Interactive Data Retrieval
and
Graphic Analysis Systems

LBL 6440 C-2
UC-32
TID 4500-R65

SEEDIS MONITOR

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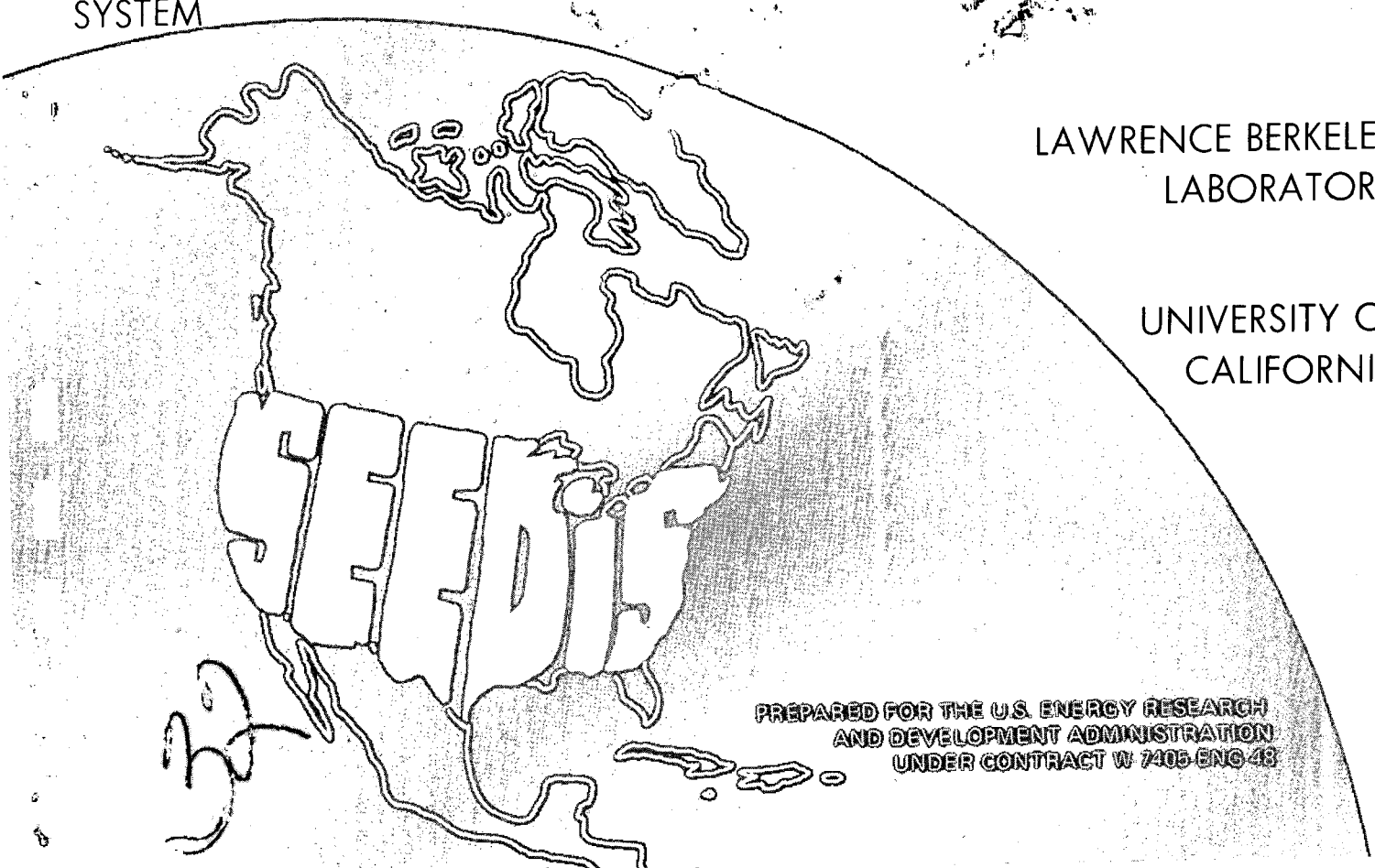
SOCIO-
ECONOMIC-
ENVIRONMENTAL-
DEMOGRAPHIC

INFORMATION
SYSTEM



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LABORATORY

UNIVERSITY OF
CALIFORNIA

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```
M        M    00000     N       N    III    TTTTTTT    00000    RRRRRR
M        M   O     O    NN      N     I        T      O     O   R     R
MM      MM   O     O    N N     N     I        T      O     O   R     R
MM      MM   O     O    N  N    N     I        T      O     O   RRRRRR
M M    M M   O     O    N   N   N     I        T      O     O   R    R
M  M M  M    O     O    N    N  N     I        T      O     O   R     R
M   M   M    O     O    N     NN     I        T      O     O   R     R
M        M    00000     N       N    III       T       00000   R     R
```

Users Guide

Last Update Took Place On

May 27, 1977

Address questions to

Peter Kreps
Building 50B - Room 2239
Lawrence Berkeley Laboratory
University of California
Berkeley, California 94720

Phone (415) 843-2740 Extension 5830

Prepared by

Peter T. Kreps and Virginia A. Sventek

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INTRODUCTION TO SEEDIS

The LBL Socio-Economic-Environmental-Demographic Information System (SEEDIS) consists of a set of program modules for retrieving, analyzing, and displaying selected portions of a very large data base used for environmental impact studies, energy policy analysis, and manpower assessment. The project originated in 1972 with the acquisition and installation of most of the 1970 Census of Population on LBL's 50 billion character direct-access mass storage system. The addition of other large data bases, including various economic censuses, air quality data, energy data, etc., demonstrated the value of an integrated information system in carrying out these studies. As programs for manipulating and displaying this data were developed for a series of projects, it became evident that the SEEDIS facilities should be made available to a broad spectrum of researchers and analysts througout ERDA and other federal agencies. In 1977, a memorandum of understanding between ERDA's Administrator for Environment and Safety and the Department of Labor's Employment and Training Administration was signed providing joint support for the development of SEEDIS. This collaborative effort provides access to the large base of manpower statistics and socio-economic indicators collected by DOL and to the large-scale computational facilities and computer science expertise supported by ERDA.

SEEDIS MONITOR

The avilability of remote access to LBL computers, both dial-up and via the arpanet, created a demand from the user community for a user-friendly interface to the complex data management, analysis, and display modules in SEEDIS. This demand led to the development of the SEEDIS monitor, an executive program which eases the burden of using LBL's complex job control language by performing many routine tasks specified by a simple user command with a few options.

The Monitor is designed to provide straightforward access to a collection of SEEDIS modules and to the basic file storage facilities of the BKY operating system. In addition, it provides a local computer mail service for SEEDIS users, and on-line help for each module. In most cases, the user can summon help at any point in the dialogue by typing '?' or 'help', and instructions will be issued suggesting the appropriate input.

One of the most important features of the SEEDIS Monitor is the '*' option which provides feedback to the systems designers from the users on difficulties and suggested improvements. This option allows the users to participate directly in the evolution of the system and ensures a timely response from the designers.

The modules currently included in the Monitor are

Help - Documentation, Learning Aids, Consulting

Version	-	Monitor version number
News	-	List changes made to Monitor
Help	-	On-line access to documentation

Getting On and Off

Login	-	Enter Monitor system
Newuser	-	Add name to userlist
Stop	-	End the job

Communication

Post	-	Mail a message to a user
Pickup	-	Retrieve mail
Userlist	-	Show list of current Monitor users
*	-	Enter comment to session record
Who	-	List port numbers and users
Terminal Message	-	Transmit message to another termina
Deliver	-	Route copy of workspace

Files

List	-	List contents of library
Setlib	-	Change working library
Neted	-	Make changes to the workspace
Load	-	Load subset onto workspace
Store	-	Store workspace in library
Show	-	Display workspace
Move	-	Change subset name
Destroy	-	Delete subset from library
Erase	-	Delete contents of workspace
Files	-	List all files
Rlist	-	List report formats

SEEDIS-Data Retrieval and Display

Terminal	-	Specify terminal type
Set Reportlib	-	New format library
CHART	-	Graphic Display and Analysis System
REPORT	-	Report Generation System
ESARS	-	ESARS Retrieval System
FIFPAK	-	1970 Fifth Count Census Retrieval System

REAP - A Friendly Information System for Retrieval of County Level Data
CARTE - A Thematic Mapping System
LBLIRI - The LBL Interactive Resource Index

Modules to be added in the future include

PARAP - Populations at risk to air pollution data base, including county level data on population characteristics, air quality monitoring data and station locations, mortality, and cancer incidence.

LMPM - Labor Market Projection Model, including access to the Current Population Surveys for 1969 to 1976.

BDMS - Berkeley Data Management System, a general purpose, hierarchical data management system with interactive data entry and retrieval

The contents of this document are meant to replicate the on-line help facility of the Monitor with additional information regarding the connection of terminals to the computer center, terminal operation, and LBL computer system queries. The appendix contains examples of possible uses to which each of the SEEDIS systems can be put.

The following is an explanation and description of how Monitor works and how to use it.

By glancing at the module description (on page 14) you will notice that it is divided into several **sections**

1. Module name and brief description
2. Command syntax (in many cases this may be simply the module name)
3. Detailed description of the module
4. Command options for which prompts are available if left off command line
5. Cross reference to other related manual sections

The following are examples of the Monitor displaying the logon procedure and the use of the 'POST' module. This module allows you to compose a letter to be delivered to another user. The description for 'POST' (page 14) describes this module in the order outlined above. The examples show

1. The Monitor prompting for all required information
2. Elimination of that prompting.

Those lines which were typed by the user in response to Monitor's prompting are printed in boldface.

A complete and detailed explanation and example of both the procedure to be followed to connect a terminal to the LBL computer center and the logon procedure to Monitor are contained in Appendices C and D

EXAMPLE 1

```
>LOG,SEEDIS,12,1000.123456,SVENTEK
LOGIN CP-25  TTY-070  10.34.00**BKY68A*B*05/20/77
SEEDI00 LOGGED IN.  SESAME 3.2
OK - SESAME

START SEEDIS
```

```
IN ORDER TO USE THE SEEDIS MONITOR YOU MUST HAVE A VALID
USER(LOGIN) NAME THAT IS KNOWN BY THE SYSTEM.  IF YOU DO
NOT HAVE ONE AND WISH TO OBTAIN ONE PLEASE CONTACT
     VIRGINIA SVENTEK, LBL, BERKELEY, (415-843-2740 X5216)
OR     PETER KREPS, LBL, BERKELEY, (415-843-2740 X 5830)

THE USER NAME 'GUEST' MAY BE USED AS A TEMPORARY NAME TO
TRY OUT THE MONITOR.

PLEASE TYPE YOUR USER NAME (UP TO 10 CHARACTERS, NO BLANKS OR
PUNCTUATION)

NAME- SVENTEK
PASSWORD- XXX

VERIFYING LOGIN...

WELCOME TO THE SEEDIS MONITOR -- 19 MAY 77 11.46.29. PST
VERSION 2.4
LAST UPDATE 5/16/77
SEE 'NEWS' FOR DETAILS OF RECENT CHANGES AFFECTING REAP,SETLIB AND
NEWUSER.

PLEASE DIRECT ANY INQUIRIES, PROBLEMS, COMMENTS, OR CRITICISM
CONCERNING THE SEEDIS MONITOR BY 'POST' TO USER 'KREPS'.

WORKING LIBRARY = SVENTEK

DOIT>POST
NAME THE MESSAGE FILE-MESSAGE
NAME THE ADDRESSEE-KREPS

USE NETED TO MAKE UP 'MESSAGE'
  NETED 2.0
MESSAGE NOT FOUND. INPUT.
DEAR PETER,
I AM TESTING THE POST MODULE FOR THE MONITOR MANUAL
VIRGINIA
.
EDIT
SAVE
MESSAGE WRITTEN.
POSTING 'MESSAGE' TO USER 'KREPS'...
MAIL HAS BEEN SENT.
DOIT>
```

Notice that by typing only the first word of the command syntax, (the second line of the module description) in this case 'POST', Monitor has readied itself to perform all the tasks necessary to post a message to another user. All information needed by the Monitor for the completion of this task was prompted for.

Again, by looking at the module description we see that the NETED module is referred to for details on creating the message file.

Also notice that each time a module has completed its task, Monitor responds with 'DOIT>'. At that point, you may ask Monitor to execute another module.

We will now 'turn off' the prompting from Monitor by anticipating the information needed and typing it all one one line following the module name (see section 2 of module description). (Note - if you forget to enter a piece or pieces of information, you will be prompted for them. Eliminating the prompting is not recommended until you are well acquainted with the Monitor.)

We will now use the POST module and eliminate the prompting

EXAMPLE 2

```
DOIT>POST MESSAGE KREPS
USE NETED TO MAKE UP 'MESSAGE'
DEAR PETER
I AM TESTING THE POST MODULE FOR THE MONITOR MANUAL.
vIRGINIA
.

