBC0720		1954
!CCDBC0721		1958
!CCDBC0722		1963
!CCDBC0723		1967
!CCDBC0724		1972
	_....Receipts $1000	
!CCDBC0734		1939
!CCDBC0735		1954
!CCDBC0736		1958
!CCDBC0737		1963
!CCDBC0738		1967
!CCDBC0739		1972
	_....Receipts Percent Change	
!CCDBC0740		1963
!CCDBC0741		1967
	_....With Payroll Receipts $1000	
!CCDBC0742		1958
	_....Receipts Percent Establishments With Payroll	
!CCDBC0743		1967
!CCDBC0744		1972
	_....Payroll $1000	
!CCDBC0756		1939
!CCDBC0757		1954
!CCDBC0758		1958
!CCDBC0759		1963
!CCDBC0760		1967
!CCDBC0761		1972
	_....Paid Employees	
!CCDBC0762		1939
!CCDBC0763		1954
!CCDBC0764		1958
!CCDBC0765		1963
!CCDBC0766		1967
!CCDBC0767		1972
	_....Paid Employees, Amusements	
!CCDBC0770		1948

Data Elements	Description	Year
	SERVICE ESTABLISHMENTS BY TYPE	
	Auto Repair	
!CCDBC0727		1954
	Tourists Courts & Camps	
!CCDBC0728		1948
	Amusements	
!CCDBC0729		1948
	With Payroll	
!CCDBC0730		1958
!CCDBC0731		1963
	Percent With Payroll	
!CCDBC0732		1967
!CCDBC0733		1972
	Receipts	
	_....Hotels Motels Camps $1000	
!CCDBC0745		1948
	_....Percent Hotels Motels Camps	
!CCDBC0746		1967
!CCDBC0747		1972
	_....Auto Repair $1000	
!CCDBC0750		1954
	_....Percent Auto Repair	
!CCDBC0751		1967
!CCDBC0752		1972
	_....Amusement $1000	
!CCDBC0753		1948
	_....Percent Amusement	
!CCDBC0754		1967
!CCDBC0755		1972
	_....Paid Employees Tourist Courts & Camps	
!CCDBC0769		1948
	_....Active Proprietors	
!CCDBC0771		1939
!CCDBC0772		1954
!CCDBC0773		1958

Data Elements	Description	Year
	Wholesale Trade Establishments	
!CCDBC0775		1939
!CCDBC0776		1948
!CCDBC0777		1954
!CCDBC0778		1958
!CCDBC0779		1963
!CCDBC0780		1967
!CCDBC0781		1972
	_....Merchant Wholesalers	
!CCDBC0782		1954
!CCDBC0783		1958
	_....Percent Merchant Wholesalers	
!CCDBC0784		1972
	_....Sales $000	
!CCDBC0785		1939
!CCDBC0786		1948
!CCDBC0787		1954
!CCDBC0788		1958
!CCDBC0789		1963
	Millions of Dollars	
!CCDBC0790		1967
!CCDBC0791		1972
	_....Percent Change	
!CCDBC0792		1967
	_....Merchant Wholesalers $1000	
!CCDBC0793		1954
!CCDBC0794		1958
!CCDBC0795		1963
	_....Percent Merchant Wholesalers	
!CCDBC0796		1967
!CCDBC0797		1972
	_....Paid Employees	
!CCDBC0798		1948
!CCDBC0799		1954
!CCDBC0800		1958
!CCDBC0801		1963
!CCDBC0802		1967
!CCDBC0803		1972
	Payroll $1000	
!CCDBC0804		1954
!CCDBC0805		1958
!CCDBC0806		1963
!CCDBC0807		1967
!CCDBC0808		1972
	_....Proprietors	
!CCDBC0809		1954

Data Elements	Description	Year
	Mineral Industries Establishments	
!CCDBC0810		1958
!CCDBC0811		1963
!CCDBC0812		1967
!CCDBC0813		1972
	Employees	
!CCDBC0814		1939
!CCDBC0815		1958
!CCDBC0816		1963
	Employees (thousands)	
!CCDBC0817		1967
!CCDBC0818		1972
	Employees Percent Change	
!CCDBC0819		1967
	Payroll $1000	
!CCDBC0820		1939
!CCDBC0821		1958
!CCDBC0822		1963
	Payroll (millions of dollars)	
!CCDBC0823		1967
!CCDBC0824		1972
	Value Shipments & Receipts $M	
!CCDBC0825		1939
!CCDBC0826		1958
!CCDBC0827		1963
!CCDBC0828		1967
!CCDBC0829		1972
!CCDBC0830		1954
!CCDBC0831		1958
	_....Percent Change	
!CCDBC0832		1967
	Value Added $M	
!CCDBC0833		1963
!CCDBC0834		1972
	Capital Expenditures $1000	
!CCDBC0835		1963

