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ECONOMIC IMPACT FORECAST SYSTEM (EIFS) II:
USER'S MANUAL, UPDATED EDITION

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This report describes a computer-based system which is in the process of being transferred to an operating agency for production use, training, and maintenance. However, until the process is completed, CERL has been authorized to work with DOD users in extending the field testing of the system. This arrangement provides for CERL staff assistance to the user on a cost reimbursable basis and on a staff available basis. The details for making such an arrangement are described in the report. When the transfer is completed the operating agency will provide these services.

[Signature]

PAUL J. THEVEN, P.E.
Colonel, Corps of Engineers
Commander and Director
FOREWORD

This project was performed for the Directorate of Engineering and Construction, Office of the Chief of Engineers (OCE), under Project 4A762720A896, "Environmental Quality for Construction and Operation of Military Facilities;" Task 01, "Environmental Quality Management for Military Facilities;" Work Unit 002, "Development of Environmental Technical Information System." The work was performed by the Environmental Division (EN), U.S. Army Construction Engineering Research Laboratory (CERL). Mr. V. Gottschalk, DAEN-ECE, was the OCE Technical Monitor.

This research was made possible through the efforts of Department of Defense (DOD) personnel, consultants from the University of Illinois, and scientists and engineers of CERL.

Administrative support and counsel were provided by Dr. R. K. Jain, Chief of CERL-EN. COL Paul J. Theuer is Commander and Director of CERL, and Dr. L. R. Shaffer is Technical Director.
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ECONOMIC IMPACT FORECAST SYSTEM (EIFS) II: USER’S MANUAL, UPDATED EDITION

1 INTRODUCTION

Background

Following the passage of the National Environmental Policy Act (NEPA) in 1969,1 two orders established that all Federal agencies must assess the environmental impacts of their major programs and actions as well as provide leadership in environmental protection.2 Because of NEPA’s requirement for assessing any impacts on the “quality of human environment,”3 subsequent questions arose regarding whether this mandate extends to the social and economic impacts of programs and actions. Many courts have decided that in preparing Environmental Impact Statements (EISs), adequate assessment of social and economic impacts is as important as assessment of biophysical impacts.

In the past, requirements such as the Case Study Justification Folder (CSJF) documentation for Department of the Army (DA) realignment actions provided for identifying potential economic impacts and considering these impacts in the decision-making process. More recently, Department of Defense (DOD) guidelines have encouraged a uniform approach to socioeconomic impact assessment, so that all DOD agencies may benefit from a systematic approach and uniform documentation. The desire for uniformity stems, in part, from the uniqueness and geographic distribution of DOD installations, their effects on local economies, and the complexity of problems associated with determining the social and economic implications of DOD realignment actions.

To address the need for a systematic approach to socioeconomic impact assessment, with substantial cooperation and support from the Department of the Air Force (USAF), has developed the Economic Impact Forecast System (EIFS), which provides information useful for calculating social and economic changes caused by DOD actions.4 This computer-aided system is designed to be a user-oriented, inexpensive, and systematic approach to meeting NEPA requirements. EIFS points out potentially significant problems early in the

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decision-making process so that alternatives may be considered. If no significant impacts are shown, adequate documentation of these impacts is still available.

Since the development of the original version of EIFS, the approach has been reviewed by members of the scientific community, including some of the nation's leading regional economists. Some modifications to the multiplier and other equations have been implemented to further refine the model. This report presents user instructions for this modified and updated version of the system. Information in this report supersedes information in CERL Technical Reports N-2 and N-69. Many problems identified by users in interpreting Technical Report N-69 and DA Pamphlet 200-2 have also been alleviated in this updated report.

Objective

The objective of this report is to provide instructions for using and interpreting output from the updated version of EIFS (EIFS II).

Approach

Experience obtained through assisting field users of EIFS was noted, and a plan for providing a more general user manual for EIFS II (free of limitation to any particular version) was devised. A user's manual was then prepared which meets the necessary criteria and explains in more detail how to use EIFS II in an interactive mode.

Mode of Technology Transfer

It is recommended that the information in this report be used in the revision of Department of the Army Pamphlet 200-2. Concurrent with this revision, it is recommended that existing computer system documentation of the EIFS model be altered to conform to EIFS II.

5Economic Impact Forecast System: Description and User Instructions, DA Pamphlet 200-2 (Department of the Army, December 1976).
INTRODUCTION TO THE ECONOMIC IMPACT FORECAST SYSTEM

CERL developed EIFS to provide DA users with access to (1) selected Department of Commerce statistics regarding the socioeconomic characteristics of any multicounty area in the United States, and (2) a readily implemented analysis technique for assessing the magnitude and significance of potential socioeconomic impacts on those areas. Although EIFS was initially available for only a limited number of DA facilities, DA and USAF support gave impetus to its expansion to include all areas of the United States. Systematic improvement of the EIFS methodology has provided users with additional capabilities and refinements such as (1) a more realistic export employment multiplier,\(^7\) (2) tract-level socioeconomic data,\(^8\) and (3) the Rational Threshold Value (RTV) technique. Much of the work that constitutes EIFS II is contained in several of the new profiles of EIFS, Version 2.5. Because the format of EIFS II is similar to that used for the original version of EIFS, the acronym EIFS will continue to be used throughout this document.

EIFS acts as both an information source and as an analytical tool. The current database is obtained from a variety of sources: Census of Population, Census of Housing, Census of Manufacturers, Bureau of Economic Analysis (BEA) estimates, County Business Patterns (CBP) reports, and private marketing data firms.

A technique based primarily on the economic export base techniques\(^10\) is used to develop the necessary "multipliers." These multipliers are indicative of the total effect to be gained by adding new personnel or expenditures to a region. EIFS calculates and uses both employment and income multipliers to provide estimates of regional economic impacts.

The present EIFS system has evolved from the two-digit multiplier technique used originally to an improved four-digit multiplier. The original EIFS multipliers were based on the Bureau of Census classification of industries. Since the more aggregated approach would lead to an extreme overstatement of the multiplier, the next step in the EIFS development was to disaggregate the employment data. This was done by using the BEA County Business Patterns

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CBP) computer tapes, which break employment down into the four-digit Standard Industrial Category (SIC) code. The previous calculations had been done at an approximate two-digit level. This four-digit multiplier should more accurately reflect the actual situation, since the additional detail would be more apt to catch small interindustry transactions. This four-digit multiplier is still an overstatement of the multiplier, although the actual or exact multiplier cannot be scientifically validated. Table 1 shows the effect of disaggregation.

Table 2 indicates the use of the "location quotient" technique for identifying the number of employees producing goods for export and also indicates the simplicity of the multiplier calculation for a very simple four-sector economic region. The actual technique in EIFS, of course, uses between 300 and 800 sectors.

Column 1 of Table 2 gives the percentage of the total national employment that each industry provides, Column 2 provides the total employment in the region for each industry, and Column 3 calculates the percentage of total regional employment that each industry contains. Location quotients are derived by dividing the items in column 3 by those in column 1. A location quotient greater than 1.00 indicates that the region exports those commodities to other regions. Location quotients less than 1.00 imply that the commodities are not produced locally in quantities sufficient to satisfy local needs and therefore must be imported. Finally, location quotients equal to 1.00 indicate that the region neither imports nor exports those commodities.

To find export employment in a basic industry, 1.00 is subtracted from the location quotient, and the answer divided by the original location quotient (Column 5). This answer gives the percentage of employment for the industry involved in export activity. Multiplying the items in column 5 by those in column 2 provides the number of export employees for each industry. The multiplier is the ratio of total regional employment to export employment. In this example, the multiplier is 5, indicating that a $1 increase in export demand would cause a change of $5 in regional income.

The size of the multiplier is directly related to the size of the region, the diversity of its industrial and commercial base, and the size of its population. The greater the population size, the more diverse is the region's economic base, and the more likely that purchased products are manufactured locally rather than imported. Therefore, money injected into the economy is "recycled" more often, causing greater changes in income.

Economic base analysis, with location quotients used as the technique for calculating multipliers, is at the heart of EIFS. CERL scientists believe that the advantages of this technique—reliance on published data sources, incorporation of indirect and direct exports, and the relative minimal cost involved—far outweigh its disadvantages.

Once the total effect is obtained, EIFS distributes the impact to various sectors of the regional economy. Appendix A clarifies the techniques used in EIFS.

Table 1

The Effects of Disaggregation
(From Andrew Isserman, "The Location Quotient Approach to Estimating Regional Economic Impacts," AIP Journal [January 1977].)

| Area                                   | Multiplier
|----------------------------------------|-------------
|                                        | Division Level | Two-Digit Level | Three-Digit Level | Four-Digit Level |
|                                        | Data          | Data           | Data             | Data             |
| Georgia                                | 19.01165      | 6.57299        | 5.49690          | 4.84118          |
| Kansas                                 | 10.30828      | 6.51033        | 4.78054          | 4.29892          |
| Philadelphia Standard Metropolitan Statistical Area (SMSA) | 17.24355 | 9.10950 | 6.03754 | 5.18102 |
| Washington, DC SMSA                   | 3.30660       | 2.97354        | 2.81134          | 2.79792          |
| Fort Monmouth Tri-County, NJ          | 15.68284      | 7.17098        | 5.18690          | 4.4776           |
| Monmouth County, NJ                   | 7.22016       | 5.16081        | 3.88481          | 3.49575          |

Employment data sources: County Business Patterns, 1972 augmented by data on government employment obtained from the Bureau of Economic Analysis, U.S. Department of Commerce.

Table 2

Location Quotients for a Hypothetical Region

<table>
<thead>
<tr>
<th>Industry or Sector</th>
<th>Percent of National Employment</th>
<th>Percent of Regional Employment</th>
<th>Percent of National Employment</th>
<th>Location Quotient</th>
<th>LQ-1 No. of Export Employees</th>
</tr>
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<tbody>
<tr>
<td>Services</td>
<td>.40</td>
<td>400</td>
<td>.40</td>
<td>1.00</td>
<td>--</td>
</tr>
<tr>
<td>Durable Goods</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Manufacturing</td>
<td>.20</td>
<td>75</td>
<td>.075</td>
<td>.375</td>
<td>--</td>
</tr>
<tr>
<td>Nondurable</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Manufacturing</td>
<td>.10</td>
<td>25</td>
<td>.025</td>
<td>.25</td>
<td>--</td>
</tr>
<tr>
<td>Trade</td>
<td>.30</td>
<td>500</td>
<td>.50</td>
<td>1.667</td>
<td>.40 200</td>
</tr>
<tr>
<td>Total</td>
<td>1,000</td>
<td></td>
<td></td>
<td></td>
<td></td>
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</table>

Multiplier = \( \frac{\text{Total Employment}}{\text{Basic Employment}} = \frac{1000}{200} = 5 \)
This report is a tutorial and reference document on the practical uses of EIFS. It addresses the principles of interactive computing, operation of interactive terminals, and use of EIFS software. It does not include technical documentation of the EIFS algorithms, economic models, or databases. The report is designed to be used initially as a step-by-step guide; when the user has become familiar with the system, it may be kept handy as a reference to answer questions.

The contents of the report have been divided into sections covering discrete topics. Where possible, an informal, tutorial approach is used; assumptions of the user's computer expertise are minimized. Instructions are presented both in the text and by numerous examples. New users should read the text and examples and then experiment with the system to gain "hands-on" experience.

EIFS is an evolving system; new features and improvements are continually being added. Most changes affect only the internal functioning of the system and will not affect the operating procedures. Other changes, such as the addition of new profiles, which have a relatively minor impact on users, will be announced and documented by system messages. Version 3 of EIFS will be announced by a new edition of this manual. This current edition describes EIFS II, which has a revised and expanded list of program options.

For example, the user can now create an "alias," which will be recognized by EIFS during subsequent sessions, with an area of study. This means that the user can type in a short name to access an area of study which has a lengthy specification.

The databases have also been updated and more data has been added, including the 1980 census data. The directions which aid the user in making step-by-step decisions (the "help" files), have also been improved. The equations which are used in the mathematical models in EIFS are documented in Appendix A.

Minor changes to this edition will be announced and documented interactively in EIFS, eliminating further duplication of this manual. There are also plans for implementing a complete on-line documentation system. Some features are already documented by the program; typing a question mark will command EIFS to print this information. Eventually, at any point where EIFS expects user input, help will be available from the computer. This document itself will eventually be stored on the computer in such a way that the user can call up any section on the terminal screen.

This report can be used most effectively in a three-ring binder. Sections can then be separated, and future additions (available by interactive retrieval) can be added.
INTRODUCTION TO INTERACTIVE SYSTEMS

Definition

EIFS is an interactive or "conversational" system. This means that the user can interact with EIFS to enter data, examine output, and choose program options while an EIFS program is actually running. The term conversational refers to the fact that the computer will type out operating instructions and other information at the user's request; thus, a sort of conversation between the user and EIFS is simulated.