EDIT
SAVE
MESSAGE WRITTEN.
POSTING 'MESSAGE TO USER 'KREPS'...
MAIL HAS BEEN SENT .
DOIT>
```

Appendix A contains an extensive example of the Monitor. It may be beneficial to your understanding to duplicate the example at your own terminal.

The next chapter is composed of module descriptions for each module available within the Monitor.

VERSION - MONITOR COMMAND FILE VERSION

Version

Description

Displays the name and version number of the current Monitor command file plus the date of its last change. Command file changes are not always reflected by a new version number for the Monitor itself. The 'NEWS' command will give you a detailed listing of all changes.

For more information, see also

NEWS

NEWS - LIST CHANGES MADE TO MONITOR

News

Description

Changes to the Monitor are outlined in detail by the 'NEWS' module, beginning with the most recent changes.

When you tire of reading, type the five characters '>drop', which will return you to the Monitor.

For more information, see also

VERSION

HELP - ONLINE ACCESS TO DOCUMENTATION

Help [help command]

Description

The HELP system provides access to existing writeups, users guides, and other documentation modeled after the way people look things up in daily life. Help is available within most of the SEEDIS subsystems as well as the Monitor. Individual pages from the table of contents, index, and text body of users guides for each subsystem can be displayed at the terminal by typing this help command from within the corresponding subsystem.

The list of commands recognized by the help system is displayed in response to the question mark (?) command. On-line access to this writeup is available from within the Monitor.

LOGIN - ENTER THE MONITOR SYSTEM

Login username

Description

After starting the Monitor system, you will be asked to login with your name and password. This process will create an environment for you in which the storage and retrieval of your data and mail will be made easier. For this to happen, however, your name must be on the list of current Monitor users. (See the 'NEWUSER' module.)

If your name is not on the list of Monitor users you may temporarily login as user name 'GUEST'. Guest users may store and retrieve data although the preservation of data stored in the guest library is not guaranteed from session to session.

More than one person can make use of the Monitor during the course of a job. This is done by calling the LOGIN module and typing the next user's name and password when requested. The storage and retrieval environment will be changed to accommodate the next user's needs.

Prompts available

Username
Password

For more information, see also

NEWUSER
USERLIST

NEWUSER - ADD NAME TO USERLIST

Newuser Username Groupnumber Groupname Ownername Password
Working-library, Initial-module

Description

'USERNAME' is added to the list of current Monitor users. A library for the storage and retrieval of the users data and a mailbox for receiving mail is created at this time.

If you have never used the new user module, contact Virginia Sventek at LBL (FTS 451-5216) for assistance.

Make a note of the information entered at this time - you may need it in the future.

Username	This name may be up to 10 characters in length and should not include blanks or punctuation. Usually your last name. This will become the title of your working library, unless you specify otherwise below.
Groupnumber	A 1-3 digit group identification number.
Groupname	Name of the group which owns all the libraries contained in the group.
Ownername	The owner name of your working library.
Password	Anything. You will be asked to type in the password each time you login to the Monitor system. Your name and the password must match. Keep it simple - you'll be typing it often.
Working library	You can specify a working library other than the one created above. If you do not choose to respecify a library, leave this one blank.
Initial module	You may make provision for a particular module to start up automatically each time you log onto the Monitor. This one can be left blank also.

Prompts available

Username
Groupnumber
Groupname
Ownername

Password
Working-library
Initial module

For more information, see also

LOGIN

STOP - END THE JOB

Stop

Description

'STOP' will end the Monitor session and disconnect your terminal from the LBL computer center. Your confirmation is required before the job is actually ended.

Prompts available

Confirmation

POST - MAIL A MESSAGE TO A USER

Post message person

Description

With the 'POST' module you can compose a letter to a fellow user (this includes the people at LBL) which (s)he will receive the next time (s)he logs in to the Monitor.

See the NETED module for details on creating the message.

Definitions

Message	Name of workspace containing the text. If message has not yet been composed the editor will be invoked.
Person	The addressee. His/her name has to appear on the user list. Use the 'USERLIST' module if you're not sure. If you want to have someone added to the list (with his/her knowledge) use the 'NEWUSER' module.

Prompts available

Message name
Addressee

For more information, see also

USERLIST
NEWUSER
PICKUP
NETED

PICKUP - RETRIEVE MAIL

Pickup [username]

Description

Your name should appear on the list of current Monitor users to receive mail. You will be told of the arrival of new mail when you login.
Once you've read your mail, you have the option to -

1. Store it away for future reference in your working library.
2. Throw it away.
3. Leave it where it is - if you choose to do this, you'll be told of old mail each time you login.

These options are prompted for by the message -

save? Y/N/X

where y stores the mail
n throws it away
x leaves it alone

If the username option is not supplied, your mail will be retrieved.

If the option is supplied, the mail stored in 'USERNAME's' mailbox will be displayed. However you are granted 'read only' permission (you can't store it away, or dispose of it).

Prompts available

Disposition of mail

For more information, see also

POST
USERLIST

USERLIST - SHOW LIST OF MONITOR USERS

Userlist

Description

Display the names of all the current Monitor users.

For more information, see also

POST

* - ENTER COMMENT TO SESSION RECORD

*

Description

As you use each of the modules and systems within the Monitor, it is quite possible that you will run into things that you don't understand, or have problems with. At that time, you may type a comment into the Monitor which will be read the next day by the programmers of each of the systems.
(Compliments are also acceptable.)

(Note - the space between the asterisk and message is needed)

If more immediate help is needed, contact Virginia Sventek at (FTS) 451-5216 or (415) 843-2740, ext 5216. Better yet, use the 'WHO' module to see if she's using the system, and send her a terminal message.

For more information, see also

WHO
POST
PICKUP
TERMINAL MESSAGE

WHO - LIST PORT NUMBERS AND USERS

Who

Description

Each terminal connected to the LBL computer center, both by telephone and direct line, have a port number.
This number is analogous to a telephone number. Using the 'WHO' module tells you the names of the people using the ports at any given time.

See the 'TERMINAL MESSAGE' module for details.

For more information, see also

TERMINAL MESSAGE

TERMINAL MESSAGE - SEND MESSAGE TO ANOTHER TERMINAL

@Port number

Description

You may send a message from your terminal to another. It should be no longer than 75 characters and take the following form -

@Port Number Message

Where @ is the script 'a' with a circle around it, somewhere on your keyboard.

For more information, see also

WHO
*

DELIVER - ROUTE COPY OF WORKSPACE

Deliver workspace addressee address return-address

Description

Make a copy of a workspace to be delivered to someone at LBL.

If address is 'UP' the workspace will be printed on the user printer in the LBL computer center I/O room. Otherwise, the address should be the floor number on which the addressee resides in the Building 50B complex at LBL.

Prompts available

Workspace
Addressee
Address
Return-address

LIST - LIST CONTENTS OF LIBRARY

List [library]

Description

List the contents of a specific library.

By not using the optional entry 'library', the contents of your current working library will be listed.

If you are not sure what your working library name is, use the 'SETLIB' module.

Definition

Library	A 1-10 character library name (default is current working library)

For more information, see also

SETLIB

SETLIB - CHANGE WORKING LIBRARY

Setlib [newlibrary]

Description

Ask that all your data be stored and retrieved from another library.

By not using the optional entry 'NEWLIBRARY', Monitor will type out the name of the current working library.

Definition

Newlibrary	1-10 character library name (default is the current working library)

Prompts available

If the new library you wish to access is in the same group as your current working library, you need not give 'SETLIB' any additional information. If it is not, you will be asked for the following information.

Group number
Group name
Owner

If any portion of that information is incorrect, you will be returned to the Monitor. At that point, use the 'SETLIB' module once more. Computer etiquette asks that you get permission before storing or retrieving data from someone else's library.

For more information, see also

NEWUSER

NETED - MAKE CHANGES TO WORKSPACE

Neted workspace

Description

NETED is the editor you will use to make corrections, additions, or deletions to a workspace.

The following is a list of NETED commands. The command letter must appear in column one, followed by a space and the edit specifications.

T	Places you at the top of the workspace
B	Places you at the bottom of the workspace
C /w/r/	Change wrong to right on the current line
C /w/r/ g	Change wrong to right at each occurence of wrong on this line
C /w/r/ g 10	Change wrong to right at each occurence of wrong on this and the next 9 lines
D	Delete the current line
D 10	Delete this and the next 9 lines
L something	Locate something. Finds the first occurence of something in the workspace
F something	Locate something if it is in column 1
P	Print the current line
P 10	Print this and the next 9 lines
N	Print the next line
N 10	Print this and the next 9 lines
N -10	Look 10 lines backward from the current line and print that line
DTOP	Delete all the workspace from the top to the current line. Does not delete the current line.
WTOP workspace	Write all the workspace from the top to (but not including) the current line onto a new workspace.

Neted has two modes of operation - input and edit, and will always announce which is in effect. When in input mode, everything you type is added to the workspace. To leave (or reennter) input mode, type a line consisting of a single period (.).
You can sign off neted in either of two ways -

1. Type quit to leave your text file like it was - i.e., any editing you may have done will be forgotten.
2. Type save to keep the editing you have done.

Note that you must be in edit mode to sign off. Otherwise the words quit or save simply become part of your workspace. Also note that save does not store your workspace. To do this return to the Monitor and use the 'STORE' module.

Prompts available

Workspace Name

For more information, see also

STORE
LOAD

LOAD - LOAD SUBSET ONTO WORKSPACE

Load workspace subset [library]

Description

A copy of the subset will be taken from your current working library and placed on the indicated workspace.

Changing the workspace will not have any effect on the subset stored in your working library. If you wish these changes to take place on the subset, use the 'STORE' module and replace the subset.

The optional entry 'library' is not needed if the subset you wish to load resides on your current working library. (Use the 'SETLIB' module to change working libraries if necessary.)

Definition

Library	1-10 character library name (default is current working library)

Prompts available

Workspace
Subset

For more information, see also

SETLIB
EDIT
STORE

STORE - STORE WORKSPACE IN LIBRARY

Store Workspace Subset name [Library] [Groupnumber] [Owner-name]

Description

A copy of any workspace can be stored on your working library. If a library has not been specified, use the 'SETLIB' module to specify one. Once the workspace is stored, it will remain on the working library until you store another copy in its place, or use the destroy module to remove it.

The optional entries 'library, groupnumber, owner-name' are not needed if you wish to store the workspace in your current working library. (Use the 'SETLIB' module to change working libraries if necessary.)

Definitions

Workspace	The workspace you wish to store
Subset name	The name by which you want the data to be known in your working library. The name is 1-7 characters long, and may contain numbers, just as long as they are not the first character in the name.
Library	1-10 character library name (default is the current working library)
Group-number	1-3 digit group identification number (default is that associated with your current working library)
Owner-name	The name of the user to whom this library belongs (default is that associated with your current working library)

Prompts available

Workspace
Subset name

For more information, see also

SETLIB

SHOW - DISPLAY WORKSPACE

Show Workspace

Description

Display the contents of a workspace on the terminal.

Note - typing the characters '>drop' will stop the printout and return you to the Monitor.

Definition

Workspace	7 character workspace name

Prompts available

Workspace name

For more information, see also

NETED

MOVE - CHANGE SUBSET NAME

Move oldsubset newsubset [library] [groupnumber] [owner]

Description

Renames a subset within the current working library.

The optional entries 'library, group-number, owner' are not needed if the subset you wish to move resides in your current working library. (Use 'SETLIB' module to change working libraries if necessary.)

Definitions

Oldsubset	Subset's current name.
Newsubset	Newsubset name. This must be no longer than 7 characters, and may include numbers just as long as they are not the first character in the name.
Library	1-10 character library name (Default is current working library)
Group-number	1-3 digit group identification number (Default is that associated with your current working library)
Owner-name	The name of the user to whom this library belongs (Default is that associated with your current working library)

Prompts available

Oldsubset name
Newsubset name

For more information, see also

SETLIB
LIST

DESTROY - DELETE SUBSET FROM LIBRARY

Destroy subset [library] [groupnumber] [owner]

Description

Remove the indicated subset from the current working library.

The optional entries 'library, groupnumber, owner' are not needed if the subset you wish to destroy resides in your current working library. (Use the 'SETLIB' module to change working libraries if necessary.)

Definitions

Subset	1-7 character name for subset you wish to destroy
Library	1-10 character library name (default is your current working library)
Group-number	1-3 digit group identification number (default is that associated with the current working library)
Owner-name	The name of the user to whom this library belongs (default is that associated with the current working library)

Prompts available

Subset name
Confirmation to destroy subset

For more information, see also

SETLIB
LIST

ERASE - DELETE CONTENTS OF WORKSPACE

Erase workspace

Description

Delete the contents of a workspace.
If the file contains information you wish to keep, use the store module to put a copy onto your working library, first.

Prompts available

Workspace name

For more information, see also

EDIT
STORE

FILES - LIST ALL FILES

Files

Description

The `FILES` module prints a list of all files and workspaces that are currently used by your job.

For more information, see also

NETED

BKY Users Mannual

TERMINAL - SPECIFY TERMINAL TYPE

Terminal

Description

Describe the terminal you're using to the Monitor. This is necessary for the CHART and Report Generation systems. If you do not use this module, you will be queried for the information by each of the systems that need it.

Prompts available

Terminal type	4012 and 4014 are Tektronix graphics terminals, GT40 is a DEC graphics terminal TI refers to all terminals which do not have graphics capability (cannot draw pictures) including alphanumeric CRT'S, such as Lear Siegler, Datapont, Omron, Hazeltine, etc.

For more information, see see also

CHART
Report Generator

SET REPORTLIB - NEW FORMAT LIBRARY

Set reportlib newlibrary

Description

Designate a new library from which the formats to be used with the Report Generator are to be taken.

For more information, see also

REPORT

CHART - GRAPHIC DISPLAY AND ANALYSIS SYSTEM

Chart

Description

This is a program for simple data analysis and report design for presentation or publication of tabular data.

The analysis may be directed and monitored at several points - data selection and calibration, binning, choice of data scaling, choice of graphic variable, and scaling of the graphic variable. Table rows and columns can be re-organized by operators such as ranking, sequencing and grouping, and re-computed from arithmetic combinations of existing rows and columns. Where the raw data represents different cases scored over the same atrributes, profile tables can be computed in a systematic fashion.

Interactive report design is supported by a variety of page layout and chart annotation directives, which can be used to embellish and adjust the default line, bar, and pie charts. Titles and labels can be entered and positioned, bars shaded and labeled with the data values, axes labeled, etc. There are format options for missing data and hierarchical labels.

The program can be used interactively as well as driven from a prepared script, and runs in a device independent graphics environment.

Prompts available

Terminal Type
Help is available within the CHART system

For more information, see also

REPORT
TERMINAL
CHART Users Guide
Workbook II - CHART

REPORT - REPORT GENERATION SYSTEM

Report

Description

'REPORT' allows you to move automatically between two normally independent systems - ESARS (which obtains gross sets of data (ESARS reports) for particular areas and time periods), and CHART (which allows the display and manipulation of tabular arrays and charts of data).

'REPORT' requires the pre-definition and storage of a report 'format' which specifies the specific data item of interest and a script of CHART commands to produce the display. 'REPORT' will retrieve the report for the report you want if it has been stored in the report library. To use 'REPORT' you will need to know how to use the 'GET' command in ESARS. To further manipulate reports after they have been displayed you must know how to use CHART.

Prompts available

Terminal Type
Report Format
Area and time period of ESARS report

For more information, see also

CHART
ESARS
TERMINAL

ESARS - ESARS RETRIEVAL SYSTEM

Esars

Description

The SEEDIS subsystem 'ESARS' is designed to allow non-computer trained people to retrieve data of interest immediately upon request. The data source is the Employment Security (ES) offices located throughout the nation. The data are collected and summarized by the Employment Security Automated Reporting System (ESARS) before being sent to LBL. Data are available from September 1973 to present for National and Regional totals, all states in the nation, and substate areas in Federal Region IX (Arizona, California, Hawaii, and Nevada).

Prompts available

Extensive help and prompting facilities exist within the ESARS system itself

For more information, see also

ESARS Users Guide
REPORT

FIFPAK - 1970 CENSUS 5TH COUNT RETRIEVAL

Fifpak

Description

FIFPAK retrieves data from the 1970 Census 5th 'count' and presents profiles of population, income and housing, and employment for zip codes which fall within Standard Metropolitan Statistical Areas (SMSAS). The 5th count provides unique housing and household equipment information unavailable on other census counts available at LBL.

Prompts available

Instructions on the use of FIFPAK exists within the FIFPAK system

For more information, see also

FIFPAK Users Guide

REAP - COUNTY LEVEL DATA RETRIEVAL

A Friendly Information System for Retrieval of County Level Data

Reap

Description

REAP is a computerized system for on line retrieval of a large amount of socio-economic-environmental-demographic information. REAP is a friendly, non-programmer-oriented system for browsing through data mostly maintained at the county level for the entire United States. REAP currently has 11 files of information and allows retrieval at the record and data element level for approximately 10,000 named data elements. Thus the data base comprises about 30 million data items, and of total size of 250-300 million characters.

The following files are accessible through REAP

City-County Data Book (1952-1972)
1949 U.S. Census of Agriculture
1959 U.S. Census of Agriculture
1964 U.S. Census of Agriculture
1969 and 1964 U.S. Census of Agriculture
1960 U.S. Census of Population
Series C OBERS Projections
Series E OBERS Projections
BEA Income Time Series (1929-1969)
Fourth Count Census Extract (1970)
County Energy Data Base

Prompts available

Help and prompting exist within REAP itself.

For more information, see also

REAP Users Guide

Each information file has a dictionary needed for the retrieval of information. These dictionaries can be obtained by contacting Virginia Sventek at LBL (FTS) 451-5216

CARTE - A THEMATIC MAPPING SYSTEM

Carte

Description

CARTE is a computer mapping program developed to display and analyze geographic data represented by points, lines, or polygons. Versions of the program have been in use since 1973. Its most well known products are the maps of the Urban Atlas series. The interactive version reduces the time and difficulty of designing a map.

CARTE should be used only on a graphics terminal (Tektronix 4010, 4012, 4013, 4014, 4015, or DEC GT40 or GT46).

Symbolism types	Points	A user-drawn symbol scaled by data value
	Lines	User-set expansion of line width
	Areas	Shading of area by character at centroid or textures made from parallel or cross-hatched lines.
Analysis	Arithmetic computations on data set variables	
Design features	Windowing of base map by rectangle or geocode into one or more insets; interactive title and legend specification; user drawn figures/symbols.	
Data input	Any geocoded data matching existing mapfiles.	
Map output	Graphics terminals, calcomp plotters, microfiche and 35mm film.	

Prompts available

Terminal type
Data base construction and storage
Map file generation and storage
Map production

For more information, see also

Computer Mapping Systems Workbook III
Mapedit Users Guide
Zing Users Guide
Dobedo Users Guide
BDMS - BKY Data Base Management System

LIBLIRI - INTERACTIVE RESOURCE INDEX

The LBL Interactive Resource Index

Libliri

Description

The LBL Interactive Resource Index (LIBLIRI) is a computer information system allowing the user at a remote terminal to obtain information about data, programs, and documents stored in the LBL computer system. Most of the information presently stored pertains to SEEDIS, however, the structure of LIBLIRI is sufficiently general to permit later inclusion of information about other LBL-stored computer files, files in computers other than LBL, and/or printed documents and other references.

The present version of LBLIRI is in BDMS. Using the BDMS control language, the user may query the system to find and list all entries pertaining to a particular subject, all entries having a particular author, or all entries, originating from a particular institution. The entries themselves contain a variety of information, including abstracts, storage locations and format descriptions of computer files, addresses and phone numbers of individuals, related documentation, and (in some cases) detailed instructions for retrieving data at a computer terminal.

APPENDIX A

A. EXAMPLE OF A SEEDIS MONITOR JOB

The following is an example of an interaction with the SEEDIS Monitor. A few comments here may serve to make it clearer.

1. Lines beginning with an asterisk are comments entered by the user to the LBL programmers (see module '*'). In this example, however, they are comments from the programmers to the reader.

2. Dictionaries for the 'REAP' module may be obtained by telephoning, 'POSTING' a message or sending a 'terminal message' to Virginia Sventek at LBL.

3. On-line consultation (from a real person) is available. See the 'TERMINAL MESSAGE' module. The lines beginning with an @ sign are question answer sessions between the consultant and the user. Note - the 'PORT NUMBER' shown here is fictitious. Watch the 'NEWS' in Monitor for the arrival of the permanent (real) number.

4. Those lines typed in boldface were entered by the user.

5. The graphs produced by CHART in this example were done on a non-graphics terminal. See Appendix B for examples of CHART produced on a graphics terminal.

6. All capitalization within this example are irrelevant. The Monitor makes no distinction between upper and lower case entries.