Data Elements	Description	Year
	Manufacturing Establishments	
!CCDBC0481		1939
!CCDBC0482		1947
!CCDBC0483		1954
!CCDBC0484		1958
!CCDBC0485		1963
!CCDBC0486		1967
!CCDBC0487		1972
!CCDBC0488		1939
!CCDBC0489		1950
	_....With 1-19 Employees	
!CCDBC0490		1947
!CCDBC0491		1950
!CCDBC0492		1954
	_....With 20 or More Employees	
!CCDBC0493		1963
	_....Percent With 20 or More Employees	
!CCDBC0494		1972
	_.....With 20-99 Employees	
!CCDBC0495		1954
!CCDBC0496		1958
!CCDBC0497		1963
	_....Percent With 20-99 Employees	
!CCDBC0498		1967
	_.....With 20-49 Employees	
!CCDBC0499		1947
!CCDBC0500		1950
	_.....With 50-99 Employees	
!CCDBC0501		1947
!CCDBC0502		1950
	_.....With 100 Employees or More	
!CCDBC0503		1954
!CCDBC0504		1958
!CCDBC0505		1963
	_.....Percent With 100 Employees or More	
!CCDBC0506		1967
!CCDBC0507		1972
	_.....With 100-249 Employees	
!CCDBC0508		1947
!CCDBC0509		1950
	_.....With 250 Employees or More	
!CCDBC0510		1947
!CCDBC0511		1950
	Employees	
!CCDBC0512		1947
!CCDBC0513		1947
!CCDBC0514		1954
!CCDBC0515		1958
!CCDBC0516		1963
!CCDBC0517		1967

Data Elements	Description	Year
!CCDBC0518		1972
!CCDBC0519		1949
!CCDBC0520		1950
	Employees Percent Change	
!CCDBC0521		1967
	Payroll $1000	
!CCDBC0522		1947
!CCDBC0523		1954
!CCDBC0524		1958
!CCDBC0525		1963
	Payroll Million Dollars	
!CCDBC0526		1967
!CCDBC0527		1972
	Taxable Payroll $1000	
!CCDBC0528		1949
!CCDBC0529		1950
	Production Workers	
!CCDBC0530		1939
!CCDBC0531		1947
!CCDBC0532		1954
!CCDBC0533		1958
!CCDBC0534		1963
!CCDBC0535		1967
!CCDBC0536		1972
	Manufacturing Production Workers Hours Worked $1000	
!CCDBC0537		1958
!CCDBC0538		1963
	Millions	
!CCDBC0539		1967
!CCDBC0540		1972
	Manufacturing Production Workers Wages $1000	
!CCDBC0541		1939
!CCDBC0542		1947
!CCDBC0543		1954
!CCDBC0544		1958
!CCDBC0545		1963
	_....Million Dollars	
!CCDBC0546		1967
!CCDBC0547		1972
	Manufacturing Establishments Value of Products $1000	
!CCDBC0548		1939
	Value-Added $1000	
!CCDBC0549		1939
!CCDBC0550		1947
!CCDBC0551		1954
!CCDBC0552		1958
!CCDBC0553		1963
	Value-Added Million Dollars	
!CCDBC0554		1967
!CCDBC0555		1972

Data Elements	Description	Year
	Added Percent Change	
!CCDBC0556		1963
!CCDBC0557		1967
	New Capital Expenditures $1000	
!CCDBC0558		1954
!CCDBC0559		1958
!CCDBC0560		1963
	$Mil.	
!CCDBC0561		1967
!CCDBC0562		1972
	Number of Establismments With 20 Or More Employees by Type	
	Food & Tobacco	
!CCDBC0563		1963
	Food	
!CCDBC0564		1947
!CCDBC0565		1954
	Tobacco	
!CCDBC0566		1947
!CCDBC0567		1954
	Textile-Apparel-Leather	
!CCDBC0568		1963
	Textile	
!CCDBC0569		1947
!CCDBC0570		1954
	Apparel	
!CCDBC0571		1947
!CCDBC0572		1954
	Leather	
!CCDBC0573		1947
!CCDBC0574		1954
	Paper & Printing	
!CCDBC0575		1963
	Paper (Excl.Pulp)	
!CCDBC0576		1947
	Paper (Incl.Pulp)	
!CCDBC0577		1954
	Printing & Publishing	
!CCDBC0578		1947
!CCDBC0579		1954
	Chem. Petro. Rubber and Plastics	
!CCDBC0580		1963
	Chemicals	
!CCDBC0581		1947
!CCDBC0582		1954
	Petroleum	
!CCDBC0583		1947
!CCDBC0584		1954
	Rubber	