To illustrate the distinction between an interactive system and a non-interactive or batch one, consider the following analogy of buying a pair of shoes by mail out of a catalog, as opposed to buying them in person at a store. Ordering by mail requires filling out an order form, mailing it in, and waiting for delivery. When it arrives, it may or may not be what was ordered. Exchanging it then requires another time-consuming round of the same process, and may still provide an unsatisfactory product. On the other hand, a salesperson in a store will wait on you, help you find what you want, and compute the charge. The entire transaction takes a matter of minutes.

A batch system is analogous to the mail-order company, and an interactive system is analogous to a store. Both types of program accept input or instructions from the user and deliver output or results, but there is a great difference in convenience and effectiveness.

With a batch system, the user prepares all input and submits it as a unit, as in the case of a deck of punched cards; the program responds later, possibly much later, with its entire output. Therefore, the user must know what he/she wants before starting. If the input contains an error, it will not be discovered until much later, possibly after a long, expensive computer run. In addition, many systems require the user to specify several computer factors unrelated to his/her problem, such as how much time the run should take or how many lines of output will be allowed. Running the program may require the user to be versed in the computer system and its jargon, such as operating card punch machines and readers, writing job control instructions, or interpreting error messages. This may require the use of computer consultants, who have little or no understanding of the user's technical requirements.

With an interactive system, the user submits his/her input one step at a time in response to prompting from the computer. Invalid input will be discovered quickly; the output appears quickly, and if it is wrong, the input can be modified. Most interactive systems assume that the user is not trained in computer operations; instead, their instructions are in the language of the field they operate in and do not require that the user provide complex system commands or interpret strange system messages. They further assume that the user is not sure of what is to be done; they provide "menus" or lists of options to choose from, with explanations of what each is, and what must be done to get it. The equipment needed to access an interactive system is little more complicated than a typewriter and a telephone; a user can often keep such a device in his/her own office.
EIFS is a large set of programs and databases (a system), controlled by a master system called UNIX, which has its own programs and databases for normal operations. To distinguish between the two systems, UNIX is often called the "operating" or "executive" system, while EIFS is an "application" system. Both UNIX and EIFS are interactive; in fact, an interactive application system generally requires an interactive operating system. Most users will not be aware of UNIX; they will see it momentarily when they initiate and end sessions with EIFS. As some users become more familiar with the computer, they may begin to take advantage of some of the many powerful features offered by UNIX. The most important of these are the communication facilities (i.e., the "mail" and "write" commands), which allow users to communicate with each other and with EIFS administrative and maintenance personnel. If problems arise, the user can report them or seek assistance without having to use the telephone or mail.

The Terminal

An EIFS user interacts (provides input and receives output) through an interactive terminal. The terminal most commonly used with EIFS II is the Texas Instruments "Silent 700" series electronic data terminal, usually referred to as "TI." The instructions given in this report are for use with the TI model 745; other terminals operate similarly, as indicated by the manufacturer's instruction book.

The TI resembles an electric typewriter, but contains extra keys, continuous roll paper, and a receptacle for a telephone handset. Once the user has logged in, the terminal (Figure 1) is operated like a typewriter, with a few exceptions. The user indicates the end of a line of input by typing the RETURN key; generally, the computer will not reply until this is done. The RETURN key is often referred to in writing by the symbol <CR>.

On the UNIX computer system, use of lower-case letters is predominant. This convention is followed in EIFS; upper case is almost never used.

In addition to the lower- and upper-case letters and numbers common to typewriters, the terminal has a third set of letters called "control" characters (Figure 2). These letters are typed by depressing the CTRL key while striking a letter key, in the same way that one types a capital letter on a typewriter. The user need not be concerned with any control characters but the control-d and the control-h. Control-d (often referred to in writing by the symbol + D) has special significance; it tells the program that the user is finished, and is also used during logout. Control-h is the backspace key; if a mistake is made when typing a line, the user should backspace over the error and continue with the correct input.

The "at"(@) key performs a related function; it instructs the computer to disregard the entire line just typed and begin again. It is used when

Figure 1. The terminal keyboard. (Material extracted from Model 745 Portable Data Terminal Operating Instructions, Manual No. 984024-9701, Rev. A, with permission of publisher. Copyright 1975, Texas Instruments Incorporated.)

Figure 2. Special keyboard keys. (Material extracted from Model 745 Portable Data Terminal Operating Instructions, with permission of Texas Instruments Incorporated.)
back-spacing is inconvenient—for example, when the whole line is incorrect, or when backspacing and overstriking have obscured the line.

The DEL (some terminals label it RUBOUT) key causes the computer to drop what it is doing and attend to the user; it is usually used to abort a lengthy printout or cancel a requested option after EIFS has started to perform it. It is the only control character that does not require the use of another key simultaneously; it is not necessary to follow it with a RETURN.

The following steps should be used to prepare the terminal and connect to EIFS:

1. Set the terminal up in a work area near a telephone
2. Attach the power cord to the terminal and to an electric outlet
3. Turn the power switch on
4. Set the four rocker switches on the keyboard:
   "UPPER CASE" off
   "HALF DUP" off
   "LOW SPEED" off
   "ON LINE" on
5. Dial the UNIX telephone number: (217) 333-1587 or FTS 957-1587
6. Wait for the computer to answer with a steady tone
7. Place the telephone handset in the receptacle.

The terminal will signal a successful connection with a green light near the edge of the keyboard; the computer will display an identifying herald and prompt the user to login.
5 USE OF EIFS

Getting Into EIFS

When a connection has been made, UNIX will reply with a brief identifying message and a prompt for the user's login name. After the user's assigned login name has been typed, the computer will prompt for the matching password. For security, the password will not appear on the terminal printout as it is typed. If the password is typed incorrectly, the computer will print "Login Incorrect" and return to the login prompt. If the user cannot login, he/she should check to see that the login name and password are valid.

After login, the latest UNIX system messages will be printed; most or all of these messages will not concern the EIFS user (Figure 3). Occasionally, they will announce when the computer will be unavailable.

If the last output from the computer is a percent (%) sign, the user is at the "UNIX command level." At this level, all the commands and resources of the UNIX system are at the disposal of the user. It might be instructive for the user to try one or two very simple UNIX commands. For example, entering "date" will result in the time and date being typed out by the computer, and the "who" command results in a list of the users who are currently logged into the system. From this level, the user must first request that UNIX run the program ETIS (Environmental Technical Information System) before EIFS can be invoked. ETIS is a special umbrella or "shell" program which serves as a user receptionist for several systems, including EIFS. Simply type "etis" to run ETIS. (Arrangements can be made so that a user is placed directly in ETIS after signing on, thus eliminating a step in using EIFS. This is often convenient for a beginning EIFS user who is likely to be mainly interested in running only EIFS and not in exploiting any of the other UNIX facilities.)

Upon entering ETIS, a message will welcome the user to ETIS. This message will include directions on how to list the systems available in the ETIS system. The user might be interested in generating this list at least once for information or as an exercise. The list will point out that typing either "4" or "eifs" will invoke EIFS (Figure 4).

Upon entering EIFS, a welcoming message similar to the one from ETIS will be output. Any news regarding EIFS, such as system updates and other changes, will be reported in this message. The system will prompt immediately for the geographic region of interest. The user need not worry about "getting lost" in ETIS or EIFS or making some other costly mistake. These systems are "user proof," and they will lead the user step-by-step through a session.

At the end of an EIFS session, typing control-d will return the user to ETIS; typing control-d once or possibly twice more will result in logging out, as will hanging up the phone. In fact, at any stage of an EIFS session, typing control-d often enough will allow the user first to exit from EIFS and then to log out.
U of I Computing Services Office
Unix System
Login: hamilton
Password:

12Jan79 sys = da.noncpunix. (misc)
For Unix help, type help

rp5: 2087. Below 1000 indicates /mnt space shortage; act accordingly.
Machine room (209 ACB) is locked except 8:30-5:00 Mon-Fri.

Tues: Unix reboot 0800 ... back at 0815.
% etis
Welcome to CERL's

Environmental Technical Information System

What program? (Type <cr> to see List):

Figure 3. Example of user login with UNIX prompt and system messages.

ETIS: What program? (Type <cr> to see list): eifs

EIFS version 2.5 has been installed
The new EIFS incorporates many changes; for a description, see profile 97.
Economic Impact Forecast System (version 2.5)
First county or region (type ? for help):

Figure 4. Invoking EIFS from ETIS.
Selecting a Study Area

The first step in using EIFS is selecting a study area. A study area consists of one or more counties, and a group as large as 800 counties can be accommodated. In reality, choosing a study area can be a problem, and the final choice will depend on its purpose and use. A review of the issues and several "hints" for defining regions are provided in Appendix B. Counties may be identified by name, by Federal Information Processing Standard (FIPS) code, or by specially defined areas (Figure 5).

To select a county by name, give the name of the county and the name of the state it is in, separated by a comma (for example, "orange, california"). The word "county" is not necessary, but is acceptable. State names can be abbreviated, and EIFS understands several different abbreviations (for example, "ca," "cal," and "calif"). Periods, apostrophes, and spaces that may appear in some names, such as "st. louis," "o'brien," or "de soto," are not necessary, but will be accepted.

To select a county by FIPS code, type the five-digit code number (for example, "06059"). Five digits are necessary, so do not drop any leading zeros.

To select one of the predefined regions (e.g., military installations), type the name of the region (for example, "fort irwin").

If the study area will include an entire state, use the form "counties of .." to select all the counties of a state (for example, "counties of california"). This selection provides the same result as typing the names of each county in the state; later, it will assemble data for each county and add them up to provide state-level data. For some purposes, the database already contains state data. To access this, use the form "state of .." (for example, "state of california").

If a mistake is made while typing a county, state, or region name, EIFS will offer to print a list of counties, states, or regions. Appendices C through F list predefined regions and their constituent counties.

When selecting a study area, the user may type a question mark (?) to get a brief summary of the available specification formats, an asterisk (*) to get a numbered list of counties selected so far, or a minus sign (-) followed by a number to delete the numbered county from the list (Figure 6). To delete all the counties, type the DEL key to restart the selection process.

After selecting the study area, type RETURN to proceed to the next step (Figure 7). EIFS will display summary population and land area data for each county in the list selected (Figure 8), plus totals for the entire group. If the user does not continue, he/she may type control-d to exit from EIFS.

Selecting a Profile

After selecting the study area, the user will be prompted for the profile of interest; typing RETURN will cause a menu to be printed (Figure 9). Profiles are selected by typing the appropriate profile number.
First county or region (type ? for help): orange, california
First county or region (type ? for help): 06059
First county or region (type ? for help): fort irwin
First county or region (type ? for help): counties of california
First county or region (type ? for help): state of california

Figure 5. Formats for selecting counties.

First county or region (type ? for help): ?

You may select individual counties:
by <countynamel>,<statename> eg: los angeles, california
by FIPS code eg: 06037

You may select certain regions:
by <regionname> eg: fort benning
by <smsaname> "smsa" eg: chicago smsa
by "state of" <statename> eg: state of illinois
by "counties of" <statename> eg: counties of illinois
by "my" <private regionname> eg: my northern illinois

While you are selecting your study area, you may type:
# (sharp) to show how many counties you have selected.
* (asterisk) to show your list of counties so far.
+ to re-select your previous study area
-n (n = a number) to delete the n-th county from your list.
-all to delete all counties in your list (to start over).
save to store your selection as a private region for later recall.
unsave to delete a previously saved private region definition.
for more help.

If you misspell a county, state, or region name, you will be offered a list
of valid spellings.

When you finish selecting your area, type a carriage return.
To leave EIFS, type a control-d.

Figure 6. Selecting editing features.
First county or region (type ? for help): houston, al
Next county or region (type RETURN if done): jackson, fl
Next county or region (type RETURN if done): geneva, al
Next county or region (type RETURN if done): walton, fl
Next county or region (type RETURN if done): bay, fl
Next county or region (type RETURN if done): gulf, fl
Next county or region (type RETURN if done): henry, al
Next county or region (type RETURN if done): dale, al
Next county or region (type RETURN if done): early, ga
Next county or region (type RETURN if done): baker, ga
Next county or region (type RETURN if done): miller, ga
Next county or region (type RETURN if done): grady, ga
Next county or region (type RETURN if done): thomas, ga
Next county or region (type RETURN if done):

Figure 7. Ending study area selection.