```
>LOG,SEEDIS,12,1000.123456,SVENTEK
LOGIN CP-25 TTY-070    10.34.00*`BKY68A*B*05/20/77
SEEDI00 LOGGED IN.  SESAME 3.2
OK - SESAME

START SEEDIS

In order to use the SEEDIS Monitor you must have a valid
user login) name that is known by the system.  If you do
not have one and wish to obtain one please contact
     Virginia Sventek, LBL, Berkeley, (415-843-2740 x 5216)
or   Peter Kreps, LBL, Berkeley, (415-843-2740 x5830)

The user name 'GUEST' may be used as a temporary name to
try out the Monitor.

Please type your user name (up to 10 characters, no blanks or
punctuation)

Name- Sventek
Password- xxx

Verifying login...
```

A. EXAMPLE OF A SEEDIS MONITOR JOB

```
Welcome to the SEEDIS Monitor -- 19 MAY 77 11.46.29. PST
Version 2.4
Last update 5/16/77
See 'NEWS' for details of recent changes affecting REAP, SETLIB and
NEWUSER.

Please direct any inquiries, problems, comments, or criticism
concerning the SEEDIS Monitor by 'POST' to user 'KREPS'.

Working library = SVENTEK

DOIT> NEWS

Type '>DROP' at the beginning of a line when you have
seen as much as you want...

      S E E D I S   M O N I T O R   N E W S

Current version is 2.4 -- Born 3/31/77

--> 5/16/77
    LIBLIRI -- the LBL Interactive Resources Index -- is now
    accessible through the Monitor command 'LBLIRI'.  Explanatory text
    is provided.  Contact Deane Merrill (LBL x5063) for
    further information.

--> 5/02/77
    All prompts for 'group id' have been changed to 'group nummer' by
    popular request.  (Affects NEWUSER & SETLIB).

>DROP

DOIT> LBLIRI

Welcome to LBLIRI.
When you get the response   >ENTER COMMAND   you may enter
   one of the following
*******************************************************************
Important note - the character typed here as ? must be entered
as a semicolon, and not as a question mark, at the terminal.
*******************************************************************
         Expand AUI=a?        First 10 institutions
         Expand AUP=a?        First 10 authors
         Expand DES=a?        First 10 descriptors
         Expand TAG=a?        First 10 unique tags
         Expand REF=a?        First 10 tag references
(The commands   Expand DES=a?
                Expand DES=b?
                Expand DES=(anything)?
will be the most useful if you are starting with no previous experience.)
   Expand DES=BARB?  (20 descriptors around DES=BARB)
   Find DES=BARB12   (all records having DES=BARB12)
   Find,1            (note no semicolon) (first BDMS record)
   Find TAB=LBL.info.general?  (a record having general LBL )
   information)
```

```
After a successful find command, you may enter one of the following.
   List          (List all records found)
   List,1        (List first record found)
   List,2        (List second record found)

Now go ahead when you get the responce   >ENTER COMMAND
Good luck

   >ENTER COMMAND

EXPAND DES=A;

ABSTRACTS                          5
ACCELERATORS                       1
ACCOUNTING                         4
ACCOUNTING UNITS                   1
ACOER                              2
ADDRESSES                          1
ADV RES PROJECTS AGENCY            1
AEC/RECON                          1
AERIAL PHOTOGRAPHS                 1

 >ENTER COMMAND

EXPAND AUI=LBL;

EPA                                        1
EPA.OAP                                    2
EPA.OAQPS                                  9
EPA.OAWM                                   3
EPA.OFFICE OF ADMIN.DATA SYSTEMS DIV       1
EPA.SASD                                   1
ERDA                                       1
ERDA.DBER.ANALYSIS AND ASSESS.PROG         1
GCA CORPORATION                            1
LASL                                       1
LBL                                        1
LBL.COMPUTER CENTER                        8
LBL.COMP CENTER.SYSTEMS PROG GRP           4
LBL.COMP CENTER.USER SERV GRP             55
LBL.CSAM DEPT                             92
LBL.CSAM DEPT.GRAPHICS RESRCH GROUP        5
LBL.E+E DIV                                2
LBL.E+E DIV.REG STUD GRP                   3
LBL.INFORMATION RESEARCH GROUP             1

 >ENTER COMMAND

EXPAND DES=CANCER;

BROOKHAVEN NATIONAL LABORATORY                    2
BUFFERS                                           3
BUGS                                              1
BUREAU OF ECONOMIC ANALYSIS                       1
BUREAA OF LABOR STATISTICS                        1
```

```
BUREAU OF LABOR STATISTICS (1972)                    1
BUREAU OF MINES                                      1
CACHE SYSTEMS                                        1
CACHING SYSTEMS                                      2
CAL-COMP                                             2
CANCER                                               6
CANCER TYPE, BREAKDOWN BY                            1
CAPITAL INVESTMENT                                   1
CARD SEQUENCES                                       1
CARETS                                               1
CARRIAGE CONTROL                                     1
CARTE                                                1
CASHEW                                               1
CASHEW TERMINOLOGY                                   1

 >ENTER COMMAND

Return

Now returning to the Monitor

DOIT> FIFPAK

--Type state no. or name, no. Of zip codes, first zip code number,
  last zip code number, and table names or table number/
e.g.  6,1,94618,94618,7/ For further assistance type help

6,1,94618,94618,1/

                    ZIP CODE AREA MANPOWER PROFILE  1/        19 MAY 77
                              POPULATION TABLE
                              CALIFORNIA
ZIP CODE 94618, POST OFFICE ROCKRIDGE            COUNTY OF ALAMEDA


TOTAL POPULATION      16,318  POPULATION 25+ BY YEARS SCHOOL     10,788

                                PERCENTAGE - NO SCHOOL                .5
MEDIAN YEARS OF SCHOOL BY AGE                ELEMENTARY ONLY       12.8
   25-44          15.6  YRS.                SOME HIGH SCHOOL      10.1
   45-54          13.2                      HIGH SCHOOL GRAD      27.2
   55+            12.4                      COLLEGE GRADUATE      31.0

RACIAL
BREAKDOWN        NO.      PCT.        MOTHER TONGUE      NO.      PCT.