Data Elements	Description	Year
!CCDBC0585		1947
!CCDBC0586		1954
	Lumber Wood Furniture	
!CCDBC0587		1963
	Lumber Excluding Furniture	
!CCDBC0588		1947
!CCDBC0589		1954
	Furniture and Fixtures	
!CCDBC0590		1947
!CCDBC0591		1954
	Stone Clay and Glass	
!CCDBC0592		1947
!CCDBC0593		1954
!CCDBC0594		1963
	Primary & int. Metals	
!CCDBC0595		1963
	Primary Metals	
!CCDBC0596		1947
!CCDBC0597		1954
	Fabricated Metals	
!CCDBC0598		1947
!CCDBC0599		1954
	Electric & Non Electric Machinery	
!CCDBC0600		1963
	Machinery Except Electric.	
!CCDBC0601		1947
!CCDBC0602		1954
	Electric. Machinery	
!CCDBC0603		1947
!CCDBC0604		1954
	Transportation & Ordnance	
!CCDBC0605		1963
	Transportation Equipment.	
!CCDBC0606		1947
!CCDBC0607		1954
	Instruments & Miscellaneous	
!CCDBC0608		1963
	Instruments	
!CCDBC0609		1947
!CCDBC0610		1954
	Miscellaneous	
!CCDBC0611		1947
!CCDBC0612		1954

Data Elements	Description	Year
	Major War Supply Contracts Combat Equipment. $M	
!CCDBC0443		1940
	Other $1000	
!CCDBC0444		1940
	Facilities Projects Industrial $1000	
!CCDBC0445		1940
	Military $1000	
!CCDBC0446		1940

Data Elements	Description	Year
	Farms	
!CCDBC0836		1940
!CCDBC0837		1945
!CCDBC0838		1950
!CCDBC0839		1954
!CCDBC0840		1959
!CCDBC0841		1964
!CCDBC0842		1969
!CCDBC0843		1974
	Farms Percent Change	
!CCDBC0844		1964
!CCDBC0845		1969
	Commercial Farms	
!CCDBC0846		1950
!CCDBC0847		1954
!CCDBC0848		1959
!CCDBC0849		1964
	With $2500 or Less Products Sold	
!CCDBC0850		1954
!CCDBC0851		1959
	Percent With $2500 Or less Products Sold	
!CCDBC0852		1964
	With $10000+ Products sold	
!CCDBC0853		1959
	Percent With $10000+ Products Sold	
!CCDBC0854		1964
	With $25000+ Products Sold	
!CCDBC0855		1954
	Farms Part Time	
!CCDBC0856		1954
!CCDBC0857		1959
!CCDBC0858		1964
	Percent Operated by Tenants	
!CCDBC0859		1940
!CCDBC0860		1945
!CCDBC0861		1950
!CCDBC0862		1954
!CCDBC0863		1959
!CCDBC0864		1964
	Land in Farms 1000 Acres	
!CCDBC0865		1945
!CCDBC0866		1950
!CCDBC0867		1954
!CCDBC0868		1959
!CCDBC0869		1964
!CCDBC0870		1969
!CCDBC0871		1974
	Percent Change	
!CCDBC0872		1964
!CCDBC0873		1969