You have selected:

<table>
<thead>
<tr>
<th>FIPS</th>
<th>County</th>
<th>State</th>
<th>'80 Population</th>
<th>Area (sq mi)</th>
</tr>
</thead>
<tbody>
<tr>
<td>01045</td>
<td>dale</td>
<td>al</td>
<td>47,821</td>
<td>559</td>
</tr>
<tr>
<td>01061</td>
<td>geneva</td>
<td>al</td>
<td>24,253</td>
<td>577</td>
</tr>
<tr>
<td>01067</td>
<td>henry</td>
<td>al</td>
<td>15,302</td>
<td>554</td>
</tr>
<tr>
<td>01069</td>
<td>houston</td>
<td>al</td>
<td>74,632</td>
<td>575</td>
</tr>
<tr>
<td>12005</td>
<td>bay</td>
<td>fl</td>
<td>97,740</td>
<td>747</td>
</tr>
<tr>
<td>12045</td>
<td>gulf</td>
<td>fl</td>
<td>10,658</td>
<td>565</td>
</tr>
<tr>
<td>12063</td>
<td>jackson</td>
<td>fl</td>
<td>39,154</td>
<td>935</td>
</tr>
<tr>
<td>12131</td>
<td>walton</td>
<td>fl</td>
<td>21,300</td>
<td>1,053</td>
</tr>
<tr>
<td>13007</td>
<td>baker</td>
<td>ga</td>
<td>3,808</td>
<td>355</td>
</tr>
<tr>
<td>13099</td>
<td>early</td>
<td>ga</td>
<td>13,158</td>
<td>524</td>
</tr>
<tr>
<td>13131</td>
<td>grady</td>
<td>ga</td>
<td>19,845</td>
<td>466</td>
</tr>
<tr>
<td>13201</td>
<td>miller</td>
<td>ga</td>
<td>7,038</td>
<td>287</td>
</tr>
<tr>
<td>13275</td>
<td>thomas</td>
<td>ga</td>
<td>38,098</td>
<td>541</td>
</tr>
</tbody>
</table>

Total | 412,807 | 7,738

Figure 8. Study area summary.
The 1980 census profile (#1) (Figure 10) provides a wide variety of statistics from the 1980 censuses of population and housing; e.g., population counts by age, sex, or race; families, households; housing units; and housing values. The 1970 census profile (#2) (Figure 11) contains similar information from the "2nd count" and "4th count" 1970 census of population.

The "valado" overview profile (#3) (Figure 12) includes estimates of employment and income multipliers as well as brief summaries of local business activity and educational data.

The short BEA employment/income time series profile (#4) (Figure 13) provides annual income, employment, and population data for the study area. The detailed BEA employment/income time series profile (#5) (Figure 14) also provides annual income, employment, and population data, but the employment and income are given by "type and broad industrial source."

The BLS labor force timeseries profile (#6) (Figure 15) presents monthly and annual estimates of the local labor force as well as employment and unemployment rates.

The detailed employment profile (#7) (Figure 16) provides estimates of employment by industrial division and by several levels of Standard Industrial Classification (SIC) categories for the year 1972.

The export employment profile (#8) (Figure 17) presents estimates of those industrial workers who produce local goods and services for export. They are derived according to the "location quotient" method.13 These estimates also form the basis for computing the EIFS export/base employment multiplier.

The 1977 County Business Patterns profile (#9) (Figure 18), like the detailed employment profile (#7), also contains estimates of industrial employment, but for the year 1977. Besides the year, there are two differences between these two profiles (i.e., #7 and #9) that make their employment estimates not completely comparable. First, the detailed employment estimates given in the detailed employment profile (#7) are complete, while the 1977 County Business Patterns profile (#9) provides only ranges of employment estimates for those industrial categories that have "disclosure" problems. Second, the former profile (#7) uses the 1967 SIC sectoring scheme, whereas the latter profile (#9) employs the 1972 SIC categories.

The population/households/income by tract/minor civil division profile (#10) (Figure 19) presents a variety of data at the sub-county level of geography; e.g., population and household counts, income, per capita income, and income distributions. Only a sample of the information available through this profile is shown in Figure 19 (i.e., options 7 and 9).

The RTV profile (Figure 20) analyzes historic trends in business volume, income, employment, and population to measure the extent of their fluctuations in the past (Figures 20-43 appear at the end of this chapter). The measure of these past fluctuations can, for example, be used as a systematic approach for identifying the significance of economic and social impacts due to military realignment actions or industrial relocations.

The menu of experimental profiles (Figure 21) provides a list of experimental work being carried out within EIFS. These profiles are either temporary, or may be in preparation for entry into the main EIFS menu. Changes in their operating procedures or their appearance can occur at any time; consequently, their description can only reflect the current "state of affairs" at the time of writing.

The CERL-RIMS profile (Figure 22) estimates output (or sales), employment, and income multipliers for industrial sectors within the region of interest. The Regional Industrial Multiplier System (RIMS) is a set of procedures that generates input-output (I-O) type industrial multipliers for any county or multi-county area in the United States. That is, they relate changes in regional gross-output, income, and employment to changes in industry-specific final demand for a region. They are used in regional economic impact analysis just like the multipliers from any regional I-O model. A list of valid industrial codes and titles and their Standard Industrial Classification (SIC) equivalent categories are provided in Appendix I (Industry Names and Codes Available for CERL-RIMS Analysis).

The DLA profile (Figure 23) estimates the regional employment impacts that are likely to occur as a result of contracting activities within the Defense Logistics Agency (DLA). This program correlates relevant information which influences local employment levels, such as geographic location, type of product, technological processes, and existing sales levels, to arrive at a range of possible employment levels appropriate for a particular contract award. The method used to estimate the likely number of employees to be hired because of a contract award or laid off due to a contract rejection is to multiply the estimated contract award by a range of sales per worker ratios, based on the size of firms both within the same industrial classification as the commodity's producer and located in the same geographic area where the commodity is made. Local employment impacts of DLA contracting activities are estimated.

estimated using "input-output" type employment multipliers which are unique to the region as well as specific to the industrial category in which the commodity is manufactured.

The Commercial Activities System (CAS) profile (#71) (Figure 24) provides a cost comparison of performing a military activity "in-house" with that of contracting for the service. As shown in Figure 24, the use of this profile is restricted due to the sensitive nature of its data; for further information about the CAS profile, contact Mr. Ronald Webster or Mrs. Susan Odom at CERL, Commercial (217-352-6511).

The "review of your county list profile" (#75) (Figure 25) lists counties that define the current study area.

The "do-it-yourself population pyramids profile" (#78) (Figure 26) provides a way of examining the age distribution of the population in either graphic (i.e., a population pyramid) or tabular form. Options are available to disaggregate population by county, race, or time. Other population pyramid profiles (#88, #89, #90, and #91) are also available, but do not have the flexibility of profile #78.

Several profiles are only accessible with the use of a Ramtek "color-graphics" terminal and, as a result, cannot be shown here. The BEA graphics demo profile (#83) presents employment and earnings by division-level industrial categories graphically in terms of bar and pie charts. The ROI within-state(s) plot profile (#84) shows a map of the study area inset within a map of the state or states that contain the study area. The ROI plot profile (#85) draws a map of the study area and then "color fills" the map for several county-specific data attributes (e.g., employment, income, per capita income, and population).

The AFLECS Input Editor profiles (#86 and #87) (Figures 27 and 28) are access points to the "loser" and "gainer" versions of the Air Force Local Economic Consequences Study (AFLECS) model. AFLECS was developed by the Air Force Engineering and Services Center (AFESC) to analyze Air Force installation realignment actions and base closures. AFLECS is a highly disaggregated socioeconomic model that provides both temporal and geographic detail in its output results. At present, AFLECS requires substantial quantities of community-specific input detail and numerous hand calculations to use. For more information about AFLECS, see the AFLECS user's manual.

The description profile (#97) (Figure 29) reviews several recent changes in EIFS.

15 The industry-specific employment multipliers used for the DLA profile are based on a combination of methodologies developed in Roger L. Burford and Joseph L. Katz, "On the Estimation of Values Added, Income, and Employment Multipliers Without a Full Input-Output Matrix," and Ronald L. Drake, "A Short-Cut to Estimates of Regional Input-Output Multipliers: Methodology and Evaluation."

What profile? (\(<cr>\) to see list):

Type: For:
1 1980 Census overview
2 1970 Census overview
3 "valado" overview profile
4 short BEA employment/income timeseries
5 detailed BEA employment/income timeseries
6 BLS labor force timeseries
7 detailed employment profile (1972 County Business Patterns)
8 export employment profile (1972 County Business Patterns)
9 1977 County Business Patterns
10 population/households/income by tract/minor civil division
11 to examine and/or change the multiplier(s)
12 the Forecast Models
13 rtv (rational threshold value)
98 menu of experimental profiles
   - to select a different region
quit to leave the program

Disaggregated versions of profiles 1, 2, 4, 5, and 6 are obtained by appending "by county" to the profile number (e.g., "1, by county").

Figure 9. Menu of EIFS profiles.

What profile? (\(<cr>\) to see list): 1

1980 Census Overview

Population Totals
-----------------
Population 412,807
Families 111,658
Households 142,318

Housing Units 159,174

Urban vs Rural
-------------

<table>
<thead>
<tr>
<th></th>
<th>Total</th>
<th>Urban</th>
<th>Non-Rural</th>
<th>Rural</th>
</tr>
</thead>
<tbody>
<tr>
<td>Population</td>
<td>412,807</td>
<td>130,862</td>
<td>96,569</td>
<td>185,376</td>
</tr>
<tr>
<td>Housing Units</td>
<td>163,296</td>
<td>50,283</td>
<td>35,533</td>
<td>77,480</td>
</tr>
</tbody>
</table>

Figure 10. 1980 census overview profile.
### Population

<table>
<thead>
<tr>
<th></th>
<th>Total</th>
<th>Male</th>
<th>Female</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Total</strong></td>
<td>412,807</td>
<td>201,320</td>
<td>211,487</td>
</tr>
<tr>
<td><strong>under 1 year</strong></td>
<td>6,864</td>
<td>3,415</td>
<td>3,449</td>
</tr>
<tr>
<td><strong>1 and 2 years</strong></td>
<td>12,775</td>
<td>6,513</td>
<td>6,262</td>
</tr>
<tr>
<td><strong>3 and 4 years</strong></td>
<td>12,489</td>
<td>6,308</td>
<td>6,181</td>
</tr>
<tr>
<td><strong>5 years</strong></td>
<td>6,467</td>
<td>3,317</td>
<td>3,150</td>
</tr>
<tr>
<td><strong>6 years</strong></td>
<td>6,529</td>
<td>3,376</td>
<td>3,153</td>
</tr>
<tr>
<td><strong>7 to 9 years</strong></td>
<td>21,423</td>
<td>11,024</td>
<td>10,399</td>
</tr>
<tr>
<td><strong>10 to 13 years</strong></td>
<td>27,472</td>
<td>14,205</td>
<td>13,267</td>
</tr>
<tr>
<td><strong>14 years</strong></td>
<td>7,301</td>
<td>3,716</td>
<td>3,585</td>
</tr>
<tr>
<td><strong>15 years</strong></td>
<td>7,889</td>
<td>4,090</td>
<td>3,799</td>
</tr>
<tr>
<td><strong>16 years</strong></td>
<td>8,176</td>
<td>4,225</td>
<td>3,951</td>
</tr>
<tr>
<td><strong>17 years</strong></td>
<td>8,122</td>
<td>4,247</td>
<td>3,875</td>
</tr>
<tr>
<td><strong>18 years</strong></td>
<td>7,640</td>
<td>3,943</td>
<td>3,697</td>
</tr>
<tr>
<td><strong>19 years</strong></td>
<td>7,768</td>
<td>4,063</td>
<td>3,705</td>
</tr>
<tr>
<td><strong>20 years</strong></td>
<td>7,508</td>
<td>3,932</td>
<td>3,576</td>
</tr>
<tr>
<td><strong>21 years</strong></td>
<td>7,242</td>
<td>3,637</td>
<td>3,607</td>
</tr>
<tr>
<td><strong>22 to 24 years</strong></td>
<td>21,906</td>
<td>11,225</td>
<td>10,680</td>
</tr>
<tr>
<td><strong>25 to 29 years</strong></td>
<td>32,521</td>
<td>16,310</td>
<td>16,211</td>
</tr>
<tr>
<td><strong>30 to 34 years</strong></td>
<td>29,620</td>
<td>14,866</td>
<td>14,754</td>
</tr>
<tr>
<td><strong>35 to 44 years</strong></td>
<td>45,763</td>
<td>21,933</td>
<td>23,830</td>
</tr>
<tr>
<td><strong>45 to 54 years</strong></td>
<td>41,772</td>
<td>20,076</td>
<td>21,696</td>
</tr>
<tr>
<td><strong>55 to 59 years</strong></td>
<td>20,287</td>
<td>9,423</td>
<td>10,864</td>
</tr>
<tr>
<td><strong>60 to 61 years</strong></td>
<td>7,728</td>
<td>3,593</td>
<td>4,135</td>
</tr>
<tr>
<td><strong>62 to 64 years</strong></td>
<td>10,642</td>
<td>4,815</td>
<td>5,827</td>
</tr>
<tr>
<td><strong>65 to 74 years</strong></td>
<td>30,322</td>
<td>13,133</td>
<td>17,189</td>
</tr>
<tr>
<td><strong>75 to 84 years</strong></td>
<td>13,144</td>
<td>4,890</td>
<td>8,254</td>
</tr>
<tr>
<td><strong>Over 84 years</strong></td>
<td>3,437</td>
<td>1,044</td>
<td>2,393</td>
</tr>
</tbody>
</table>