WHITE          14,616     89.6        ENGLISH          11,570     70.9
BLACK           1,182      7.2        GERMAN              719      4.4
AM INDIAN           4       .0        POLISH               73       .4
JAPANESE          144       .9        YIDDISH             120       .7
CHINESE           230      1.4        ITALIAN           1,318      8.1
FILIPINO           66       .4        SPANISH             334      2.0
OTHER              76       .5        ALL OTHERS        1,633     10.0
                                      NOT REPORTED        551      3.4
```

TOTAL	16,318	100.0				
			TOTAL		16,318	100.0
ETHNIC GROUP						
SP AMER 2/	756	4.6				

BREAKDOWN	NO.	PCT.	NO. MALE	PCT.	NO.	PCT.
UNDER 5	897	5.5	508	3.1	389	2.4
5-9	979	6.0	457	2.8	522	3.2
10-14	986	6.0	522	3.2	464	2.8
15-19	1,062	6.5	434	2.7	628	3.8
20-24	1,607	9.8	829	5.1	778	4.8
25-34	2,116	13.0	1,085	6.6	1,031	6.3
35-59	4,659	28.5	2,171	13.3	2,488	15.2
60+	4,014	24.6	1,565	9.6	2,449	15.0
TOTAL	16,320	100.0	7,571	46.4	8,749	53.6
MEDIAN AGE (YRS)	38.1		34.5		41.7	

PERCENT MALES (14+ YEARS) NOW MARRIED	60.7
PERCENT FEMALES (14+ YEARS) NOW MARRIED	51.2
AVERAGE NO. OF CHILDREN (UNDER 18) PER FAMILY	.8

	NO.	PCT.
TOTAL - FAMILIES	4,305	100.0
ON PUBLIC ASSISTANCE	218	5.1
BELOW POVERTY LEVEL	217	5.0
FEMALE HEAD, BELOW POVERTY LEVEL	88	2.0

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

--TYPE STATE NO. OR NAME, NO. OF ZIP CODES, FIRST ZIP CODE NUMBER, LAST ZIP CODE NUMBER, AND TABLE NAMES OR TABLE NUMBER/
E.G. 6,1,94618,94618,7/ FOR FURTHER ASSISTANCE TYPE HELP

99/

@123 How do I start the reap module in Monitor?
123. By typing 'REAP' when the Monitor responds with the 'DOIT>' prompt

```
DOIT> REAP
WELCOME TO THE LBL
 - - S - E - E - D - -
SOCIO-ECONOMIC-ENVIRONMENTAL-DEMOGRAPHIC
INFORMATION SYSTEM RETRIEVAL PROGRAM
```

A. EXAMPLE OF A SEEDIS MONITOR JOB

```
ENTER FILE NAME
*
*  YOU MAY TYPE ? (QUESTION MARK) TO GET A LIST OF COMMANDS
*
?
LIST OF AVAILABLE COMMANDS
LIST
HELP
DISCARD
QUIT
STOP
MONITOR
HELP
  LIST OF AVAILABLE FILES

LBL-NAME   QUICK QWERY NAME    DESCRIPTION

CCDBMRG    CCDB.MERGE          CITY-COUNTY DATA BOOK (1952-1972)
CNAGR49    49.AGR.SUB          1949 U. S. CENSUS OF AGRICULTURE
CNAGR59    59.AGR.SUB          1959 U. S. CENSUS OF AGRICULTURE
CNAGR64    64.AGR.SUB          1964 U. S. CENSUS OF AGRICULTURE
CNAGR69    69.AG.CENCOM        1969+1964 U. S. CENSUS OF AGRICULTURE
CTY60PC    COUNTY.60.PC        1960 CENSUS OF POPULATION
OBERS      OBERS               SERIES C OBERS PROJECTIONS 1970
OBERSE     OBERS-E             SERIES E OBERS PROJECTIONS 1972
INCOME     INCOME              BEA INCOME TIME SERIES 1929-1969
ENERGY     ENERGY              COUNTY ENERGY DATA BASE
CNS4CT     CENSUS.4CT          FOURTH COUNT CENSUS (1970)
ENTER FILE NAME
CCDBMRG
 FILE=CCDBMRG-CCDB.MERGE       CITY-COUNTY DATA BOOK (1952-1972)
DEFINE STUDY AREA
NEW OR OLD?
*
* HELP IS ALWAYS (OR ALMOST ALWAYS) THERE
*
HELP
.
.          HELP FOR - DEFINE STUDY AREA
.                     NEW OR OLD?
.
   YOU SHOULD ENTER NEW IF YOU ARE SEEKING DATA
FROM A NEW (AS YET UNDEFINED) STUDY AREA, AND OLD IF YOU HAVE
ALREADY DEFINED A STUDY AREA AND WISH TO CONTINUE TO RETRIEVE
DATA FROM THIS AREA.  THE PROGRAM WILL NOW ASK YOU TO

           ENTER STUDY AREA NAME

FOR WHICH YOU SHOULD ENTER A 9 OR FEWER CHARACTER NAME FOR
YOUR STUDY AREA.
DEFINE STUDY AREA
NEW OR OLD?
NEW
ENTER STUDY AREA NAME
REAPTEST
```

```
ENTER 5 DIGIT FIPS STATE-COUNTY CODES
HELP
.
.        HELP FOR -ENTER AREA CODES
.
    FOR THIS FILE (CCDBMRG), A USER STUDY AREA IS COMPOSED
 OF ONE OR MORE COUNTIES.  EACH COUNTY IS SPECIFIED BY ITS 5
 DIGIT FIPS (FEDERAL INFORMATION PROCESSING STANDARD) STATE
 AND COUNTY CODE.  THUS A SAMPLE INPUT LINE

 06001,06013,20177,55063

 WILL RETRIEVE

    ALAMEDA COUNTY, CALIFORNIA
    CONTRA COSTA COUNTY, CALIFORNIA
    SHAWNEE COUNTY, KANSAS
    LA CROSSE COUNTY, WISCONSIN

    THE INPUT PROCESS IS HALTED BY TYPING A SEMICOLON OR A
 BLANK LINE.  TO OBTAIN A LIST OF AREA CODES ALREADY ACCEPTED
 BY REAP, TYPE _LIST
.
.
ENTER 5 DIGIT FIPS STATE-COUNTY CODES
*
*  RANGES OF AREA CODES ARE ALLOWED WITH A DASH BETWEEN THEM,
*  AS IN THE FOLLOWING
*
06001-06013
ENTER 5 DIGIT FIPS STATE-COUNTY CODES
*
*  THE  LIST  COMMAND WILL LIST ALL CURRENT INPUT
*
LIST
  LIST OF AREA CODES IN STUDY AREA

          AREA CODES

          06001
          06003
          06005
          06007
          06009
          06011
          06013
ENTER 5 DIGIT FIPS STATE-COUNTY CODES
*
* A SEMICOLON ENDS THE INPUT PROCESS
*
06023;
DISPLAY?
HELP
.
.        HELP FOR CCDBMRG DISPLAY
```

```
.
   TO DISPLAY DATA WITH REAP, ENTER THE DATA NAMES FOUND
 IN YOUR CITY-COUNTY DATA BOOK DICTIONARY.
   THESE NAMES (12 CHARACTERS OR LESS) SHOULD BE SEPARATED
 BY COMMAS.  BLANKS ARE IGNORED.  A SEMICOLON OR A BLANK LINE
 ENDS THE INPUT PROCESS.
   A SAMPLE INPUT LINE FOLLOWS -

 STATE.ABBR,COUNTY.NAME,  52.CCDB048,72.CCDB077  ;

 YOU MAY LIST THE NAMES ALREADY ACCEPTED BY REAP BY
 TYPING _LIST
.
.       END OF HELP
.
DISPLAY?
STATE.ABBR,COUNTY.NAME,52.CCDB048,52.CCDB049,62.CCDB051,72.CCDB077;
RETRIEVING DATA FROM MSS, PLEASE BE PATIENT
.
.
.
```

STATE ABBR	COUNTY NAME	1940 DWELLING UNITS	1950 DWELLING UNITS	1960 HOUSING UNITS	1970 HOUSING UNITS
CALIF	ALAMEDA	173031	247145	310312	379723
CALIF	ALPINE	159	304	168	408
CALIF	AMADOR	2968	3350	3988	5160
CALIF	BUTTE	14488	23309	31494	37652
CALIF	CALAVERAS	3159	4014	4677	7033
CALIF	COLUSA	3125	3899	4385	4646
CALIF	CONTRA COSTA	31297	90641	124279	178329
CALIF	HUMBOLDT	15386	22975	34691	35107
TOTALS		243613	395637	513994	648058

```
MORE QUERIES ON SAME STUDY AREA?
NO
ENTER FILE NAME
*
* WE CAN NOW JUMP TO ANOTHER FILE AND RETRIEVE DATA FOR THE SAME
* STUDY AREA
*
CNAGR69
 FILE=CNAGR69-69.AG.CENCOM     1969+1964 U. S. CENSUS OF AGRICULTURE
DEFINE STUDY AREA
NEW OR OLD?
OLD
ENTER STUDY AREA NAME
REAPTEST
06001
06003
AREA CODE NOT FOUND
06005
```

```
06007
06009
06011
06013
06023
DISPLAY?
HELP
.
.        HELP FOR CNAGR69 DISPLAY
.
    TO DISPLAY DATA WITH REAP, ENTER THE DATA NAMES FOUND
 IN YOUR 1969 CENSUS OF AGRICULTURE DICTIONARY.
    THESE NAMES (12 CHARACTERS OR LESS) SHOULD BE SEPARATED
 BY COMMAS.  BLANKS ARE IGNORED.  A SEMICOLON OR A BLANK LINE
 ENDS THE INPUT PROCESS.
    A SAMPLE INPUT LINE FOLLOWS -

 STATE.ABBR,COUNTY.NAME,  64.AGT01010,69.AGT01010  ;

 YOU MAY LIST THE NAMES ALREADY ACCEPTED BY REAP BY
 TYPING _LIST
.
.        END OF HELP
.
DISPLAY?
STATE.ABBR,COUNTY.NAME,64.AGT01001,69.AGT01001
DISPLAY?
*
* THE PROGRAM ASKS FOR DISPLAY NAMES UNTIL A SEMICOLON IS SENT
*
64.AGT01003,69.AGT01003;
RETRIEVING DATA FROM MSS, PLEASE BE PATIENT
.
.
.
```

STATE ABBR	COUNTY NAME	1964 NUMBER OF FARMS	1969 NUMBER OF FARMS
CALIF	ALAMEDA	908	762
CALIF	AMADOR	229	206
CALIF	BUTTE	1933	1844
CALIF	CALAVERAS	346	312
CALIF	COLUSA	601	632
CALIF	CONTRA COSTA	1340	1022
CALIF	HUMBOLDT	1099	910
TOTALS		6456	5688

1964 NUMBER OF ACRES IN FARMS	1969 NUMBER OF ACRES IN FARMS
309845	291055
207085	257821

```
    680325        551254
    362645        245651
    532155        484331
    303395        315493
    787165        790220

*TOTALS*----------------------

   3182615       2935825

MORE QUERIES ON SAME STUDY AREA?
Monitor
Entering Monitor, please be patient

DOIT> CHART

WOULD YOU LIKE A BRIEF EXPLANATION? NO

READY
?
CHART RECOGNIZES THE FOLLOWING WORDS AT THIS POINT
TABLE      REPLACE    RAW        BAR        CHANGE     WIDTH      PLOT
GROUP      STOP       LOG        LINE       WRITE      SHADE      SCRIPT
SLOPE      BIN        HARDCOPY   RANK       INSERT     TITLE      LABELS
SCALE      WINDOW     BACKUP     TEXTURE    MARK       VALUE      GRID
TRANSPOSE  PAGE       SESAME     SWITCH     RESTORE    SEQUENCE   MASK
REFERENCE  PROFILE    DECLARE    TOTAL      PS         OVER       ERASE
PIE        MOSAIC     TILE       GRADE      NOW        FORMAT
BAD DIRECTIVE - IGNORED
READY
TABLE
TYPE COLUMN LABELS, ONE PER LINE.  TYPE BLANK LINE TO EXIT.
SPRING
SUMMER
WINTER
FALL

TYPE LABEL ON ONE LINE, THEN  4 DATA VALUES ON NEXT LINES.
TYPE A BLANK LINE TO EXIT.
ROW  1
RAINY
51         2          50         70
ROW  2
CLOUDY
10         38         30         11
ROW  3
SUNNY
30         51         11         10
ROW  4

READY
PLOT REPORT

                    SPRING          SUMMER          WINTER          FALL
```

RAINY	51.0	2.0	50.0	70.0
CLOUDY	10.0	38.0	30.0	11.0
SUNNY	30.0	51.0	11.0	10.0

A. EXAMPLE OF A SEEDIS MONITOR JOB