Data Elements	Description	Year
	Percent in Farms	
!CCDBC0874		1954
!CCDBC0875		1959
!CCDBC0876		1964
!CCDBC0877		1969
!CCDBC0878		1974
	Cropland 1000 Acres	
!CCDBC0879		1974
	Harvested 1000 Acres	
!CCDBC0880		1945
!CCDBC0881		1950
!CCDBC0882		1954
	Commercial Farms 1000 Acres	
!CCDBC0883		1950
	Percent Harvested	
!CCDBC0884		1974
	Value of Farm Property $1000	
!CCDBC0885		1940
	Average per Farm $	
!CCDBC0886		1940
	Value of Farm Land & Buildings $1000	
!CCDBC0887		1945
	Value of Farm Land and Buildings Average per Farm $	
!CCDBC0888		1945
!CCDBC0889		1950
!CCDBC0890		1954
!CCDBC0891		1959
!CCDBC0892		1964
!CCDBC0893		1969
	Average per farm (thousands of dollars)	
!CCDBC0894		1974
	Average per Commercial Farm $	
!CCDBC0895		1950
	Value of Farm Land and Buildings Average per Acre $	
!CCDBC0896		1945
!CCDBC0897		1954
!CCDBC0898		1959
!CCDBC0899		1964
!CCDBC0900		1969
!CCDBC0901		1974
	Average Size of Farms Acres	
!CCDBC0902		1954
!CCDBC0903		1959
!CCDBC0904		1964
!CCDBC0905		1969
!CCDBC0906		1974
	Farms Under 10 Acres	
!CCDBC0907		1954
!CCDBC0908		1959
!CCDBC0909		1964

Data Elements	Description	Year
!CCDBC0910		1969
!CCDBC0911		1974
	180 Acres	
!CCDBC0912		1974
	With 1000 Acres or More	
!CCDBC0913		1954
!CCDBC0914		1959
!CCDBC0915		1964
!CCDBC0916		1969
!CCDBC0917		1974
	with Sales $2500 or More	
!CCDBC0918		1969
!CCDBC0919		1974
	with Sales $2500 or More, Percent Operated by Corporation	
!CCDBC0920		1969
!CCDBC0921		1974
	Percent with Sales of $10000-$39999	
!CCDBC0922		1969
!CCDBC0923		1974
	Percent with Sales of $40000 or More	
!CCDBC0924		1969
!CCDBC0925		1974
	with Sales Less Than $2500	
!CCDBC0926		1969
	Part Time Farms Percent With Sales Under $2500	
!CCDBC0927		1969
	Farm Expenditures for Production, Million Dollars	
!CCDBC0928		1974
	Livestock & Poultry Feed $1000	
!CCDBC0929		1950
!CCDBC0930		1954
!CCDBC0931		1959
	Hired Labor $1000	
!CCDBC0932		1950
!CCDBC0933		1954
!CCDBC0934		1959
	Hired Labor Million Dollars	
!CCDBC0935		1974
	Commercial Fertilizer $1000	
!CCDBC0936		1954
	Commercial Fertilizers Used Tons	
!CCDBC0937		1959
	Value of Farm Products Sold $1000	
!CCDBC0938		1950
!CCDBC0939		1954
!CCDBC0940		1959
!CCDBC0941		1964
	Farm Products Sold Average Value per Farm $	
!CCDBC0942		1964

Data Elements	Description	Year
	Value of Crops Sold $1000	
!CCDBC0943		1950
!CCDBC0944		1954
!CCDBC0945		1959
!CCDBC0946		1964
	Value of Livestock & Livestock Products Sold $1000	
!CCDBC0947		1950
!CCDBC0948		1954
!CCDBC0949		1959
!CCDBC0950		1964
	Dairy Products Sold $1000	
!CCDBC0951		1950
!CCDBC0952		1954
!CCDBC0953		1959
	Poultry & Poultry Products Sold $1000	
!CCDBC0954		1950
!CCDBC0955		1954
!CCDBC0956		1959
	Farms With Sales $2500 or more	
	Value of Products Sold $000	
!CCDBC0957		1969
	$Million	
!CCDBC0958		1974
	Average Value Products Sold	
!CCDBC0959		1969
	Value Products Sold Percent Crops	
!CCDBC0960		1969
!CCDBC0961		1974
	Value Products Sold Percent Dairy	
!CCDBC0962		1969
!CCDBC0963		1974
	Value Products Sold %Livestock plus Products.	
!CCDBC0964		1969
!CCDBC0965		1974
	Value Poultry + Products Percent	
!CCDBC0966		1969
!CCDBC0967		1974
	Farms Percent With Value of Products Less than $400	
!CCDBC0968		1940
	Farms With Value of Products $1000 or More	
!CCDBC0969		1945
	Value of Products Sold or Used $1000	
!CCDBC0970		1945
	Percent From Sales of Livestock plus Products.	
!CCDBC0971		1945
	Percent From Sales of Crops	
!CCDBC0972		1945
	Traded or Used $1000	
!CCDBC0973		1940
	Percent From Livestock +Livestock Products	