### Race

<table>
<thead>
<tr>
<th>Race</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Total</strong></td>
<td>412,807</td>
</tr>
<tr>
<td><strong>White</strong></td>
<td>317,590</td>
</tr>
<tr>
<td><strong>Black</strong></td>
<td>89,899</td>
</tr>
<tr>
<td>Indian, Eskimo, Aleut</td>
<td>1,521</td>
</tr>
<tr>
<td>Indian</td>
<td>1,515</td>
</tr>
<tr>
<td>Eskimo</td>
<td>4</td>
</tr>
<tr>
<td>Aleut</td>
<td>2</td>
</tr>
<tr>
<td>Asian and Pacific Islander</td>
<td>2,127</td>
</tr>
<tr>
<td>Japanese</td>
<td>370</td>
</tr>
<tr>
<td>Chinese</td>
<td>124</td>
</tr>
<tr>
<td>Filipino</td>
<td>357</td>
</tr>
<tr>
<td>Korean</td>
<td>367</td>
</tr>
<tr>
<td>Asian Indian</td>
<td>112</td>
</tr>
<tr>
<td>Vietnamese</td>
<td>680</td>
</tr>
<tr>
<td>Hawaiian</td>
<td>69</td>
</tr>
<tr>
<td>Guaman</td>
<td>35</td>
</tr>
<tr>
<td>Samoan</td>
<td>13</td>
</tr>
<tr>
<td>Other</td>
<td>1,670</td>
</tr>
</tbody>
</table>

Figure 10. (Cont'd)
## Marital Status

<table>
<thead>
<tr>
<th></th>
<th>Total</th>
<th>Male</th>
<th>Female</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total</td>
<td>311,487</td>
<td>149,446</td>
<td>162,041</td>
</tr>
<tr>
<td>Single</td>
<td>65,834</td>
<td>37,923</td>
<td>27,911</td>
</tr>
<tr>
<td>Now Married</td>
<td>192,405</td>
<td>96,656</td>
<td>96,749</td>
</tr>
<tr>
<td>Separated</td>
<td>7,394</td>
<td>2,928</td>
<td>4,466</td>
</tr>
<tr>
<td>Widowed</td>
<td>26,678</td>
<td>3,803</td>
<td>22,875</td>
</tr>
<tr>
<td>Divorced</td>
<td>19,176</td>
<td>8,136</td>
<td>11,040</td>
</tr>
</tbody>
</table>

## Housing

<table>
<thead>
<tr>
<th></th>
<th>Total</th>
<th>Occupied</th>
<th>Vacant</th>
<th>Persons</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total</td>
<td>159,175</td>
<td>142,318</td>
<td>15,856</td>
<td>403,074</td>
</tr>
<tr>
<td>Owned</td>
<td>102,112</td>
<td>100,083</td>
<td>2,029</td>
<td>285,770</td>
</tr>
<tr>
<td>Rented</td>
<td>49,124</td>
<td>42,235</td>
<td>6,889</td>
<td>117,304</td>
</tr>
<tr>
<td>Other</td>
<td>7,938</td>
<td>7,938</td>
<td>7,938</td>
<td></td>
</tr>
</tbody>
</table>

## Housing Value (Owner-Occupied)

<table>
<thead>
<tr>
<th>Value Range</th>
<th>Total</th>
<th>Occupied</th>
<th>Vacant</th>
</tr>
</thead>
<tbody>
<tr>
<td>less than $10,000</td>
<td>7,709</td>
<td></td>
<td></td>
</tr>
<tr>
<td>$10,000 to $14,999</td>
<td>6,256</td>
<td></td>
<td></td>
</tr>
<tr>
<td>$15,000 to $19,999</td>
<td>6,811</td>
<td></td>
<td></td>
</tr>
<tr>
<td>$20,000 to $24,999</td>
<td>7,866</td>
<td></td>
<td></td>
</tr>
<tr>
<td>$25,000 to $29,999</td>
<td>7,564</td>
<td></td>
<td></td>
</tr>
<tr>
<td>$30,000 to $34,999</td>
<td>6,927</td>
<td></td>
<td></td>
</tr>
<tr>
<td>$35,000 to $39,999</td>
<td>5,490</td>
<td></td>
<td></td>
</tr>
<tr>
<td>$40,000 to $49,999</td>
<td>8,108</td>
<td></td>
<td></td>
</tr>
<tr>
<td>$50,000 to $79,999</td>
<td>10,844</td>
<td></td>
<td></td>
</tr>
<tr>
<td>$80,000 to $99,999</td>
<td>1,511</td>
<td></td>
<td></td>
</tr>
<tr>
<td>$100,000 to $149,999</td>
<td>1,111</td>
<td></td>
<td></td>
</tr>
<tr>
<td>$150,000 to $199,999</td>
<td>235</td>
<td></td>
<td></td>
</tr>
<tr>
<td>$200,000 or more</td>
<td>173</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Aggregate Value</th>
<th>Total</th>
<th>Occupied</th>
<th>Vacant</th>
</tr>
</thead>
<tbody>
<tr>
<td>Units</td>
<td>$2,506,861</td>
<td>$2,452,182</td>
<td>$54,679 ($000)</td>
</tr>
<tr>
<td>Mean Value</td>
<td>$34,716</td>
<td>$34,731</td>
<td>$34,047</td>
</tr>
</tbody>
</table>

Figure 10. (Cont'd)
<table>
<thead>
<tr>
<th>Contract Rent</th>
<th>Occupied</th>
<th>Vacant</th>
<th>Total Occupied Vacant</th>
</tr>
</thead>
<tbody>
<tr>
<td>no cash rent</td>
<td>4,261</td>
<td></td>
<td>$5,831,032</td>
</tr>
<tr>
<td>less than $50</td>
<td>5,206</td>
<td></td>
<td>$4,333,769</td>
</tr>
<tr>
<td>$50 to $99</td>
<td>8,852</td>
<td></td>
<td>$1,497,263</td>
</tr>
<tr>
<td>$100 to $119</td>
<td>2,988</td>
<td></td>
<td></td>
</tr>
<tr>
<td>$120 to $139</td>
<td>3,131</td>
<td></td>
<td></td>
</tr>
<tr>
<td>$140 to $149</td>
<td>1,029</td>
<td></td>
<td></td>
</tr>
<tr>
<td>$150 to $159</td>
<td>2,062</td>
<td></td>
<td></td>
</tr>
<tr>
<td>$160 to $169</td>
<td>1,068</td>
<td></td>
<td></td>
</tr>
<tr>
<td>$170 to $199</td>
<td>2,616</td>
<td></td>
<td></td>
</tr>
<tr>
<td>$200 to $249</td>
<td>4,166</td>
<td></td>
<td></td>
</tr>
<tr>
<td>$250 to $299</td>
<td>1,526</td>
<td></td>
<td></td>
</tr>
<tr>
<td>$300 to $399</td>
<td>788</td>
<td></td>
<td></td>
</tr>
<tr>
<td>$400 to $499</td>
<td>111</td>
<td></td>
<td></td>
</tr>
<tr>
<td>$500 or more</td>
<td>30</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Mean Rent

<table>
<thead>
<tr>
<th>Occupied</th>
<th>Vacant</th>
<th>Total Occupied Vacant</th>
</tr>
</thead>
<tbody>
<tr>
<td>Units 40,265</td>
<td>$145</td>
<td>$129</td>
</tr>
</tbody>
</table>

Source: Bureau of the Census, Census of Population and Housing, 1980

Figure 10. (Cont'd)

What profile? (<cr> to see list): 2

1970 Census Overview

CITY COUNTY DATA BOOK

Land area: 7,738 sq mi
Total population: 355,885
Pop density: 45.99

Business Volume -- 1967

| Manufacturing: | $165,500,000.00 |
| Retail:        | $446,251,000.00 |
| Service:       | $49,389,000.00  |
| Wholesale:     | $335,100,000.00 |

CENSUS OF BUSINESS, 1972

| Dir gen expend: | $117,775,000.00 |
| Educational expend: | $63,504,000.00 |
| Total assessed value: | $696,899,000.00 |
| Assessed to sales price ratio: | 48.44 |
| Property taxes: | $23,998,000.00 |
| Value added -> mfgr: | $244,000,000.00 |
| Retail sales: | $696,631,000.00 |
| Service receipts: | $102,697,000.00 |
| Wholesale receipts: | $648,336,000.00 |

Figure 11. 1970 census overview profile.
### Population by age and sex:

<table>
<thead>
<tr>
<th>Age</th>
<th>Male</th>
<th>Female</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt; 1</td>
<td>3,535</td>
<td>3,291</td>
<td>6,826</td>
</tr>
<tr>
<td>1</td>
<td>3,270</td>
<td>3,088</td>
<td>6,358</td>
</tr>
<tr>
<td>2</td>
<td>2,956</td>
<td>2,879</td>
<td>5,835</td>
</tr>
<tr>
<td>3</td>
<td>3,142</td>
<td>3,077</td>
<td>6,219</td>
</tr>
<tr>
<td>4</td>
<td>3,287</td>
<td>3,171</td>
<td>6,458</td>
</tr>
<tr>
<td>5</td>
<td>3,530</td>
<td>3,410</td>
<td>6,940</td>
</tr>
<tr>
<td>6</td>
<td>3,651</td>
<td>3,488</td>
<td>7,139</td>
</tr>
<tr>
<td>7</td>
<td>3,729</td>
<td>3,383</td>
<td>7,112</td>
</tr>
<tr>
<td>8</td>
<td>3,649</td>
<td>3,531</td>
<td>7,180</td>
</tr>
<tr>
<td>9</td>
<td>3,734</td>
<td>3,579</td>
<td>7,313</td>
</tr>
<tr>
<td>10</td>
<td>4,070</td>
<td>3,857</td>
<td>7,927</td>
</tr>
<tr>
<td>11</td>
<td>3,769</td>
<td>3,635</td>
<td>7,404</td>
</tr>
<tr>
<td>12</td>
<td>3,783</td>
<td>3,718</td>
<td>7,501</td>
</tr>
<tr>
<td>13</td>
<td>3,942</td>
<td>3,644</td>
<td>7,586</td>
</tr>
<tr>
<td>14</td>
<td>3,874</td>
<td>3,643</td>
<td>7,517</td>
</tr>
<tr>
<td>15</td>
<td>4,036</td>
<td>3,579</td>
<td>7,615</td>
</tr>
<tr>
<td>16</td>
<td>3,814</td>
<td>3,567</td>
<td>7,381</td>
</tr>
<tr>
<td>17</td>
<td>3,869</td>
<td>3,486</td>
<td>7,355</td>
</tr>
<tr>
<td>18</td>
<td>3,644</td>
<td>3,063</td>
<td>6,707</td>
</tr>
<tr>
<td>19</td>
<td>3,676</td>
<td>2,987</td>
<td>6,663</td>
</tr>
<tr>
<td>20</td>
<td>4,122</td>
<td>3,018</td>
<td>7,140</td>
</tr>
<tr>
<td>21-25</td>
<td>16,758</td>
<td>14,064</td>
<td>30,822</td>
</tr>
<tr>
<td>26-30</td>
<td>10,951</td>
<td>11,278</td>
<td>22,229</td>
</tr>
<tr>
<td>31-35</td>
<td>9,139</td>
<td>9,977</td>
<td>19,116</td>
</tr>
<tr>
<td>36-40</td>
<td>9,469</td>
<td>9,993</td>
<td>19,462</td>
</tr>
<tr>
<td>41-45</td>
<td>9,081</td>
<td>9,900</td>
<td>18,981</td>
</tr>
<tr>
<td>46-50</td>
<td>9,238</td>
<td>9,936</td>
<td>19,174</td>
</tr>
<tr>
<td>51-55</td>
<td>8,183</td>
<td>9,032</td>
<td>17,215</td>
</tr>
<tr>
<td>56-60</td>
<td>7,949</td>
<td>8,839</td>
<td>16,788</td>
</tr>
<tr>
<td>61-65</td>
<td>6,614</td>
<td>7,748</td>
<td>14,362</td>
</tr>
<tr>
<td>66-70</td>
<td>5,012</td>
<td>6,434</td>
<td>11,446</td>
</tr>
<tr>
<td>71-75</td>
<td>3,335</td>
<td>4,631</td>
<td>7,966</td>
</tr>
<tr>
<td>76-80</td>
<td>2,155</td>
<td>3,169</td>
<td>5,324</td>
</tr>
<tr>
<td>&gt; 80</td>
<td>1,872</td>
<td>3,952</td>
<td>4,824</td>
</tr>
</tbody>
</table>

---

Figure 11. (Cont'd)
Aggregate $ monthly contract rent --
renter occupied  1,560,825.00
vacant for rent:  226,050.00

Count of occupied units by tenure --
Owned or being bought:  70,809
Cooperative or condo:  62
Rented for cash rent:  27,431
Rented for no cash:  3,536