```
READY

PLOT VERTICAL

                 SPRING          SUMMER          WINTER          FALL

RAINY                                                            I--- 70.0------
                                                                 I              I
                                                                 I              I
                  51.0                                           I              I
            I--------------                  I--- 50.0------     I              I
            I             I                  I             I     I              I
            I             I                  I             I     I              I
            I             I                  I             I     I              I
            I             I                  I             I     I              I
            I             I                  I             I     I              I
            I             I                  I             I     I              I
            I             I                  I             I     I              I
            I--------------I  I---   2.0------  I-------------I  I-------------I
CLOUDY

                            I--- 38.0------
                            I              I      30.0
                            I              I  I-------------
                            I              I  I             I
                            I              I  I             I
            I--- 10.0------ I              I  I             I  I--- 11.0------
            I             I I              I  I             I  I             I
SUNNY       I-------------I I-------------I  I-------------I  I-------------I

                            I--- 51.0------
                            I              I
                            I              I
                            I              I
            I--- 30.0------ I              I
            I             I I              I
            I             I I              I
            I             I I              I  I--- 11.0------  I--- 10.0------
            I             I I              I  I             I  I             I
            I-------------I I-------------I  I-------------I  I-------------I
```

A. EXAMPLE OF A SEEDIS MONITOR JOB

```
READY
BAR

                 SPRING        SUMMER        WINTER         FALL
            ----------------------------------------------------------80
RAINY       -                                        I---- 70---------
            ----------------------------------------I-------------I--60
            -I---- 51-----              I---- 50------I             I--
            -I-----------I--------------I------------II------------I--40
            -I           I              I            II             I--
            -I-----------I--------------I------------II------------I--20
            -I           I              I            II             I--
            -I-----------I-I---  2------I------------II------------I-- 0


            ----------------------------------------------------------80
CLOUDY      -                                                       --
            ----------------------------------------------------------60
            -                                                       --
            ---------------I--- 38-----------------------------------40
            -              I            II---- 30------                --
            ---------------I-----------II------------I----------------20
            -I---- 10----- I            II            II---- 11--------
            -I-----------I-I-----------II------------II------------I-- 0


            ----------------------------------------------------------80
SUNNY       -                                                       --
            ----------------------------------------------------------60
            -              I--- 51------                            --
            ---------------I-----------I-------------------------------40
            -I---- 30----- I            I                            --
            -I-----------I-I-----------I-------------------------------20
            -I           I I            II---- 11------I---- 10--------
            -I-----------I-I-----------II------------II------------I-- 0
READY
WRITE SCRIPT

SCRIPT1 WRITTEN
READY

RETURN
RETURNING TO MONITOR, PLEASE BE PATIENT

DOIT> ESARS
```

A. EXAMPLE OF A SEEDIS MONITOR JOB

```
                    ESARS RETRIEVAL (FIRST RUN)
              RECENT ESARS RETRIEVAL NEWS
(TUE10MAY) **CAJAN77 HAS BEEN REMOVED BECAUSE OF INACCURACIES IN THE LAST
  REVISED TAPE SENT TO LBL...ANOTHER TAPE HAS BEEN REQUESTED**
(THU05MAY) **ALL RGN IX STATEWIDE REPORTS FOR MAR77 NOW AVAILABLE**


LBL ESARS RETRIEVAL,  VERSION 8 B  (EFFECTIVE 06MAY77)`


INTRODUCTION?
YES

YOU MAY ENTER THE CHARACTER ? FOR A LIST OF COMMANDS
OR 'WHAT IS LATEST VERSION?' FOR THE CHANGES
(ALL YOUR LINES SHOULD END BY DEPRESSING THE 'RETURN' KEY)
ESARS IS AT YOUR COMMAND.`
?
 --  COMMANDS CURRENTLY AVAILABLE --
HELP      (VIA SEVERAL PAGES OF INTRODUCTION WITH EXAMPLES)
WHAT      (IS GENERAL INFORMATION AVAILABLE AT TERMINAL?)
SCAN      (THE LINES OF A LIST FOR PARTICULAR CHARACTERS)
RESCAN    (THE RESULTS OF THE LAST SCAN OR RESCAN COMMAND)
GET       (AN ESARS SUMMARY REPORT, BUT DO NOT LIST IT)
PRINT     (A PORTION OF THE SUMMARY REPORT LAST RETRIEVED)
*         (ACCEPT THIS LINE AS A COMMENT TO BE SEEN LATER)
?         (A LIST OF CURRENT COMMANDS)
RETURN    (LEAVE 'ESARS' AND RETURN TO LAST MODULE)
STOP      ('ESARS' AND DISCONNECT MY TERMINAL)
-- END OF COMMAND LIST --
ESARS IS AT YOUR COMMAND.`
HELP
ENTER THE COMMAND FOR SPECIFIC HELP FOR THAT COMMAND, OR
ENTER 'WHAT IS LATEST VERSION?' FOR THE CANGERS, OR
WOULD YOU LIKE A GENERAL OVERVIEW(2 PAGES) AT YOU TERMINAL?
WHAT
SPECIFICATIONS UNDERSTANDABLE BY THE WHAT IS/ARE COMMANDS ARE
    REPORTS BY AREA
    REPORTS BY DATE
    STUB CATALOG
    HEADER CATALOG
    TABLE NAMES
    LBL CODES
    FREQ
    TIMPER
    LATEST VERSION
    AREA TYPES
    AREA CODES
    STATES
    DATES
    DOT CODES
YOU MAY NOW ENTER ONE OF THESE SPECIFICATIONS
AREA TYPES
'AREA TYPES' NOW AVAILABLE FOR RETREIVAL ARE
'1' OR 'N' FOR NATIONAL TOTAL
```

```
'2' OR 'R' FOR REGIONAL TOTAL
'3' OR 'S' FOR STATEWIDE
AND THOSE AVAILABLE IN THE FUTURE ARE
'4' OR 'SMSA' FOR SMSA
'5' OR 'C' FOR COUNTY OF RESIDENCE
'6' OR 'AD' FOR ADMINISTRATIVE DISTRICT
'7' OR 'L' FOR LOCAL OFFICE
'8' OR 'AR' FOR AREA OF STATE
'9' OR 'W' FOR WIN PROJECT
ESARS IS AT YOUR COMMAND.`
SCAN
DO YOU WANT 'STUBS', 'HEADERS', 'TABLES' OR 'DOTS'
STUBS
ENTER SOME CHARACTERS TO BE SCANNED FOR
CETA
WILL SCAN FOR THE FOLLOWING CHARACTERS...
CETA
HERE COME 32 LINES
  73) CETA/PSE *
  74) CETA     * NONGRANTEE        *
  75) CETA     * PRIMARY AGENT     *
  76) CETA     * SUBGRANTEE        * COMPLETELY FINANCED        *
  77) CETA     * SUBGRANTEE        *
  78) CETA     *
 119) ENROLLED IN TRAINING         * CETA    *
 131) ENROLLMENTS IN TRAINING      * CETA    *
 145) ENROLLMENT IN TRAINING       * CETA INSTITUTIONAL*
 146) ENROLLMENT IN TRAINING       * CETA    *
 404) OPENINGS FILLED OR CANCELLED * FILLED  * OTHER AGENCIES    * CETA
 414) OPENINGS RECEIVED FISCAL YEAR* OTHER AGENCIES    * CETA    *
 442) PLACED   * AGRICULTURAL      * CETA/OJT*
 443) PLACED   * AGRICULTURAL      * CETA/PSE*
 452) PLACED   * CETA/OJT*
 453) PLACED   * CETA/PSE*
 454) PLACED   * CETA WORK EXPERIENCE        * WIN/OJT *
 455) PLACED   * CETA WORK EXPERIENCE        * WIN/PSE *
 456) PLACED   * CETA WORK EXPERIENCE        *
 457) PLACED   * CETA WORK EXP     *
 506) PLACEMENTS         * REFERRED TO SUPPOR- TIVE SERVICE      * CETA
 513) PLACEMENTS         * SPECIAL PROGRAMS  * CETA/PSE*
 534) PLACEMENTS         * SUBSIDIZED        * CETA/OJT*
 535) PLACEMENTS         * SUBSIDIZED        * CETA/PSE*
 536) PLACEMENTS         * SUBSIDIZED        * CETA WORK EXPERIENCE
 581) REFERRALS TO CETA  *
 583) REFERRALS TO TRAINING        * CETA    *
 594) REFERRAL TO CETA   *
 598) REFERRED TO CETA   *
 633) SUBSIDIZED PLACEMENTS        * CETA/OJT*
 634) SUBSIDIZED PLACEMENTS        * CETA/PSE*
 635) SUBSIDIZED PLACEMENTS        * CETA WORK EXP     *
END OF SCAN...
ESARS IS AT YOUR COMMAND.`
RESCAN
ENTER SOME CHARACTERS TO BE RESCANNED FOR
TRAIN
```

```
WILL RESCAN FOR THE FOLLOWING CHARACTERS...
TRAIN
 119) ENROLLED IN TRAINING          * CETA     *
 131) ENROLLMENTS IN TRAINING       * CETA     *
 145) ENROLLMENT IN TRAINING        * CETA INSTITUTIONAL*
 146) ENROLLMENT IN TRAINING        * CETA     *
 583) REFERRALS TO TRAINING         * CETA     *
END OF SCAN...
ESARS IS AT YOUR COMMAND.`
GET
ENTER AREA TYPE WANTED, (OR 'WHAT ARE AREA TYPES?')
STATE
ENTER STATE NAME WANTED.
CALIF
ENTER MONTH WANTED
DEC
ENTER YEAR WANTED
76
WILL ATTEMPT RETRIEVAL OF THE REPORT FOR DEC, 76, CA, STATEWIDE...
(22.47.47.)
   THE REPORT  HAS BEEN RETRIEVED.
ESARS IS AT YOUR COMMAND.`
PRINT
DO YOU WANT 'STUB', 'HEADER', 'TABLE' OR 'LINE'
STUBS
ENTER LBL CODE(S) FOR STUB(S) WANTED
 (OR 'WHAT ARE LBL CODES?')
119
STUB 119 ONLY EXISTS IN REPORTS FROM SEP74 THROUGH JUN75
ENTER LBL CODE(S) FOR STUB(S) WANTED
 (OR 'WHAT ARE LBL CODES?')
131,145,146
STUB 131 ONLY EXISTS IN REPORTS FROM SEP74 THROUGH JUN75
STUB 145 IS IN THE FOLLOWING TABLE(S) FOR THE DATE OF THIS REPORT...
 11 - SUMMARY OF SERVICES
 91 - YEAR-TO-DATE SUMMARY OF SERVICE TO INDIVIDUALS
A91 -      (RURAL APPLICANTS)
B91 - YEAR-TO-DATE SUMMARY OF SERVICE TO INDIVIDUALS
...BUT THE FOLLOWING TABLE(S) DON'T EXIST FOR THE AREA OF THIS REPORT
 91
A91
YOU MAY NOW ENTER ANY TABLE(S) WANTED WITH STUB 145
(ENTER 'NEXT' IF YOU WANT TO GO ON TO THE NEXT STUB)
(ENTER 'ALL' IF YOU WANT ALL THE TBLS FOR THIS STUB)
11


(REPORT ID = DEC 1976, CA, STATEWIDE)

TABLE  11
SUMMARY OF SERVICES
-----------------------------------------------
 ITEM .          ITEM          .      TOTAL
  NO  .                        .---------------
.                        .TRANS- .INDI-
```

A. EXAMPLE OF A SEEDIS MONITOR JOB

```
.                          .ACTIONS.VIDUALS
-----------------------------------------------
   A  .            B            .   C   .   D
 11075 ENROLLMENT IN
 TRAINING
  CETA INSTITUTIONAL        498      492

(FREQ = 1, TIMPER = 7)


YOU MAY NOW ENTER ANY TABLE(S) WANTED WITH STUB 145
(ENTER 'NEXT' IF YOU WANT TO GO ON TO THE NEXT STUB)
(ENTER 'ALL' IF YOU WANT ALL THE TBLS FOR THIS STUB)


                                  -- USER COMMENT --

* USER COMMENTS MAY BE ENTERED AT ANY TIME.
* A NEW COMMAND MAY BE ENTERED AT ANY TIME.
GET STATE CA MAR 77
WILL ATTEMPT RETRIEVAL OF THE REPORT FOR MAR, 77, CA, STATEWIDE...
(22.52.19.)
   THE REPORT  HAS BEEN RETRIEVED.
ESARS IS AT YOUR COMMAND.`
PRINT TABLE 11(70-75)


(REPORT ID = MAR 1977, CA, STATEWIDE)

TABLE  11
SUMMARY OF SERVICES
-----------------------------------------------
 ITEM .         ITEM          .      TOTAL
  NO  .                       .---------------
.                        .TRANS- .INDI-
.                        .ACTIONS.VIDUALS
-----------------------------------------------
   A  .            B            .   C   .   D
 11070 ENROLLMENT IN
 11070.     TRAINING..........    8509     8117
 11075.  CETA INSTITUTIONAL .     1120     1085

(FREQ = 1, TIMPER = 7)


ENTER TABLE(S) FOLLOWED BY LINE(S) WANTED
RETURN
RETURNING TO PREVIOUS MODULE..
(MAY LATER COME BACK TO 'ESARS' AS IF YOU HAD NEVER LEFT
 BY ENTERING THE LINE 'ESARS'.)