County Data Book Data Elements	AGRICULTURE Description	Year
!CCDBC0974		1940
	Percent From crops	1940
!CCDBC0975		
	Farms With Dwellings With Electricity	
!CCDBC0976		1945
	Running Water	
!CCDBC0977		1945
	With Electricity	
!CCDBC0978		1950
	Percent With Electricity	
!CCDBC0979		1954
	With Electric. Last Monthly Bill Average $	
!CCDBC0980		1950
	With Telephones	
!CCDBC0981		1950
	Percent With Telephones	
!CCDBC0982		1954
!CCDBC0983		1959
	Percent With Trucks	
!CCDBC0984		1959
	Percent With Tractors	
!CCDBC0985		1954
!CCDBC0986		1959
	Without Tractors Horses or Mules	
!CCDBC0987		1950
	Percent With Piped Running Water	
!CCDBC0988		1954
	With TV	
!CCDBC0989		1954
	Cattle or Calves of All Ages on Farms	
!CCDBC0990		1945
!CCDBC0991		1950
!CCDBC0992		1954
!CCDBC0993		1959
	Horses + Mules 3 Months or More on Farms	
!CCDBC0994		1940
	Hogs & Pigs on Farms	
!CCDBC0995		1954
	Tractors on Farms	
!CCDBC0996		1940
!CCDBC0997		1945
!CCDBC0998		1950
!CCDBC0999		1954
	Trucks on Farms	
!CCDBC1000		1950
!CCDBC1001		1954
	Autos on Farms	
!CCDBC1002		1950
!CCDBC1003		1954

Data Elements	Description	Year
	FARM HOUSEHOLDS, LEVEL OF LIVING	
	Persons in Farm Operator Household	
!CCDBC1004		1964
	Farm Operator Household Income From Sources Other Than Farm Operated $1000	
!CCDBC1005		1964
	Percent from Emplyment	
!CCDBC1006		1964
	Farm Operators Percent Residing on Farm Operated	
!CCDBC1007		1969
!CCDBC1008		1974
	Working 100 Or more Days Off Farm	
!CCDBC1009		1945
!CCDBC1010		1950
!CCDBC1011		1964
	Percent Working 100 or More days off Farm	
!CCDBC1012		1969
!CCDBC1013		1974
	Principal Source of Farm Income	
!CCDBC1014		1940
	0 Farm Products Used by Farm	
	1 Livestock	
	2 Dairy Products	
	3 Poultry and Poultry Products	
	4 Other Livestock	
	5 Field Crops	
	6 Vegatables	
	7 Fruits and Nuts	
	8 Horticultural Specilities	
	9 Forest Products	
	Farm Income Percent From Principal Source	
!CCDBC1015		1940
	Rural Level of Living Index	
!CCDBC1016		1940
	Farm Operator Family Level of Living Index	
!CCDBC1017		1945
!CCDBC1018		1950
!CCDBC1019		1959
!CCDBC1020		1940
!CCDBC1021		1950
	Foreign Stock Percent Lead Country of Origin	
!CCDBC1022		1970

Data Elements	Description	Year
	Bank Deposits (thousands of dollars)	
!CCDBC0447		1944
!CCDBC0448		1949
!CCDBC0449		1950
!CCDBC0450		1956
!CCDBC0451		1960
!CCDBC0452		1964
	Bank Deposits (millions of dollars)	
!CCDBC0453		1970
!CCDBC0454		1976
	Percent Change	
!CCDBC0455		1960
	Demand Deposits $1000	
!CCDBC0456		1960
!CCDBC0457		1964
	Time Deposits $1000	
!CCDBC0458		1944
!CCDBC0459		1949
!CCDBC0460		1950
!CCDBC0461		1956
!CCDBC0462		1960
!CCDBC0463		1964
	Million Dollars	
!CCDBC0464		1970
!CCDBC0465		1976
	Savings and Loan Associations	
!CCDBC0466		1948
!CCDBC0467		1950
	Savings Capital $1000	
!CCDBC0468		1948
!CCDBC0469		1950
!CCDBC0470		1960
!CCDBC0471		1964
	Million Dollars	
!CCDBC0472		1970
!CCDBC0473		1976
	Savings and Loan Savings Capital Percent Change	
!CCDBC0474		1960
	First Mortgage Loans $1000	
!CCDBC0475		1948
!CCDBC0476		1950
!CCDBC0477		1960
	E Bond Sales $1000	
!CCDBC0478		1944
!CCDBC0479		1949
!CCDBC0480		1950