4th COUNT POPULATION, 1970

Population enrolled in school by age (15%) --

<table>
<thead>
<tr>
<th>age</th>
<th>students</th>
</tr>
</thead>
<tbody>
<tr>
<td>3-4</td>
<td>956</td>
</tr>
<tr>
<td>5-6</td>
<td>8,067</td>
</tr>
<tr>
<td>7-13</td>
<td>49,907</td>
</tr>
<tr>
<td>14-15</td>
<td>14,357</td>
</tr>
<tr>
<td>16-17</td>
<td>11,893</td>
</tr>
<tr>
<td>18-19</td>
<td>5,320</td>
</tr>
<tr>
<td>20-21</td>
<td>1,334</td>
</tr>
<tr>
<td>22-24</td>
<td>1,054</td>
</tr>
<tr>
<td>25-34</td>
<td>1,884</td>
</tr>
</tbody>
</table>

Figure 11. (Cont'd)
### Count of employed persons by industry

<table>
<thead>
<tr>
<th>Industry</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agriculture, forestry, fisheries</td>
<td>10,739</td>
</tr>
<tr>
<td>Mining</td>
<td>381</td>
</tr>
<tr>
<td>Construction</td>
<td>9,041</td>
</tr>
<tr>
<td>Furniture and lumber and wood products</td>
<td>3,134</td>
</tr>
<tr>
<td>Primary metal industries</td>
<td>152</td>
</tr>
<tr>
<td>Fabricated metal industries</td>
<td>386</td>
</tr>
<tr>
<td>Machinery, except electrical</td>
<td>462</td>
</tr>
<tr>
<td>Electrical machinery, equipment, and supplies</td>
<td>130</td>
</tr>
<tr>
<td>Motor vehicles and other trans. equipment</td>
<td>1,830</td>
</tr>
<tr>
<td>Other durable goods</td>
<td>1,445</td>
</tr>
<tr>
<td>Food and kindred products</td>
<td>3,103</td>
</tr>
<tr>
<td>Textile mill and other textile products</td>
<td>6,727</td>
</tr>
<tr>
<td>Printing, publishing, and allied industries</td>
<td>655</td>
</tr>
<tr>
<td>Chemical and allied products</td>
<td>637</td>
</tr>
<tr>
<td>Other nondurable goods</td>
<td>4,158</td>
</tr>
<tr>
<td>Railroads and railway express service</td>
<td>571</td>
</tr>
<tr>
<td>Trucking service and warehousing</td>
<td>1,108</td>
</tr>
<tr>
<td>Other transportation</td>
<td>3,430</td>
</tr>
<tr>
<td>Communications</td>
<td>1,568</td>
</tr>
<tr>
<td>Utilities and sanitary services</td>
<td>2,066</td>
</tr>
<tr>
<td>Wholesale trade</td>
<td>3,918</td>
</tr>
<tr>
<td>Food, bakery, and dairy stores</td>
<td>3,423</td>
</tr>
<tr>
<td>Eating and drinking places</td>
<td>3,051</td>
</tr>
<tr>
<td>General merchandise retailing</td>
<td>2,943</td>
</tr>
<tr>
<td>Motor vehicles retailing and service stations</td>
<td>3,608</td>
</tr>
<tr>
<td>Other retail trade</td>
<td>7,086</td>
</tr>
<tr>
<td>Banking and credit agencies</td>
<td>1,397</td>
</tr>
<tr>
<td>Insurance, real estate, and other finance</td>
<td>1,980</td>
</tr>
<tr>
<td>Business services</td>
<td>839</td>
</tr>
<tr>
<td>Repair services</td>
<td>1,613</td>
</tr>
<tr>
<td>Private households</td>
<td>4,557</td>
</tr>
<tr>
<td>Other personal services</td>
<td>4,593</td>
</tr>
<tr>
<td>Entertainment and recreation services</td>
<td>661</td>
</tr>
<tr>
<td>Hospitals</td>
<td>4,099</td>
</tr>
<tr>
<td>Med. and other health services except hospitals</td>
<td>2,024</td>
</tr>
<tr>
<td>Public education</td>
<td>6,567</td>
</tr>
<tr>
<td>Private education</td>
<td>1,003</td>
</tr>
<tr>
<td>Other education and kindred services</td>
<td>496</td>
</tr>
<tr>
<td>Welfare, religious, and nonprofit organizations</td>
<td>1,416</td>
</tr>
<tr>
<td>Legal, engineering, and misc. professional services</td>
<td>2,037</td>
</tr>
<tr>
<td>Public administration</td>
<td>7,754</td>
</tr>
</tbody>
</table>

**Source:** Bureau of the Census

- Census of Population and Housing, 2nd and 4th Counts, 1970
- County and City Data Book, 1967
- Census Of Governments, 1972
- Economic Censuses, 1972

*Figure 11. (Cont'd)*

33
What profile? (<cr> to see list): 3
Calculating Multiplier.
Employment Multiplier: 2.1221
Income Multiplier: 1.7604

"Valado" Overview Profile

Export employment multiplier: 2.122
Export income multiplier: 1.658
Constant relating tpi to tbv: 0.6339
Value added per empl $ 10,081.00

Housing:
Total assessed valuation: $ 696,899,000.00
Assessed to market value ratio: 46.44%
Property tax rate: 3.44%
Average rent: $ 57.19

Business volume: 1967 1972
Manufacturing: $ 165,500,000.00 $ 244,200,000.00
Retail: $ 446,251,000.00 $ 696,631,000.00
Service: $ 49,389,000.00 $ 102,697,000.00
Wholesale: $ 335,108,000.00 $ 648,336,000.00
Total $ 996,248,000.00 $1,691,864,000.00

EDUCATION

Students aged 3 to 19: 90,500
Children aged 0 to 19: 141,036
Percent attending school: 64.17%
Cost of education per student: $872.49
Percent federal aid: 16.17%
Percent state aid: 54.15%

County operating budget for non-education: $ 52,269,000.00
State sales tax rate: 3.83%
Percent of sales tax retained locally: 51.14%

Figure 12. "Valado" overview profile.
What profile? (<cr> to see list): 4
Short BEA Timeseries Profile

Income:

<table>
<thead>
<tr>
<th>year</th>
<th>non farm</th>
<th>private</th>
<th>government</th>
<th>personal</th>
</tr>
</thead>
<tbody>
<tr>
<td>1959</td>
<td>308,765,000</td>
<td>211,322,000</td>
<td>97,443,000</td>
<td>394,369,000</td>
</tr>
<tr>
<td>1962</td>
<td>345,717,000</td>
<td>234,993,000</td>
<td>110,724,000</td>
<td>449,421,000</td>
</tr>
<tr>
<td>1965</td>
<td>451,896,000</td>
<td>312,559,000</td>
<td>139,337,000</td>
<td>579,799,000</td>
</tr>
<tr>
<td>1966</td>
<td>518,454,000</td>
<td>344,483,000</td>
<td>173,971,000</td>
<td>647,262,000</td>
</tr>
<tr>
<td>1967</td>
<td>556,933,000</td>
<td>371,366,000</td>
<td>185,567,000</td>
<td>703,384,000</td>
</tr>
<tr>
<td>1968</td>
<td>623,924,000</td>
<td>410,564,000</td>
<td>213,360,000</td>
<td>781,286,000</td>
</tr>
<tr>
<td>1969</td>
<td>700,064,000</td>
<td>456,532,000</td>
<td>243,532,000</td>
<td>874,814,000</td>
</tr>
<tr>
<td>1970</td>
<td>782,814,000</td>
<td>499,379,000</td>
<td>283,435,000</td>
<td>979,883,000</td>
</tr>
<tr>
<td>1971</td>
<td>836,576,000</td>
<td>534,151,000</td>
<td>302,425,000</td>
<td>1,071,241,000</td>
</tr>
<tr>
<td>1972</td>
<td>877,861,000</td>
<td>589,628,000</td>
<td>288,233,000</td>
<td>1,144,348,000</td>
</tr>
<tr>
<td>1973</td>
<td>994,081,000</td>
<td>689,158,000</td>
<td>304,923,000</td>
<td>1,332,582,000</td>
</tr>
<tr>
<td>1974</td>
<td>1,101,994,000</td>
<td>766,241,000</td>
<td>335,753,000</td>
<td>1,497,658,000</td>
</tr>
<tr>
<td>1975</td>
<td>1,155,180,000</td>
<td>784,779,000</td>
<td>370,401,000</td>
<td>1,623,936,000</td>
</tr>
<tr>
<td>1976</td>
<td>1,314,916,000</td>
<td>916,533,000</td>
<td>398,383,000</td>
<td>1,805,737,000</td>
</tr>
<tr>
<td>1977</td>
<td>1,440,043,000</td>
<td>1,020,641,000</td>
<td>419,402,000</td>
<td>1,948,703,000</td>
</tr>
<tr>
<td>1978</td>
<td>1,618,344,000</td>
<td>1,151,697,000</td>
<td>466,647,000</td>
<td>2,222,621,000</td>
</tr>
</tbody>
</table>

Employment and Population:

<table>
<thead>
<tr>
<th>year</th>
<th>employment</th>
<th>population</th>
</tr>
</thead>
<tbody>
<tr>
<td>1959</td>
<td>317,672</td>
<td></td>
</tr>
<tr>
<td>1962</td>
<td>333,470</td>
<td></td>
</tr>
<tr>
<td>1965</td>
<td>333,529</td>
<td></td>
</tr>
<tr>
<td>1966</td>
<td>343,407</td>
<td></td>
</tr>
<tr>
<td>1967</td>
<td>138,547</td>
<td>345,390</td>
</tr>
<tr>
<td>1968</td>
<td>141,705</td>
<td>349,193</td>
</tr>
<tr>
<td>1969</td>
<td>147,390</td>
<td>351,156</td>
</tr>
<tr>
<td>1970</td>
<td>151,179</td>
<td>357,248</td>
</tr>
<tr>
<td>1971</td>
<td>150,135</td>
<td>363,464</td>
</tr>
<tr>
<td>1972</td>
<td>147,353</td>
<td>364,852</td>
</tr>
<tr>
<td>1973</td>
<td>154,329</td>
<td>365,741</td>
</tr>
<tr>
<td>1974</td>
<td>158,214</td>
<td>375,758</td>
</tr>
<tr>
<td>1975</td>
<td>157,685</td>
<td>385,008</td>
</tr>
<tr>
<td>1976</td>
<td>162,758</td>
<td>387,376</td>
</tr>
<tr>
<td>1977</td>
<td>167,811</td>
<td>390,626</td>
</tr>
<tr>
<td>1978</td>
<td>174,331</td>
<td>395,058</td>
</tr>
</tbody>
</table>

Source: Bureau of Economic Analysis

Figure 13. Short BEA employment/income timeseries profile.
What profile? (<cr> to see list): 5
Detailed BEA Timeseries Profile

Employment by Broad Industrial Sources
Full/Part-time Wage/Salary Employment Plus Number of Proprietors

<table>
<thead>
<tr>
<th>Industry</th>
<th>1978</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Employment</td>
<td>174,331</td>
</tr>
<tr>
<td>Number of Proprietors</td>
<td>22,031</td>
</tr>
<tr>
<td>Farm Proprietors</td>
<td>10,549</td>
</tr>
<tr>
<td>Proprietors</td>
<td>1,482</td>
</tr>
<tr>
<td>Total Wage &amp; Salary Employment</td>
<td>152,300</td>
</tr>
<tr>
<td>Farm</td>
<td>4,821</td>
</tr>
<tr>
<td>Non-Farm</td>
<td>147,478</td>
</tr>
<tr>
<td>Private</td>
<td>104,616</td>
</tr>
<tr>
<td>Ag Serv., For., Fish., &amp; Other</td>
<td>179 d</td>
</tr>
<tr>
<td>Mining</td>
<td>13</td>
</tr>
<tr>
<td>Construction</td>
<td>9,964</td>
</tr>
<tr>
<td>Manufacturing</td>
<td>30,867</td>
</tr>
<tr>
<td>Non-Durable Goods</td>
<td>18,863 d</td>
</tr>
<tr>
<td>Durable Goods</td>
<td>11,641 d</td>
</tr>
<tr>
<td>Transportation &amp; Public Utils.</td>
<td>5,488 d</td>
</tr>
<tr>
<td>Wholesale Trade</td>
<td>6,512 d</td>
</tr>
<tr>
<td>Retail Trade</td>
<td>22,594</td>
</tr>
<tr>
<td>Finance, Ins., &amp; Real Estate</td>
<td>4,541 d</td>
</tr>
<tr>
<td>Services</td>
<td>22,432 d</td>
</tr>
<tr>
<td>Government</td>
<td>42,863</td>
</tr>
<tr>
<td>Federal Civilian</td>
<td>7,503</td>
</tr>
<tr>
<td>Federal Military</td>
<td>12,564</td>
</tr>
<tr>
<td>State &amp; Local</td>
<td>22,788</td>
</tr>
</tbody>
</table>

Figure 14. Detailed BEA employment/income timeseries profile.
Income by Type and by Broad Industrial Sources

Derivation of Personal Income by Place of Residence
(Thousands of Dollars)