DOIT> STORE
Enter workspace name (7 characters or fewer) script
Please type file (subset) name (7 characters or fewer) weather
```

```
Storing workspace 'SCRIPT' in subset 'WEATHER' library 'SVENTEK'
Workspace 'SCRIPT' now stored

DOIT> STOP
This will end your job if you confirm.
Are you really sure (yes/no) yes
SEEDIS Monitor --signoff -- 20 MAY 77 12.23.16
You may now turn off your terminal.  Bye...
```

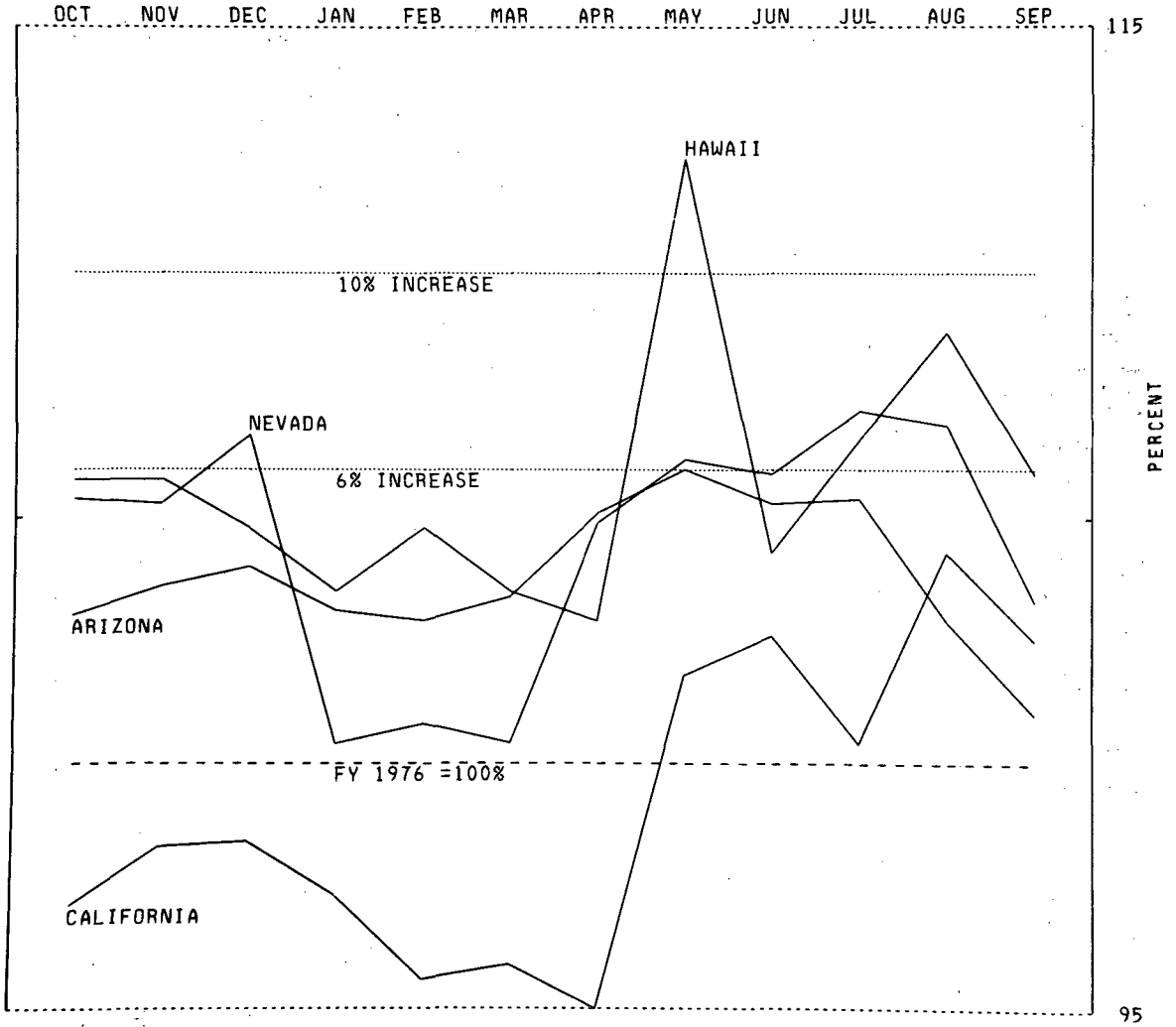
APPENDIX B

B. EXAMPLES OF ADDITIONAL SEEDIS MODULE OUTPUT

This appendix contains output generated by two SEEDIS modules, namely CARTE and CHART, which normally operate on graphics terminals (Tektronix 4010, 4012, 4013, 4014, 4015, or DEC GT40 or GT46) to produce high quality, publication ready products.

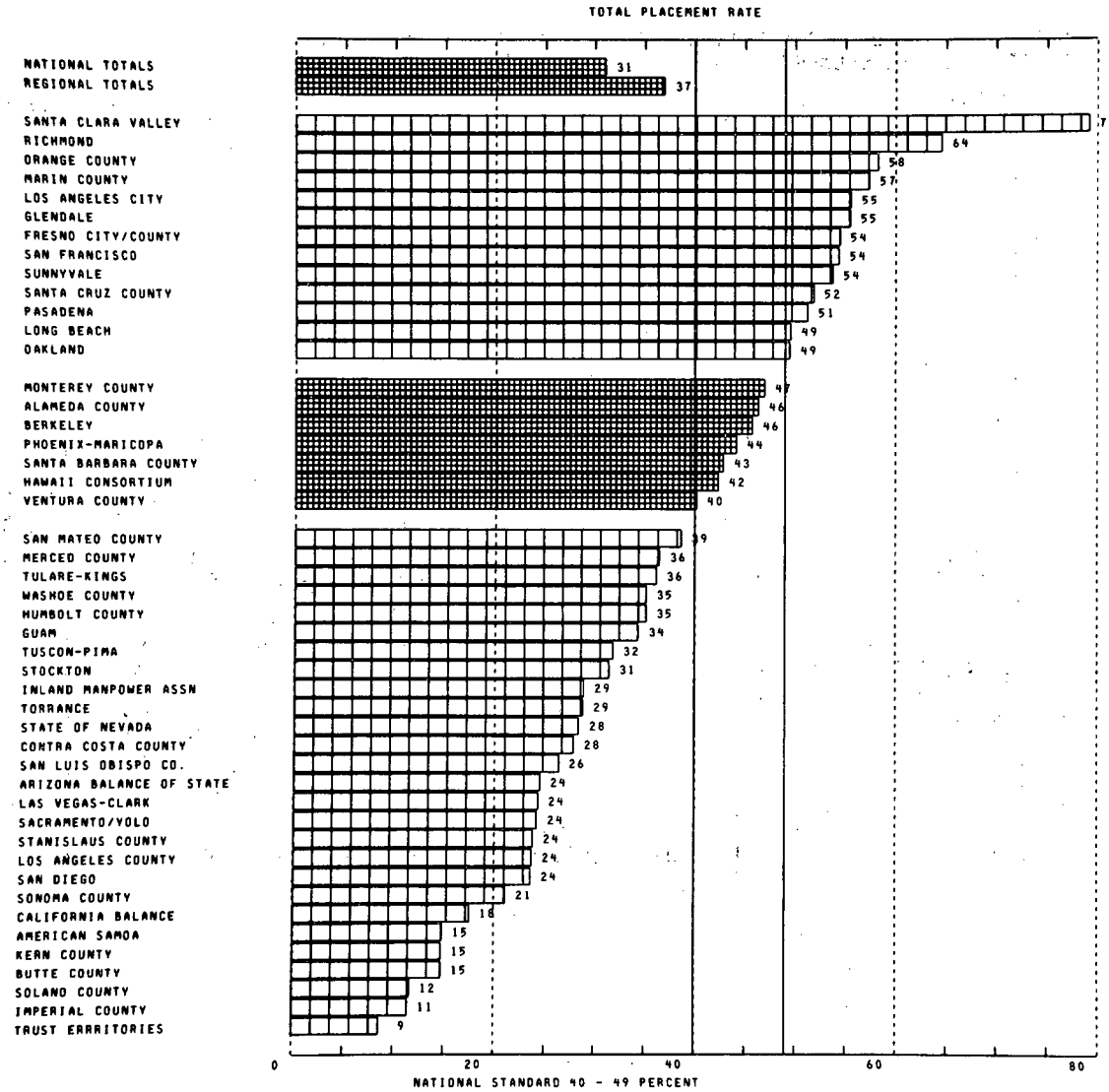
FY 1977 ANNUAL WORK PLAN
ES PERFORMANCE STANDARDS
(GRANTS CUMULATIVE)

(A) PLACEMENTS OF INDIVIDUALS WILL INCREASE 6% TO 10% FOR FY 1977 IN EACH STATE AGENCY OVER THE FY 1976 EXPERIENCE



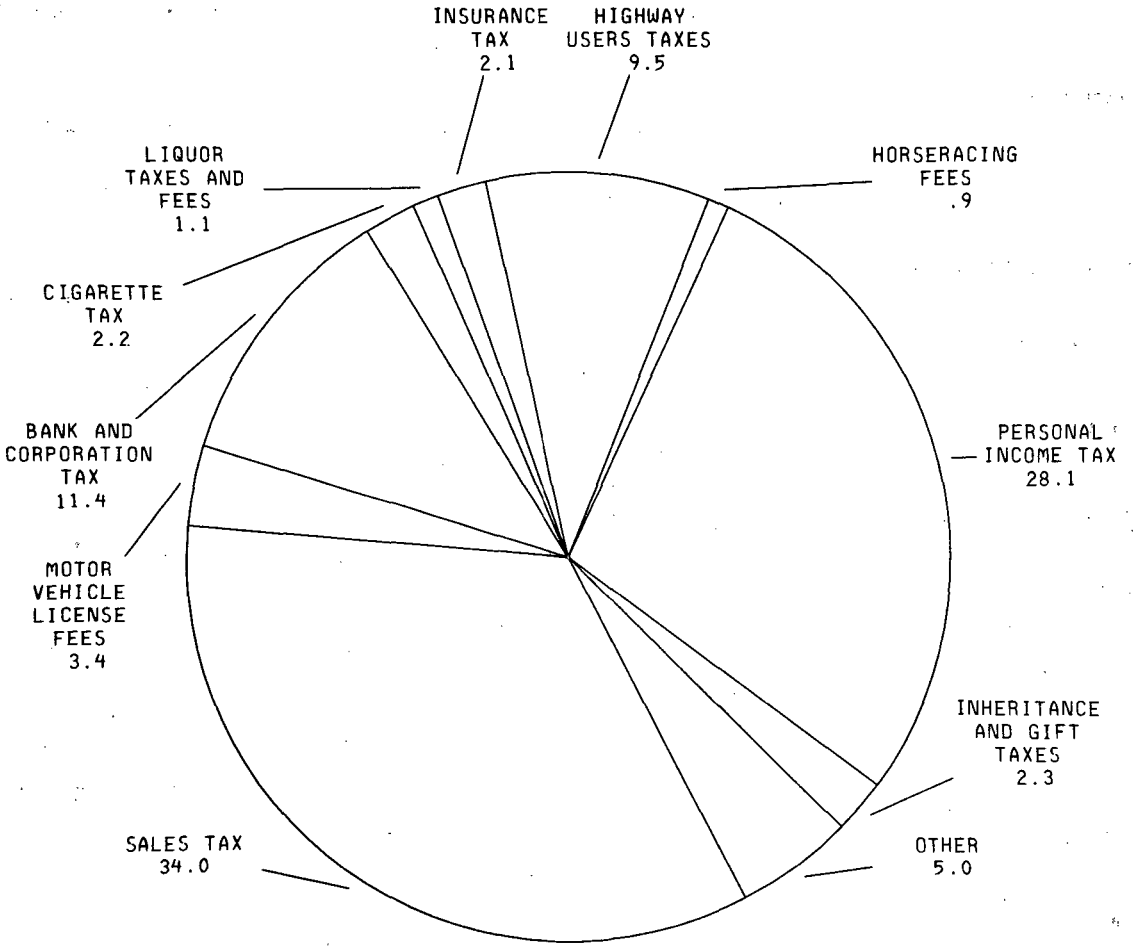
XBL 775-8829

CETA TITLE 1
SELECTED PERFORMANCE INDICATORS
FISCAL YEAR 1976 CUMULATIVE THROUGH JUNE 1976



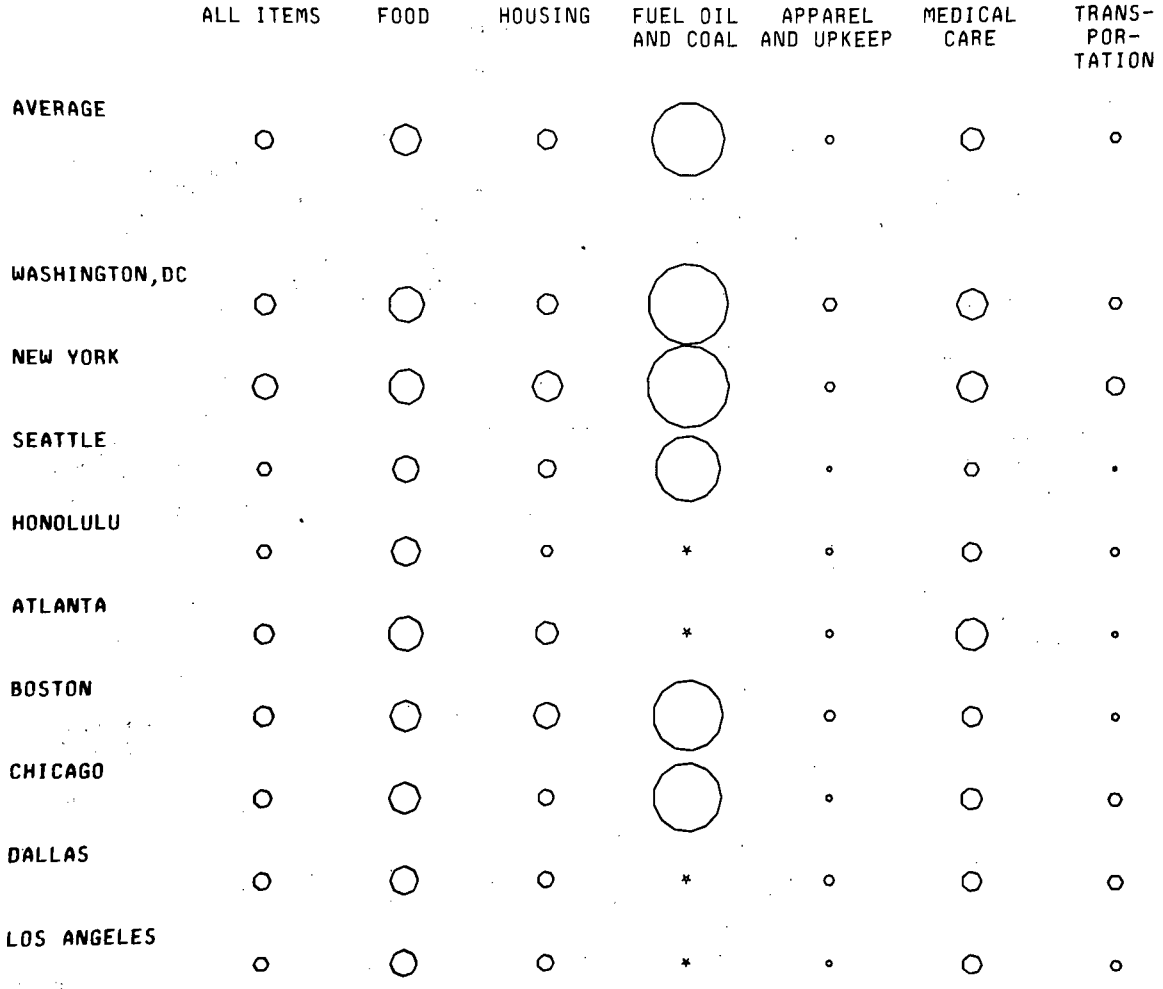
XBL 775-8824

REVENUE DOLLARS
CALIFORNIA
1976-77 FISCAL YEAR



XBL 775-8828

MATRIX DISPLAY REPRESENTATION OF TABLE 1
INCLUDING A HYPOTHETICAL AVERAGE CITY
THE SIZES OF THE DOTS ARE PROPORTIONAL TO THE DATA
THE LARGEST DOTS STAND OUT

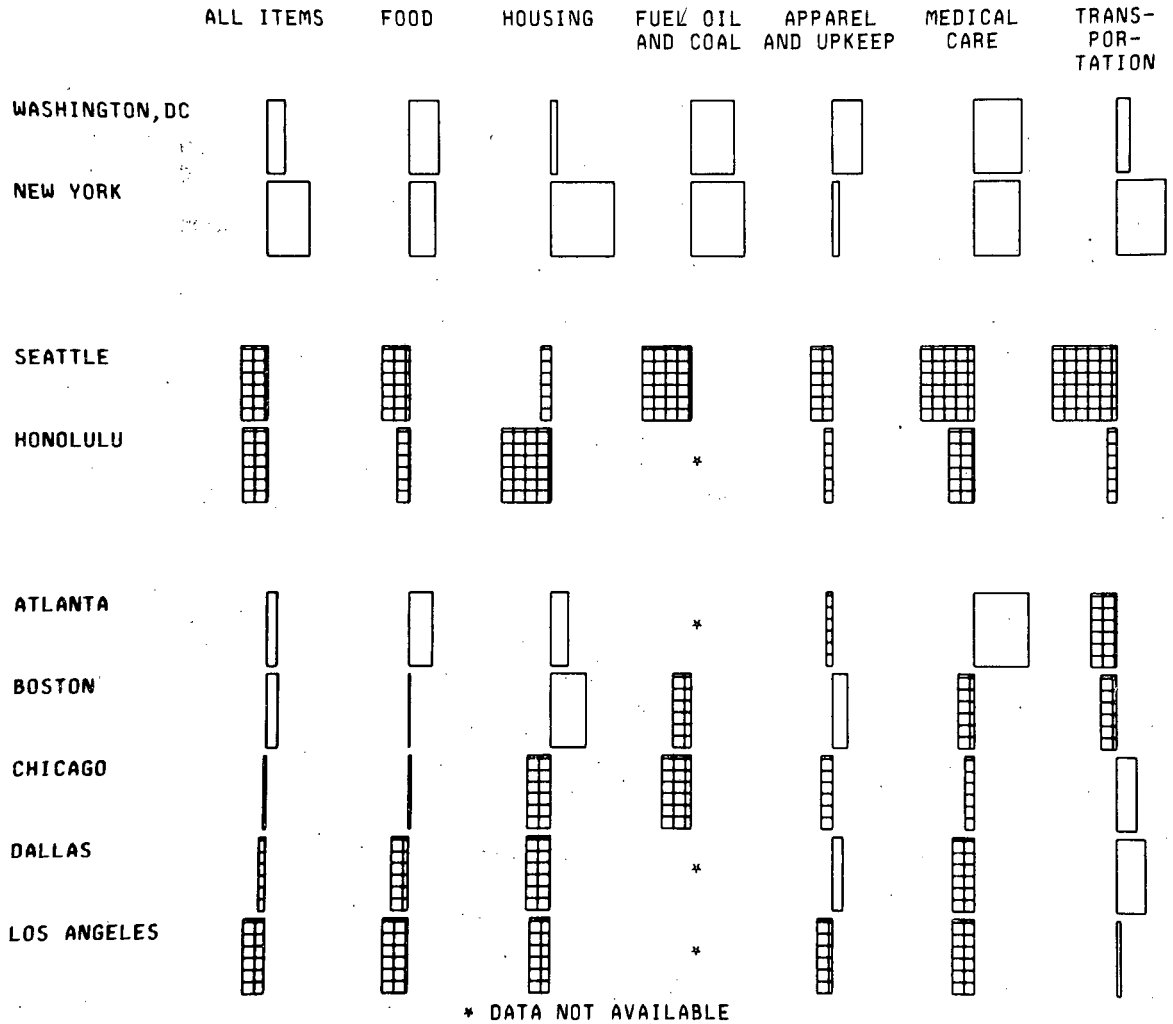


* DATA NOT AVAILABLE

FIGURE 1A

XBL 775-8815

VERTICAL PROFILES SHOW DIFFERENCES FROM THE AVERAGE
(SHADED BARS INDICATE NEGATIVE VALUES)
CITIES HAVE BEEN GROUPED ACCORDING TO
ABOVE AVERAGE, BELOW AVERAGE, OR MIXED PRICE INDEXES



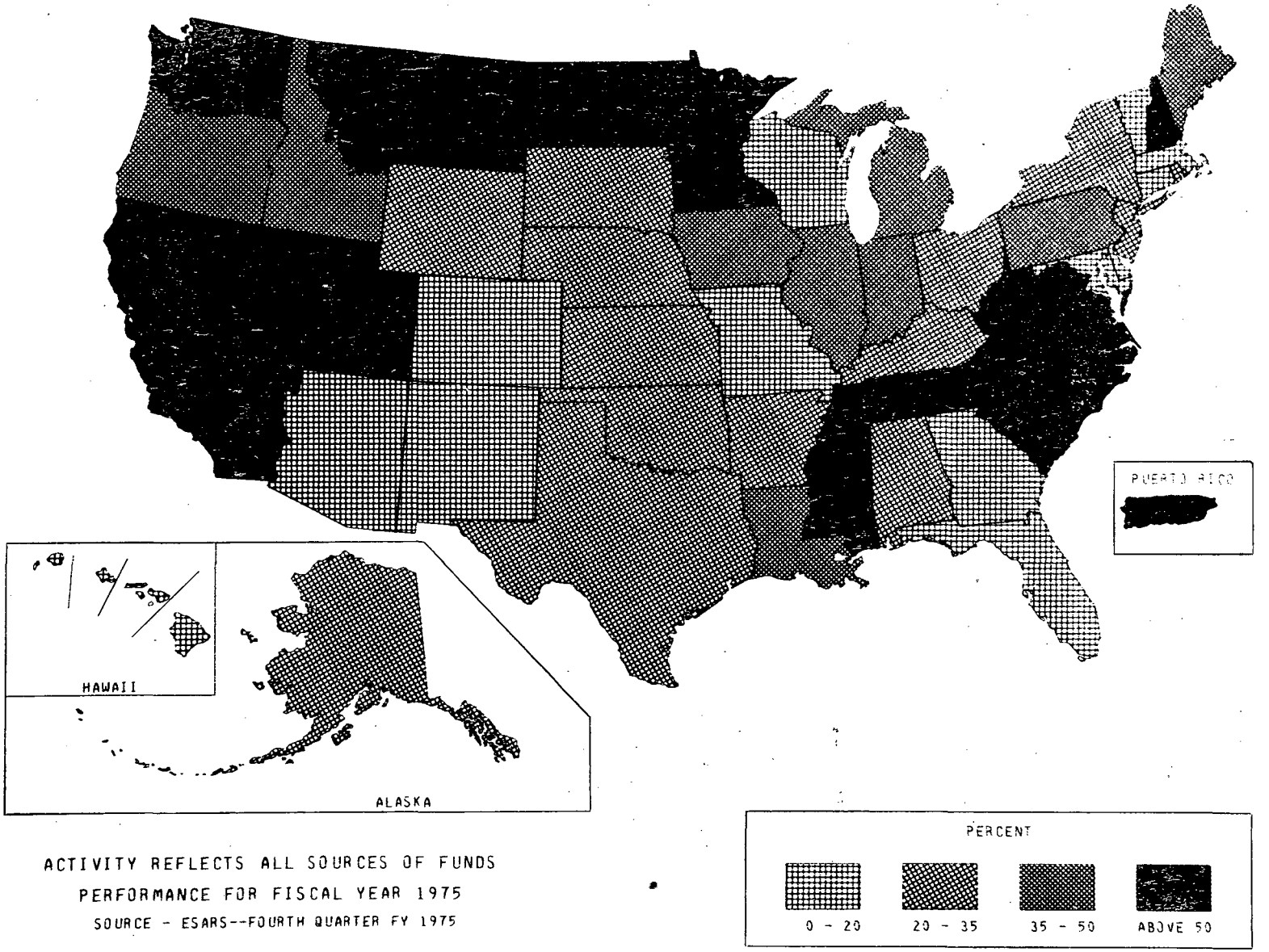
* DATA NOT AVAILABLE

FIGURE 1B

XBL 775-8819

MAP 26 MIGRANT WORKERS PLACED AS A PERCENT
OF MIGRANT WORKER NEW APPLICATIONS AND RENEWALS

EMPLOYMENT SERVICE PERFORMANCE INDICATORS FOR FY 1975



ACTIVITY REFLECTS ALL SOURCES OF FUNDS
PERFORMANCE FOR FISCAL YEAR 1975
SOURCE - ESARS--FOURTH QUARTER FY 1975

U.S. DEPARTMENT OF LABOR
MANPOWER ADMINISTRATION

LAWRENCE BERKELEY LABORATORY
UNIVERSITY OF CALIFORNIA

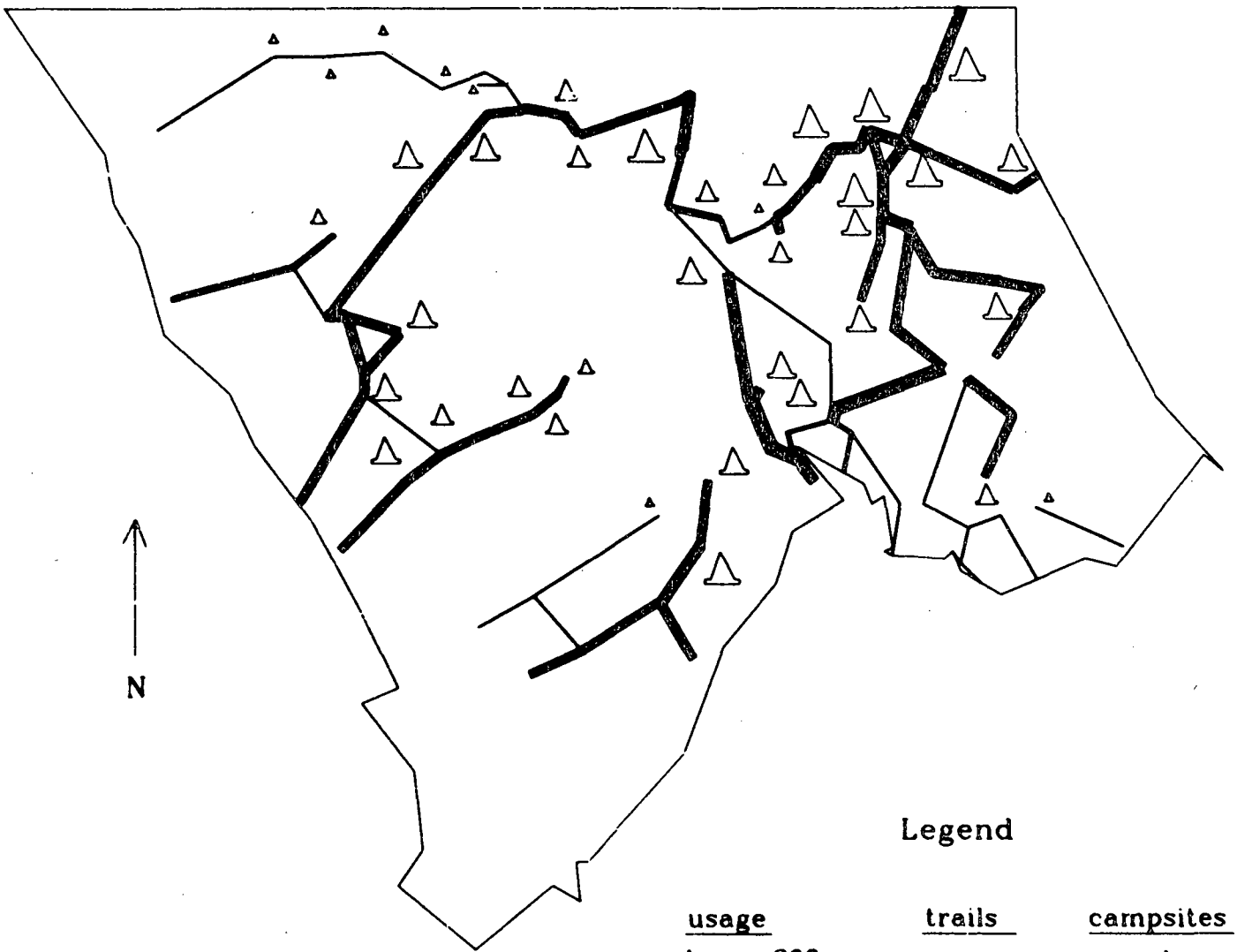
ENTIRE A,6000 DMIN

Capacity - ACTUAL

Season - ENTIRE

Volume - 6000

Minimization - DANGER



Legend

usage	trails	campsites
above 300		
101-300		
51-100		
1-50		
0		

party - days nights

OPTIMAL BACKCOUNTRY USE PATTERN

XBL 772-7595

APPENDIX C

C. CONNECTING A TERMINAL TO THE LBL COMPUTER CENTER

The LBL computer center is accessible to remote terminals via telephone. For this process you need an a 'acoustic coupler' or 'modular-demodulator' (modem). This device contains a cradle to hold the normally hand held portion of the telephone, and its purpose is to change the signals from your terminal to a form suitable for ordinary telephone communications (modulation) and also to do the reverse when receiving signals from LBL (demodulation). A modem may be built into a terminal or it may be a separate device attached to the terminal with a cord.

The steps in connecting a terminal with a modem are listed below.

1) Plug in and turn on both the terminal and the modem.

2) If there is a switch labeled FULL and HALF duplex, set it to FULL duplex.

3) If there is a switch to set the speed of the printout, set it to either 10 or 30 CPS (characters per second).

4) Pick up the phone and dial one of the numbers listed below.

COMMERCIAL
415-549-2820 (10 CPS)
415-549-2824 (30 CPS)

FTS
451-6041 (30 CPS)
451-5752 (30 CPS)

5) Hold the phone somewhat away from your ear and listen for a constant high pitched tone.

6) Quickly place the hand held portion of the phone in the modem cradle. Be sure in advance which way it is supposed to go. The modem or terminal itself will probably have a 'carrier detect' light to signal that a proper signal is being received.

7) Set the terminal to 'on line' via a switch somewhere in plain sight (hopefully).

8) Enter a line feed followed by the two characters '>T' followed by a carriage return. If the result is a printout of the time and date in Berkeley, you are then connected.

9) Enter a line feed followed by the three characters '@EP' followed by a carriage return. The result should be a single line with an exclamation point. (This prevents communication problems with certain terminals. It stands for 'extra padding' if you really want to know.)

APPENDIX D

D. LOGGING INTO LBL COMPUTER CENTER AND STARTING THE MONITOR

Once you have established connection with the computer center, you will need to 'start a job' on the computer. To do this, enter the following line exactly as shown with the characters 'ACCOUNT NUMBER' replaced by your 6 digit account number, and the characters 'YOUR NAME' replaced by your name. This name should be the same as the name you use when logging into the Monitor. In the near future, the Monitor log in procedure will use the name on the login line to automatically log you into the Monitor.