Data Elements	Description	Year
	Local Government - Revenue	
	Local Government General Revenue $1000	
!CCDBC0386		1957
!CCDBC0387		1962
	Million Dollars	
!CCDBC0388		1967
!CCDBC0389		1971
	Intergovernmental Million Dollars	
!CCDBC0390		1971
	Percent Intergovernmental	
!CCDBC0391		1962
!CCDBC0392		1967
	Intergovernmental, percent Federal	
!CCDBC0393		1971
	Taxes Million Dollars	
!CCDBC0394		1971
	Taxes Percent of General Revenue	
!CCDBC0395		1962
!CCDBC0396		1967
	Property Tax Percent of General Revenue	
!CCDBC0397		1957
	Per Capita $	
!CCDBC0398		1962
!CCDBC0399		1967
!CCDBC0400		1971
	Local Government - Expenditures	
	Direct General Expenditures $1000	
!CCDBC0401		1957
!CCDBC0402		1962
	Million Dollars	
!CCDBC0403		1967
!CCDBC0404		1971
	Per Capita, Excluding Capital Outlays $	
!CCDBC0405		1962
!CCDBC0406		1967
!CCDBC0407		1971
	Education $M	
!CCDBC0408		1962
	Percent Education	
!CCDBC0409		1957
!CCDBC0410		1967
!CCDBC0411		1971
	Highways $1000	
!CCDBC0412		1962
	Percent Highways	
!CCDBC0413		1967
!CCDBC0414		1971

Data Elements	Description	Year
	Public Welfare $1000	
!CCDBC0415		1962
	Percent Public Welfare	
!CCDBC0416		1967
!CCDBC0417		1971
	Health & Hospital $1000	
!CCDBC0418		1962
	Percent Health & Hospital	
!CCDBC0419		1967
!CCDBC0420		1971
	Police Protection $M	
!CCDBC0421		1962
	Local Government - Indebtedness	
	General Debt Outstanding $1000	
!CCDBC0422		195/
!CCDBC0423		1962
	Million Dollars	
!CCDBC0424		1967
!CCDBC0425		1971
	Per Capita	
!CCDBC0426		1971

Known Errors and Omissions

This file uses a set of common county codes for all data elements, regardless of the version of the county data book from which they were drawn. For example, for the data element CCDBC0015 (1970 Population from the 1972 county data book), county codes are 1972 FIPS codes. For the data element CCDBC0016 (1970 Population from the 1977 county data book), county codes are 1977 FIPS codes.

Certain counties were redefined between 1972 and 1977. For example, state-county 51153 (Prince William County in Virginia) included Manassas City and Manassas Park City in 1972 but not in 1977. As a result, the data elements CCDBC0015 and CCDBC0016 refer to different geographic areas are are not directly comparable.

Similar inconsistencies exist between all data elements drawn from different editions of the County Data Book, for those counties whose definitions changed in the meantime.

To know which data elements were drawn from which editions of the County Data Book, consult the County Data Book printed documentation. (Fred Gey has a copy at LBL).

To know which counties changed definition between two editions of the County Data Book, consult Census Bureau documentation or old U.S. atlases. A partially validated record of such changes, compiled by Deane Merrill, is in sy$seedis:[seedis.area]cnty6083.key.

Technical Information
COUNTY80 level (1980 Census Counties)

In March 1984, Deane Merrill installed these data at the COUNTY80 level (1980 Census Counties) by executing the following command file county80.com:

```
$!disk$seedis001:[seedis.seedata.ccntdb77.county80]county80.com
$! install 1977 city county data book at county80 level
$set def disk$seedis001:[seedis.seedata.ccntdb77.county80]
$ch # $ >county80x.com
#! county80x.com 'pl'=FIPS.STATE code
#ch <[-.county]s'pl'.ndx >s'pl'.ndx FIPS.COUNTY FIPS.COUNTY80
#! end of county80x.com
$@county80x 01
$@county80x 02
$@county80x 04
  etc
$@county80x 55
$@county80x 56
$rm county80x.com
```

U.S. GOVERNMENT PRINTING OFFICE 1986-491-016/45808

END

DTIC

7-86