<table>
<thead>
<tr>
<th>Source</th>
<th>1978</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wage &amp; Salary Disbursements</td>
<td>1,413,698</td>
</tr>
<tr>
<td>Other Labor Income</td>
<td>116,462</td>
</tr>
<tr>
<td>Proprietors' Income</td>
<td>201,754</td>
</tr>
<tr>
<td>Farm</td>
<td>88,539</td>
</tr>
<tr>
<td>Non-Farm</td>
<td>13,215</td>
</tr>
<tr>
<td>Farm</td>
<td>113,570</td>
</tr>
<tr>
<td>Non-Farm</td>
<td>1,618,344</td>
</tr>
<tr>
<td>Private</td>
<td>1,151,697</td>
</tr>
<tr>
<td>Ag Serv., For., Fish., &amp; Other</td>
<td>1,678 d</td>
</tr>
<tr>
<td>Mining</td>
<td>205 d</td>
</tr>
<tr>
<td>Construction</td>
<td>149,308</td>
</tr>
<tr>
<td>Manufacturing</td>
<td>366,855</td>
</tr>
<tr>
<td>Non-Durable Goods</td>
<td>213,875 d</td>
</tr>
<tr>
<td>Durable Goods</td>
<td>150,653 d</td>
</tr>
<tr>
<td>Transportation and Public Utilities.</td>
<td>93,831 d</td>
</tr>
<tr>
<td>Wholesale Trade</td>
<td>80,082 d</td>
</tr>
<tr>
<td>Retail Trade</td>
<td>185,190</td>
</tr>
<tr>
<td>Finance, Ins., &amp; Real Estate</td>
<td>59,705 d</td>
</tr>
<tr>
<td>Services</td>
<td>193,682 d</td>
</tr>
<tr>
<td>Government</td>
<td>466,647</td>
</tr>
<tr>
<td>Federal Civilian</td>
<td>125,024</td>
</tr>
<tr>
<td>Federal Military</td>
<td>132,817</td>
</tr>
<tr>
<td>State &amp; Local</td>
<td>208,806</td>
</tr>
<tr>
<td>Total Income by Place of Work</td>
<td>1,731,914</td>
</tr>
<tr>
<td>(-) Social Insurance</td>
<td>86,772</td>
</tr>
<tr>
<td>Net Income by Place of Work</td>
<td>1,645,142</td>
</tr>
<tr>
<td>(++) Residence Adjustment</td>
<td>-33,894</td>
</tr>
<tr>
<td>Net Income by Place of Residence</td>
<td>1,611,248</td>
</tr>
<tr>
<td>(++) Dividends, Interest, &amp; Rent</td>
<td>227,532</td>
</tr>
<tr>
<td>(++) Transfer Payment</td>
<td>383,841</td>
</tr>
<tr>
<td>Personal Income by Place of Resid.</td>
<td>2,222,621</td>
</tr>
<tr>
<td>Per Capita Personal Income ($)</td>
<td>5,802</td>
</tr>
<tr>
<td>Total Population</td>
<td>395,058</td>
</tr>
</tbody>
</table>

Source: Bureau of Economic Analysis

d indicates a full or partial nondisclosure
1 indicates rounding of small value.

Figure 14. (Cont'd)
What profile? (<cr> to see list): 6

BLS Labor Force Timeseries Profile

<table>
<thead>
<tr>
<th>Date</th>
<th>Labor Force</th>
<th>Employment Number</th>
<th>Employment Rate</th>
<th>Unemployment Number</th>
<th>Unemployment Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jan '78</td>
<td>157,413</td>
<td>144,177</td>
<td>91.59%</td>
<td>13,236</td>
<td>8.41%</td>
</tr>
<tr>
<td>Feb '78</td>
<td>156,355</td>
<td>145,992</td>
<td>93.37%</td>
<td>10,363</td>
<td>6.63%</td>
</tr>
<tr>
<td>Mar '78</td>
<td>158,983</td>
<td>148,559</td>
<td>93.44%</td>
<td>10,424</td>
<td>6.56%</td>
</tr>
<tr>
<td>Apr '78</td>
<td>163,508</td>
<td>153,725</td>
<td>94.02%</td>
<td>9,783</td>
<td>5.98%</td>
</tr>
<tr>
<td>May '78</td>
<td>165,026</td>
<td>155,692</td>
<td>94.34%</td>
<td>9,334</td>
<td>5.66%</td>
</tr>
<tr>
<td>Jun '78</td>
<td>170,300</td>
<td>159,614</td>
<td>93.78%</td>
<td>10,686</td>
<td>6.27%</td>
</tr>
<tr>
<td>Jul '78</td>
<td>172,124</td>
<td>160,633</td>
<td>93.32%</td>
<td>11,491</td>
<td>6.68%</td>
</tr>
<tr>
<td>Aug '78</td>
<td>171,030</td>
<td>160,816</td>
<td>94.03%</td>
<td>10,214</td>
<td>5.97%</td>
</tr>
<tr>
<td>Sep '78</td>
<td>172,038</td>
<td>161,385</td>
<td>93.81%</td>
<td>10,653</td>
<td>6.18%</td>
</tr>
<tr>
<td>Oct '78</td>
<td>171,752</td>
<td>161,049</td>
<td>93.77%</td>
<td>10,703</td>
<td>6.23%</td>
</tr>
<tr>
<td>Nov '78</td>
<td>166,908</td>
<td>157,001</td>
<td>94.06%</td>
<td>9,907</td>
<td>5.94%</td>
</tr>
<tr>
<td>Dec '78</td>
<td>165,417</td>
<td>154,714</td>
<td>93.53%</td>
<td>10,703</td>
<td>6.47%</td>
</tr>
</tbody>
</table>

Annual Average: 165,905 155,279 93.60% 10,626 6.40%

Source: Bureau of Labor Statistics

Figure 15. BLS labor force timeseries profile.
What profile? (<cr> to see list): 7
What level of detail? (type ? for help): ?

type 0 for total employment
  type 1 for division level and above
  type 2 for 2-digit level and above
  type 3 for 3-digit level and above
  type 4 for 4-digit level and above
  type - to abort this profile

What level of detail? (type ? for help): 2

Count of employed persons by detailed industry

<table>
<thead>
<tr>
<th>SIC</th>
<th>Employment Industry</th>
<th>113,549 total</th>
</tr>
</thead>
<tbody>
<tr>
<td>01--</td>
<td>farm workers (BEA)</td>
<td>3,951</td>
</tr>
<tr>
<td>07--</td>
<td>agric. srvcs forestry fisheries</td>
<td>756</td>
</tr>
<tr>
<td>0700</td>
<td>agric. srvcs &amp; hunting</td>
<td>173</td>
</tr>
<tr>
<td>0800</td>
<td>forestry</td>
<td>181</td>
</tr>
<tr>
<td>0900</td>
<td>fisheries</td>
<td>117</td>
</tr>
<tr>
<td>10--</td>
<td>mining</td>
<td>370</td>
</tr>
<tr>
<td>1400</td>
<td>nonmetallic minerals exc. fuels</td>
<td>176</td>
</tr>
<tr>
<td>15--</td>
<td>contract construction</td>
<td>6,532</td>
</tr>
<tr>
<td>1500</td>
<td>general building contractors</td>
<td>3,030</td>
</tr>
<tr>
<td>6400</td>
<td>insur. agents brokers &amp; service</td>
<td>228</td>
</tr>
<tr>
<td>6500</td>
<td>real estate</td>
<td>669</td>
</tr>
<tr>
<td>70--</td>
<td>services</td>
<td>9,381</td>
</tr>
<tr>
<td>7000</td>
<td>hotels &amp; other lodging places</td>
<td>1,394</td>
</tr>
<tr>
<td>7200</td>
<td>personal srvcs</td>
<td>1,316</td>
</tr>
<tr>
<td>7300</td>
<td>misc. business srvcs</td>
<td>1,088</td>
</tr>
<tr>
<td>7500</td>
<td>auto repair srvcs &amp; garages</td>
<td>469</td>
</tr>
<tr>
<td>7600</td>
<td>misc. repair srvcs</td>
<td>168</td>
</tr>
<tr>
<td>7900</td>
<td>amusement &amp; recretn. srvcs n.e.c.</td>
<td>332</td>
</tr>
<tr>
<td>8000</td>
<td>medical &amp; other health srvcs</td>
<td>1,905</td>
</tr>
<tr>
<td>8100</td>
<td>legal srvcs</td>
<td>88</td>
</tr>
<tr>
<td>8200</td>
<td>educ. srvcs</td>
<td>160</td>
</tr>
<tr>
<td>8600</td>
<td>nonprofit membership organizations</td>
<td>646</td>
</tr>
<tr>
<td>8900</td>
<td>misc. srvcs</td>
<td>229</td>
</tr>
<tr>
<td>91--</td>
<td>total federal (BEA)</td>
<td>21,099</td>
</tr>
<tr>
<td>92--</td>
<td>state &amp; local (BEA)</td>
<td>17,540</td>
</tr>
<tr>
<td>99--</td>
<td>unclassified establishments</td>
<td>717</td>
</tr>
</tbody>
</table>

Source: Bureau of the Census, County Business Patterns, 1972

Figure 16. Detailed employment profile.
What profile? (<cr> to see list): 8

What level of detail? (type ? for help): 2

Export (Basic) Employment Profile

symbols:
Eir is local employment in industry i
E*r is total local employment
E*i is national employment in industry i
E** is total national employment

Xir is local export employment in industry i
X*r is total local export employment

LQ+ is a pseudo location quotient derived from Xir

all ratios are percentages.

<table>
<thead>
<tr>
<th>SIC</th>
<th>Eir</th>
<th>Xir</th>
<th>LQ+</th>
<th>Xir/Eir</th>
<th>Xir/E*r</th>
<th>Xir/X*r</th>
<th>Eir/E*r</th>
<th>Eir/E**</th>
</tr>
</thead>
<tbody>
<tr>
<td>----</td>
<td>113549</td>
<td>53507</td>
<td>1.891</td>
<td>47.122</td>
<td>47.122</td>
<td>100.000</td>
<td>100.000</td>
<td>100.000</td>
</tr>
<tr>
<td>01--</td>
<td>3951</td>
<td>2195</td>
<td>2.269</td>
<td>55.544</td>
<td>1.933</td>
<td>4.101</td>
<td>3.400</td>
<td>1.547</td>
</tr>
<tr>
<td>07--</td>
<td>736</td>
<td>548</td>
<td>3.363</td>
<td>72.514</td>
<td>0.483</td>
<td>1.025</td>
<td>0.666</td>
<td>0.274</td>
</tr>
<tr>
<td>0800</td>
<td>181</td>
<td>171</td>
<td>1.668</td>
<td>94.496</td>
<td>0.151</td>
<td>0.320</td>
<td>0.195</td>
<td>0.099</td>
</tr>
<tr>
<td>0900</td>
<td>117</td>
<td>92</td>
<td>4.723</td>
<td>78.826</td>
<td>0.081</td>
<td>0.172</td>
<td>0.103</td>
<td>0.022</td>
</tr>
<tr>
<td>10--</td>
<td>370</td>
<td>110</td>
<td>3.426</td>
<td>29.851</td>
<td>0.097</td>
<td>0.206</td>
<td>0.326</td>
<td>0.802</td>
</tr>
<tr>
<td>1400</td>
<td>176</td>
<td>110</td>
<td>2.685</td>
<td>62.756</td>
<td>0.097</td>
<td>0.206</td>
<td>0.155</td>
<td>0.142</td>
</tr>
<tr>
<td>15--</td>
<td>6532</td>
<td>2913</td>
<td>1.806</td>
<td>44.623</td>
<td>2.567</td>
<td>5.448</td>
<td>5.753</td>
<td>4.563</td>
</tr>
<tr>
<td>1500</td>
<td>3030</td>
<td>1552</td>
<td>2.030</td>
<td>51.214</td>
<td>1.367</td>
<td>2.900</td>
<td>2.668</td>
<td>1.302</td>
</tr>
<tr>
<td>6500</td>
<td>669</td>
<td>174</td>
<td>3.311</td>
<td>23.998</td>
<td>0.153</td>
<td>0.325</td>
<td>0.589</td>
<td>1.094</td>
</tr>
<tr>
<td>70--</td>
<td>9381</td>
<td>3474</td>
<td>2.688</td>
<td>37.035</td>
<td>3.060</td>
<td>6.493</td>
<td>8.262</td>
<td>14.908</td>
</tr>
<tr>
<td>7000</td>
<td>1394</td>
<td>1271</td>
<td>11.333</td>
<td>91.176</td>
<td>1.119</td>
<td>2.375</td>
<td>1.228</td>
<td>1.113</td>
</tr>
<tr>
<td>7200</td>
<td>1316</td>
<td>156</td>
<td>1.134</td>
<td>11.048</td>
<td>0.137</td>
<td>0.291</td>
<td>0.159</td>
<td>1.231</td>
</tr>
<tr>
<td>7300</td>
<td>1088</td>
<td>337</td>
<td>3.448</td>
<td>30.949</td>
<td>0.297</td>
<td>0.629</td>
<td>0.958</td>
<td>2.243</td>
</tr>
<tr>
<td>7500</td>
<td>469</td>
<td>48</td>
<td>1.115</td>
<td>10.303</td>
<td>0.043</td>
<td>0.090</td>
<td>0.413</td>
<td>0.545</td>
</tr>
<tr>
<td>7900</td>
<td>332</td>
<td>69</td>
<td>1.262</td>
<td>20.764</td>
<td>0.061</td>
<td>0.129</td>
<td>0.292</td>
<td>0.628</td>
</tr>
<tr>
<td>8000</td>
<td>1905</td>
<td>405</td>
<td>1.270</td>
<td>21.247</td>
<td>0.356</td>
<td>0.756</td>
<td>1.678</td>
<td>4.351</td>
</tr>
<tr>
<td>91--</td>
<td>21099</td>
<td>21099</td>
<td>1.000</td>
<td>100.000</td>
<td>18.581</td>
<td>39.433</td>
<td>18.581</td>
<td>5.103</td>
</tr>
<tr>
<td>92--</td>
<td>17540</td>
<td>1134</td>
<td>1.069</td>
<td>6.466</td>
<td>0.999</td>
<td>2.120</td>
<td>15.447</td>
<td>14.448</td>
</tr>
</tbody>
</table>

Source: Bureau of the Census, County Business Patterns, 1972.