>LOG,SEEDIS,12,500.Account Number,Your Name

The response should be several lines ending with the following line -

OK - SESAME

START SEEDIS

The result should be the following introduction to the Monitor.

In order to use the SEEDIS Monitor you must have a valid
user (login) name that is known by the system. If you do
not have one and wish to obtain one please contact
Peter Kreps, LBL, Berkeley, (415-843-2740 x5830)

The user name 'GUEST' may be used as a temporary name to
try out the Monitor.

Please type your user name (up to 10 characters, no blanks or punctuation)
Name (at this point, you will log into the Monitor
Password as described in the manual under module 'LOGIN')

You are now operating the Monitor system.

APPENDIX E

CARRIAGE RETURN KEY - SENDING LINES

The carriage return key (often labeled "RETURN") is used to signal the end of an input line. The computer center prints an exclamation mark at the end of the line at your terminal, returns the carriage and moves the recording medium to the beginning of the next line. The computer center attempts to process the line immediately, and this is the usual case. When the computer center is too busy to do so it will "remember" up to two lines at once. If you attempt to enter a third line before either of the previous two are accepted the only response will be the ringing of your terminal's bell (if it has one and if it's operational). If this situation arises you may simply wait for the computer center to get around to processing your lines. If you select this course you can tell when the computer center is again ready for your business when it 1) responds to one of your last two lines or 2) does <u>not</u> ring your terminal's bell when you attempt to enter a line. This can turn into quite a waiting game so you may wish to go to the colon key.

THE COLON - CLEARING A JAM

Four possible results to striking the colon key are:

1) The response

": DELETED 2 LINES"

is received. This means that the colon was entered while the computer center was busy and that the last two lines you entered were not processed and are indeed now forgotten. At this point you may enter a new line, most probably a computer center command to try and find out why things are so busy.

2) The response consisting of a line with a single colon is received. This means that only the last line entered was not processed and has been forgotten.

3) No response (not even a bell ring). This means that all lines previously entered have been processed.

4) A colon is printed and the terminal carriage is not returned. This means that the colon was not the first character of a line. (If you wanted a colon as the first character of a line, enter line feed and then colon.)

LINE FEED KEY - DELETING PARTIAL LINES AND SUPPRESSING OUTPUT

If you have entered any characters in an input line but have not yet entered a carriage return, you may erase the whole line by entering a line

feed. The computer center indicates that this has been done by printing three backslashes over the beginning of the line and then advancing the recording medium to the beginning of the next line. If a line feed is entered as the first character of an input line the recording medium will simply be advanced to the next line

If you enter a line feed while a line is being printed at your terminal from the computer center, the printing of that line will be immediately stopped and the printing of the next line, if any, will begin.

RUBOUT OR DELETE KEY - ERASING SINGLE CHARACTERS

When this key is struck, the last character entered in your input line is erased. The computer center indicates this by printing a backwards slash followed by the character deleted. Repeated use of this key allows you to "backup" as much as you like. (This key may be appreviated "DEL" on your keyboard.)

APPENDIX F

These commands may be entered at any time. Just enter the command and press the return key. Most explain something about the status of the overall computer center or some portion of it, including your own personal "job".

JOBNAME - YOUR PERSONAL STATUS

(>>JOBNAME)

To find the name of your computer "job", look at the first lines the computer prints when you start your job. When you successfully use the input line beginning with >LOG to log onto the LBL Computer System, one of the responses you receive is

"JOBNAME" LOGGED IN...

Where "JOBNAME" (consisting of seven characters ending with two or more numerals) uniquely identifies your interaction or job at the computer center. Typical responses to this >>JOBNAME command are -

XEQ - "JOBNAME" - 66B

JOBNAME is operating or executing ("XEQ") on the computer center computer named "66B" (a Control Data Corporation 6600).

WAIT MEMORY - "JOBNAME" - 66B

JOBNAME is waiting while other JOBNAMES use the 66B. Your job should soon be executing again.

WAIT PSS RD - "JOBNAME"