Figure 17. Export employment profile.
What profile? (<cr> to see list): 9

1977 County Business Patterns

What level of detail? (type ? for help): 2

<table>
<thead>
<tr>
<th>Sic</th>
<th>Key</th>
<th>Employment</th>
<th>Industry</th>
</tr>
</thead>
<tbody>
<tr>
<td>----</td>
<td></td>
<td>84,073</td>
<td>Total</td>
</tr>
<tr>
<td>07-</td>
<td>D]</td>
<td>300-441</td>
<td>Agricultural Services, Forestry, Fisheries</td>
</tr>
<tr>
<td>0700</td>
<td>D]</td>
<td>153-344</td>
<td>Agricultural Services</td>
</tr>
<tr>
<td>0800</td>
<td>D]</td>
<td>20-113</td>
<td>Forestry</td>
</tr>
<tr>
<td>0900</td>
<td>D]</td>
<td>33-65</td>
<td>Fishing, Hunting, and Trapping</td>
</tr>
<tr>
<td>10-</td>
<td>D]</td>
<td>417-512</td>
<td>Mining</td>
</tr>
<tr>
<td>1300</td>
<td>B]</td>
<td>20-52</td>
<td>Oil and Gas Extraction</td>
</tr>
<tr>
<td>1400</td>
<td>D]</td>
<td>397-479</td>
<td>Nonmetallic Minerals, except Fuels</td>
</tr>
<tr>
<td>15-</td>
<td>[D]</td>
<td>6,148-6,177</td>
<td>Contract Construction</td>
</tr>
<tr>
<td>1500</td>
<td>[D]</td>
<td>1,963-2,253</td>
<td>General Building Contractors</td>
</tr>
<tr>
<td>7600</td>
<td>D]</td>
<td>284-341</td>
<td>Miscellaneous Repair Services</td>
</tr>
<tr>
<td>7800</td>
<td>D]</td>
<td>60-286</td>
<td>Motion Pictures</td>
</tr>
<tr>
<td>7900</td>
<td>D]</td>
<td>498-644</td>
<td>Amusement Recreation Services</td>
</tr>
<tr>
<td>8000</td>
<td>D]</td>
<td>3,671</td>
<td>Health Services</td>
</tr>
<tr>
<td>8100</td>
<td>D]</td>
<td>244-323</td>
<td>Legal Services</td>
</tr>
<tr>
<td>8200</td>
<td>D]</td>
<td>393-680</td>
<td>Educational Services</td>
</tr>
<tr>
<td>8300</td>
<td>D</td>
<td>296-372</td>
<td>Social Services</td>
</tr>
<tr>
<td>8400</td>
<td>A</td>
<td>0-19</td>
<td>Museums, Botanical, Zoological Gardens</td>
</tr>
<tr>
<td>8600</td>
<td>D</td>
<td>953-975</td>
<td>Membership Organizations</td>
</tr>
<tr>
<td>8900</td>
<td>D]</td>
<td>444-577</td>
<td>Miscellaneous Services</td>
</tr>
<tr>
<td>899a</td>
<td>D]</td>
<td>20-81</td>
<td>Administrative and Auxiliary</td>
</tr>
<tr>
<td>99-</td>
<td>D</td>
<td>126-211</td>
<td>Unclassified Establishments</td>
</tr>
</tbody>
</table>

Non-disclosure keys (minimum-maximum):


Source: Bureau of the Census, County Business Patterns, 1977

Figure 18. 1977 County Business Patterns profile.
What profile? (<cr> to see list): 10

Sub-county demographic profiles
dale, al: 5 MCDs or Tracts

Which demographic profile? (type ? for help): ?
type: for:
1 population counts
2 household counts
3 per capita and mean household income
4 population and per capita income
5 households and mean household income
6 households and median household income
7 1978/1979 population, households, and income
8 1970 household counts by household income
9 1978 household counts by household income
10 MCD/Tract names and codes
11 next county
-1 to quit

Which demographic profile? (type ? for help): 7

1978/1979 population, households, and income

<table>
<thead>
<tr>
<th>UNIT/ CODE</th>
<th>1979 POP</th>
<th>1979 HHS</th>
<th>1978 PCI</th>
<th>1978 HHI</th>
<th>AREA NAME</th>
</tr>
</thead>
<tbody>
<tr>
<td>C 01045</td>
<td>42,210</td>
<td>12,404</td>
<td>4,925</td>
<td>16,180</td>
<td>dale, al</td>
</tr>
<tr>
<td>M 5</td>
<td>2,226</td>
<td>706</td>
<td>4,869</td>
<td>15,205</td>
<td>ARITON DIV</td>
</tr>
<tr>
<td>M 10</td>
<td>1,364</td>
<td>449</td>
<td>4,961</td>
<td>14,976</td>
<td>ECHO DIV</td>
</tr>
<tr>
<td>M 15</td>
<td>3,493</td>
<td>1,099</td>
<td>4,348</td>
<td>13,702</td>
<td>MIDLAND-PINCKARD D</td>
</tr>
<tr>
<td>M 20</td>
<td>9,464</td>
<td>3,221</td>
<td>5,104</td>
<td>14,869</td>
<td>NEWTON DIV</td>
</tr>
<tr>
<td>M 25</td>
<td>25,663</td>
<td>6,929</td>
<td>4,925</td>
<td>17,467</td>
<td>OZARK DIV</td>
</tr>
</tbody>
</table>

Source: National Planning Data Corporation, 1979

Which demographic profile? (type ? for help): 9

1978 household counts by household income

<table>
<thead>
<tr>
<th>UNIT/ CODE</th>
<th>under $7,500</th>
<th>-7,500</th>
<th>$7,500</th>
<th>$15,00</th>
<th>$25,000</th>
<th>$35,000</th>
<th>$50,000</th>
<th>or more</th>
<th>AREA NAME</th>
</tr>
</thead>
<tbody>
<tr>
<td>C 01045</td>
<td>3,570</td>
<td>2,786</td>
<td>3,186</td>
<td>1,875</td>
<td>678</td>
<td>184</td>
<td>dale, al</td>
<td></td>
<td></td>
</tr>
<tr>
<td>M 5</td>
<td>322</td>
<td>129</td>
<td>177</td>
<td>121</td>
<td>31</td>
<td>16</td>
<td>ARITON DIV</td>
<td></td>
<td></td>
</tr>
<tr>
<td>M 10</td>
<td>196</td>
<td>96</td>
<td>124</td>
<td>96</td>
<td>15</td>
<td>5</td>
<td>ECHO DIV</td>
<td></td>
<td></td>
</tr>
<tr>
<td>M 15</td>
<td>361</td>
<td>179</td>
<td>219</td>
<td>169</td>
<td>15</td>
<td>8</td>
<td>MIDLAND-PINCKARD D</td>
<td></td>
<td></td>
</tr>
<tr>
<td>M 20</td>
<td>1,045</td>
<td>754</td>
<td>881</td>
<td>569</td>
<td>196</td>
<td>53</td>
<td>NEWTON DIV</td>
<td></td>
<td></td>
</tr>
<tr>
<td>M 25</td>
<td>1,646</td>
<td>1,628</td>
<td>1,785</td>
<td>920</td>
<td>421</td>
<td>102</td>
<td>OZARK DIV</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Source: National Planning Data Corporation, 1979

Which demographic profile? (type ? for help): -1

Figure 19. Population/households/income by tract/minor civil division profile.
Rational Threshold Values

All dollar amounts are in thousands of dollars.
Dollar adjustment based on Consumer Price Index (1967=100).

**BUSINESS VOLUME (using Non-Farm Income)**

<table>
<thead>
<tr>
<th>YEAR</th>
<th>Non-Farm income</th>
<th>adjusted income</th>
<th>change</th>
<th>deviation</th>
<th>% deviation</th>
</tr>
</thead>
<tbody>
<tr>
<td>1965</td>
<td>451,896</td>
<td>478,197</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1966</td>
<td>518,454</td>
<td>533,389</td>
<td>55,192</td>
<td>20,190</td>
<td>4.222 %</td>
</tr>
<tr>
<td>1967</td>
<td>556,933</td>
<td>556,933</td>
<td>23,544</td>
<td>-11,458</td>
<td>-2.148 %</td>
</tr>
<tr>
<td>1968</td>
<td>623,924</td>
<td>598,775</td>
<td>41,842</td>
<td>6,840</td>
<td>1.228 %</td>
</tr>
<tr>
<td>1969</td>
<td>700,064</td>
<td>637,581</td>
<td>38,806</td>
<td>3,803</td>
<td>0.635 %</td>
</tr>
<tr>
<td>1970</td>
<td>782,814</td>
<td>673,099</td>
<td>35,518</td>
<td>515</td>
<td>0.081 %</td>
</tr>
<tr>
<td>1971</td>
<td>836,576</td>
<td>689,675</td>
<td>16,576</td>
<td>-18,426</td>
<td>-2.738 %</td>
</tr>
<tr>
<td>1972</td>
<td>877,861</td>
<td>700,607</td>
<td>10,932</td>
<td>-24,070</td>
<td>-3.490 %</td>
</tr>
<tr>
<td>1973</td>
<td>994,081</td>
<td>746,868</td>
<td>46,261</td>
<td>11,258</td>
<td>1.607 %</td>
</tr>
<tr>
<td>1974</td>
<td>1,101,994</td>
<td>746,103</td>
<td>-765</td>
<td>-35,767</td>
<td>-4.789 %</td>
</tr>
<tr>
<td>1975</td>
<td>1,155,180</td>
<td>716,613</td>
<td>-29,490</td>
<td>-64,492</td>
<td>-8.644 %</td>
</tr>
<tr>
<td>1976</td>
<td>1,314,916</td>
<td>771,212</td>
<td>54,599</td>
<td>19,596</td>
<td>2.735 %</td>
</tr>
<tr>
<td>1977</td>
<td>1,440,043</td>
<td>793,412</td>
<td>22,200</td>
<td>-12,802</td>
<td>-1.660 %</td>
</tr>
<tr>
<td>1978</td>
<td>1,618,344</td>
<td>828,221</td>
<td>34,809</td>
<td>-193</td>
<td>-0.024 %</td>
</tr>
</tbody>
</table>

average yearly change: 35,002
maximum historic positive deviation: 20,190
maximum historic negative deviation: -64,492

positive rtv: 4.22 %
negative rtv: -6.483 %

Figure 20. RTV profile.
### PERSONAL INCOME

<table>
<thead>
<tr>
<th>YEAR</th>
<th>Personal income</th>
<th>Adjusted income</th>
<th>Change</th>
<th>Deviation</th>
<th>% Deviation</th>
</tr>
</thead>
<tbody>
<tr>
<td>1965</td>
<td>579,799</td>
<td>613,544</td>
<td>52,745</td>
<td>-29</td>
<td>-0.005 %</td>
</tr>
<tr>
<td>1966</td>
<td>647,262</td>
<td>665,907</td>
<td>26,344</td>
<td>12,248</td>
<td>0.007 %</td>
</tr>
<tr>
<td>1967</td>
<td>703,384</td>
<td>703,384</td>
<td>0</td>
<td>0</td>
<td>0.000 %</td>
</tr>
<tr>
<td>1968</td>
<td>781,286</td>
<td>749,795</td>
<td>-46,537</td>
<td>12,248</td>
<td>0.007 %</td>
</tr>
<tr>
<td>1969</td>
<td>874,814</td>
<td>796,734</td>
<td>78,080</td>
<td>-14,248</td>
<td>-0.185 %</td>
</tr>
<tr>
<td>1970</td>
<td>979,883</td>
<td>842,548</td>
<td>137,341</td>
<td>-14,248</td>
<td>-0.185 %</td>
</tr>
<tr>
<td>1971</td>
<td>1,071,241</td>
<td>883,134</td>
<td>188,107</td>
<td>-14,248</td>
<td>-0.185 %</td>
</tr>
<tr>
<td>1972</td>
<td>1,144,348</td>
<td>913,287</td>
<td>231,061</td>
<td>-14,248</td>
<td>-0.185 %</td>
</tr>
<tr>
<td>1973</td>
<td>1,332,582</td>
<td>1,001,189</td>
<td>331,393</td>
<td>-14,248</td>
<td>-0.185 %</td>
</tr>
<tr>
<td>1974</td>
<td>1,497,658</td>
<td>1,013,986</td>
<td>483,672</td>
<td>14,248</td>
<td>0.185 %</td>
</tr>
<tr>
<td>1975</td>
<td>1,23,936</td>
<td>1,007,405</td>
<td>233,526</td>
<td>-14,248</td>
<td>-0.185 %</td>
</tr>
<tr>
<td>1976</td>
<td>1,805,737</td>
<td>1,059,083</td>
<td>746,654</td>
<td>-14,248</td>
<td>-0.185 %</td>
</tr>
<tr>
<td>1977</td>
<td>1,948,703</td>
<td>1,073,666</td>
<td>875,037</td>
<td>14,248</td>
<td>0.185 %</td>
</tr>
<tr>
<td>1978</td>
<td>2,222,621</td>
<td>1,137,472</td>
<td>1,085,149</td>
<td>14,248</td>
<td>0.185 %</td>
</tr>
</tbody>
</table>