JOBNAME is waiting to read from a storage device called "PSS". You may wish to enter the command ">B" to see how many jobs are waiting for this device.

WAIT TTY ACTIVITY - "JOBNAME"

JOBNAME is operating and waiting for you to enter a command or other input from your computer terminal.

IN OUTPUT QUEUES - PR MF - "JOBNAME"

JOBNAME has stopped operating but its output (PRinter and MicroFiche) has not been completed.

"JOBNAME" JOB CONCLUDED

JOBNAME has stopped operating and all output has been completed.

"JOBNAME" JOB STATUS UNKNOWN

No job by the name of JOBNAME can be found.

THE SEEDIS COMPUTER'S STATUS

(>B)

This command gives status information about the computer on which the SEEDIS data retrieval programs are run. This computer is a Control Data Corporation 6600 and is known at the computer center as the "66B" or "B Machine". Typical responses are

B DISCONNECTED FROM RECC

The 66B is not operating. It is usually back in seconds with no damage suffered by your job. However, it may not be back for hours, though this is very rare. In general, the longer the 66B is not operating, the more likely your job will <u>not</u> survive.

XEQ-11, MEM-6, PSS RD-4, MSS-DN, TTY-9, QS PR-120 IN-10

Your main interest in this line will, in most cases, be that it simply exists instead of the previously explained response. Some of the status information may be mysterious to you because it refers to computer center equipment users of SEEDIS data retrieval programs never use. This example is designed to cover status information you might be interested in. It tells you that 11 jobs are executing, 6 are waiting for MEMory, 4 are waiting to read from PSS (a storage device), MSS (another storage device) is not operating or "down" (DN), 9 are waiting for a computer terminal entry and in the input and output queues (QS) there are 120 jobs waiting to PRint on paper and 10 in the INput queue waiting to begin operating.

COMPUTING UNITS REMAINING

(>CU)

Gives the number of <u>C</u>omputing <u>U</u>nits your job has remaining where each CU corresponds to about six cents.

TIME

(>T)

Gives the time and date in Berkeley.

BROADCAST MESSAGE

(@BM)

The operations staff at the computer center puts out a "broadcast message" a few times each day which prints out on all terminals connected at the time. It is usually only one line and always begins with a period (.). Its content is generally about the latest major event to happen with the equipment in the computer center. However, its messages are basically unpredictable, often hours out of date, and will often be meaningless to SEEDIS users. This command will print out the latest one.

TEST MESSAGE

(@TM)

This gives you a "test message" consisting of most of the characters on your keyboard. Use this several times in a row if you suspect you are having communications problems or something is wrong with your terminal. If each line is not the same you have overwhelming evidence that your suspicion is correct.

TRANSMISSION PROBLEMS

(@EP)

If you find you are having communications difficulties, try this command (it stands for "extra padding" if you really want to know). If that dosen't solve your problem try stopping your present session, disconnecting your terminal, hanging up your telephone, and starting over again from scratch.

APPENDIX G

BELL RINGING

If this happens when you attempt to enter a line it means the computer is busy. For more information see "Carriage Return - Sending Lines" and "The Colon" explained earlier in this chapter.

NO RESPONSE - TERMINAL FREEZEUP

Try entering a colon.

A STRANGE RESPONSE BEGINNING WITH A PERIOD (.)

This is probably a "Broadcast Message" from the computer center operations staff. (See computer center commands earlier in this chapter.)

(TTY SYSTEM KILL IN 15 MINUTES)

The computer center has not received an entry from you for 15 minutes. If you do not enter something other than a computer center command in the next 15 minutes, your job will be eliminated!

A RESPONSE BEGINNING WITH A LEFT PARENTHESIS

This is a message directly to you from the 66B human operator. Usually it is a kind suggestion to finish what you are doing and quickly terminate your "job". (If you do not take the advice nasty things usually begin to happen to you.)

APPENDIX H

THE SEEDIS DATA RETRIEVAL COMPUTER

The computer used for SEEDIS data retrieval programs is scheduled for maintenance Tuesdays from 0500 to 0845 Berkeley time. (It is often taken away from you for a while on other days during that time period, usually right around 0600).

PSS - A SEEDIS STORAGE DEVICE

The storage device called "PSS" or "Data Cell" is scheduled for maintenance on Wednesday and Thursday mornings from 0700 to 0900 Berkeley time, as required.

MSS - A SEEDIS STORAGE DEVICE

The storage device called "MSS" or "Chip Store" is scheduled for maintenance Mondays, Tuesdays, Wednesdays and Fridays from 0700 to 0900 and Thursdays from 0700 to 1100 Berkeley time.

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