Average yearly change: 52,393
Maximum historic positive deviation: 35,509
Maximum historic negative deviation: -58,975
Positive rtv: 3.888 %
Negative rtv: -3.897 %

### EMPLOYMENT

<table>
<thead>
<tr>
<th>YEAR</th>
<th>Employment</th>
<th>Change</th>
<th>Deviation</th>
<th>% Deviation</th>
</tr>
</thead>
<tbody>
<tr>
<td>1966</td>
<td>138,547</td>
<td>141,705</td>
<td>3,158</td>
<td>-95</td>
</tr>
<tr>
<td>1967</td>
<td>147,390</td>
<td>151,179</td>
<td>3,789</td>
<td>536</td>
</tr>
<tr>
<td>1968</td>
<td>150,135</td>
<td>154,329</td>
<td>4,194</td>
<td>-4,297</td>
</tr>
<tr>
<td>1969</td>
<td>147,353</td>
<td>158,214</td>
<td>3,861</td>
<td>632</td>
</tr>
<tr>
<td>1970</td>
<td>157,685</td>
<td>162,758</td>
<td>5,073</td>
<td>1,820</td>
</tr>
<tr>
<td>1971</td>
<td>167,811</td>
<td>174,331</td>
<td>6,520</td>
<td>3,267</td>
</tr>
</tbody>
</table>

Average yearly change: 3,253
Maximum historic positive deviation: 3,723
Maximum historic negative deviation: -6,035
Positive rtv: 2.527 %
Negative rtv: -2.693 %

Figure 20. (Cont'd)
## POPULATION

<table>
<thead>
<tr>
<th>YEAR</th>
<th>Population</th>
<th>change</th>
<th>deviation</th>
<th>% deviation</th>
</tr>
</thead>
<tbody>
<tr>
<td>1965</td>
<td>333,529</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1966</td>
<td>343,407</td>
<td>9,878</td>
<td>5,145</td>
<td>1.543 %</td>
</tr>
<tr>
<td>1967</td>
<td>345,390</td>
<td>1,983</td>
<td>-2,750</td>
<td>-0.801 %</td>
</tr>
<tr>
<td>1968</td>
<td>349,193</td>
<td>3,803</td>
<td>-930</td>
<td>-0.269 %</td>
</tr>
<tr>
<td>1969</td>
<td>351,56</td>
<td>1,963</td>
<td>-2,770</td>
<td>-0.793 %</td>
</tr>
<tr>
<td>1970</td>
<td>357,248</td>
<td>6,092</td>
<td>1,359</td>
<td>0.387 %</td>
</tr>
<tr>
<td>1971</td>
<td>363,464</td>
<td>6,216</td>
<td>1,483</td>
<td>0.415 %</td>
</tr>
<tr>
<td>1972</td>
<td>364,852</td>
<td>1,388</td>
<td>-3,345</td>
<td>-0.920 %</td>
</tr>
<tr>
<td>1973</td>
<td>365,741</td>
<td>889</td>
<td>-3,844</td>
<td>-1.054 %</td>
</tr>
<tr>
<td>1974</td>
<td>375,758</td>
<td>10,017</td>
<td>5,284</td>
<td>1.445 %</td>
</tr>
<tr>
<td>1975</td>
<td>385,008</td>
<td>9,250</td>
<td>4,517</td>
<td>1.202 %</td>
</tr>
<tr>
<td>1976</td>
<td>387,376</td>
<td>2,368</td>
<td>-2,365</td>
<td>-0.614 %</td>
</tr>
<tr>
<td>1977</td>
<td>390,626</td>
<td>3,250</td>
<td>-1,483</td>
<td>-0.383 %</td>
</tr>
<tr>
<td>1978</td>
<td>395,058</td>
<td>4,432</td>
<td>-301</td>
<td>-0.077 %</td>
</tr>
</tbody>
</table>

average yearly change: 4,733
maximum historic positive deviation: 5,284
maximum historic negative deviation: -3,844
positive rtv: 1.445 %
negative rtv: -0.527 %

Source: Bureau of Economic Analysis

Figure 20. (Cont'd)

What profile? (<cr> to see list): 98

New or Experimental Profiles Available for Sampling:

<table>
<thead>
<tr>
<th>Type</th>
<th>For:</th>
</tr>
</thead>
<tbody>
<tr>
<td>45</td>
<td>CERL-RIMS</td>
</tr>
<tr>
<td>60</td>
<td>DLA profile</td>
</tr>
<tr>
<td>71</td>
<td>CAS</td>
</tr>
<tr>
<td>75</td>
<td>Review of your county list</td>
</tr>
<tr>
<td>83</td>
<td>BEA Graphics Demo (Ramtek terminal only)</td>
</tr>
<tr>
<td>84</td>
<td>ROI-Within-State(s) plot (Ramtek terminal only)</td>
</tr>
<tr>
<td>85</td>
<td>ROI plot (Ramtek terminal only)</td>
</tr>
<tr>
<td>86</td>
<td>AFLECS (Loser) Input Editor</td>
</tr>
<tr>
<td>87</td>
<td>AFLECS (Gainer) Input Editor</td>
</tr>
<tr>
<td>88</td>
<td>Population Pyramid</td>
</tr>
<tr>
<td>89</td>
<td>Population Pyramid by County</td>
</tr>
<tr>
<td>90</td>
<td>Population Pyramid by Year</td>
</tr>
<tr>
<td>91</td>
<td>Population by Sex and Age, 1970-1975</td>
</tr>
<tr>
<td>97</td>
<td>Description of EIFS 2.5 versus EIFS 2.3</td>
</tr>
</tbody>
</table>

What profile? (<cr> to see list):

Figure 21. Menu of experimental profiles.
What profile? (<cr> to see list): 45

CERL-RIMS
Calculates multipliers for IO Codes specified by user.
Non-disclosure ranges are replaced by the midpoint of the range.

Enter new IO code list

type ? to see list of codes
?: to see your choices
q or bye to leave profile
up to 6 digits to enter a code
<crl> to stop entering codes

Enter ? x q bye <cr> or IO code: 140600
140600 Fluid Milk

Enter ? x q bye <cr> or IO code: 140500
140500 Ice Cream & Frozen Desserts

Enter ? x q bye <cr> or IO code:

Your list has 2 codes:
29 10: 140500
30 10: 140600

Do you wish to add or delete a code? (a/d/<cr>):
list complete

@ IO codes: 2 @ SIC codes - US: 2 Area: 2

Do you want to calculate Multipliers? (c)?

list complete

#: IO codes: 2 #: SIC codes - US: 2 Area: 2

Do you want to calculate Multipliers? *** type s to stop ***:

29 IO: 140500 Weight: 0.716049
30 IO: 140600 Weight: 0.283951

************* CERL-RIMS Multiplier Computations *************

Direct Effect (DE)
- Goods and Services Purchased Locally 0.368200
- Labor Hired Locally 0.168962

Indirect Effect (IE)
- Agr Share of Local Non-Govt Earnings (P1) 0.059584
- Mfg Share of Local Non-Govt Earnings (P2) 0.291201
- Local Share of US Non-Govt Earnings (S2) 0.001122

ln(IE) = .65 -.79eP1 - .13eP2 + .17eS2 + 1.03eDE

Output Multiplier (Mq) = 1 + DE + IE 1.877992

Employment Multiplier (Me) = 1 + (E./Ej)*(Mq - 1) 2.658065

Employment per Output - Avg (E.) 0.000031
Employment per Output - Selected Industries (Ej) 0.000017

Income Multiplier (Mi) = 1 + (I./Ij)*(Mq - 1) 2.231822

Income per Output - Avg (I.) 0.237053
Income per Output - Selected Industries (Ij) 0.168962

************* Pausing <cr> to return to eifs *************

Figure 22. CERL-RIMS profile.
What profile (<cr> to see list): 60
Calculating Multiplier.
Employment Multiplier: 2.1221
Income Multiplier: 1.7604

Do you want to use FSC or SIC commodity codes (fsc or sic)? sic
Which SIC commodity code (type ? for help): 2791
Your SIC commodity class is:
Code: 2791
Title: Typesetting
Are you satisfied? yes

What is the dollar value of the contract? 50000

The maximum number of employees expected to be either hired or laid off because of a contract award is: 1.2

The minimum number of employees expected to be either hired or laid off because of a contract award is: 0.9

The average number of employees expected to be either hired or laid off because of a contract award is: 1.0

How many employees will be hired or laid off because of the contract award according to the employer (i.e., employer’s representation)? 1

The employment multiplier is: 2.076931

The total employment impact on the local economy due to the contract award (using the employer’s representation) is: 2.1

The total employment impact on the local economy due to the contract award (using the average number of employees expected to be hired or laid off by the contract) is: 2.1

If the contractor hires workers due to a contract award, the total employment impact is positive. If the contractor lays off workers because the contract is not awarded, then the total employment impact is negative.

Figure 23. DLA profile.
What profile? (<cr> to see list): 71
Your login 'robinson' is restricted

Aloha from CAS

Figure 24. CAS profile.

What profile? (<cr> to see list): 75
You have selected 13 counties:

<table>
<thead>
<tr>
<th>#</th>
<th>FIPS#</th>
<th>county</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>01045</td>
<td>dale, al</td>
</tr>
<tr>
<td>2</td>
<td>01061</td>
<td>geneva, al</td>
</tr>
<tr>
<td>3</td>
<td>01067</td>
<td>henry, al</td>
</tr>
<tr>
<td>4</td>
<td>01069</td>
<td>houston, al</td>
</tr>
<tr>
<td>5</td>
<td>12005</td>
<td>bay, fl</td>
</tr>
<tr>
<td>6</td>
<td>12045</td>
<td>gulf, fl</td>
</tr>
<tr>
<td>7</td>
<td>12063</td>
<td>jackson, fl</td>
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<tr>
<td>8</td>
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</tr>
<tr>
<td>9</td>
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<tr>
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<td>13099</td>
<td>early, ga</td>
</tr>
<tr>
<td>11</td>
<td>13131</td>
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</tr>
<tr>
<td>12</td>
<td>13201</td>
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<tr>
<td>13</td>
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<td>thomas, ga</td>
</tr>
</tbody>
</table>

Figure 25. Review of county list profile.
What profile? (<cr> to see list): 78

Do-It-Yourself Population Pyramids

Option (type ? for help)? ?

Valid keywords are:
help, plot, list, area, time, race, review, quit

Option (type ? for help)? race
Which race option (type ? for help)? ?

Valid keywords are:
help, total, white, nonwhite, both, current, leave

Which race option (type ? for help)? both

Option (type ? for help)? time
Which time option (type ? for help)? ?

Valid keywords are:
leave

Which time option (type ? for help)? 1977
1977 added
Which time option (type ? for help)? leave

Figure 26. Do-it-yourself population pyramids profile.
Regional Aggregate - White Population - 1977

<table>
<thead>
<tr>
<th>age</th>
<th>male</th>
<th>female</th>
</tr>
</thead>
<tbody>
<tr>
<td>85+</td>
<td>**</td>
<td>****</td>
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<tr>
<td>80-84</td>
<td>***</td>
<td>*****</td>
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<tr>
<td>75-79</td>
<td>*****</td>
<td>**********</td>
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<tr>
<td>70-74</td>
<td>**********</td>
<td>**********</td>
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<tr>
<td>65-69</td>
<td>**********</td>
<td>**********</td>
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<tr>
<td>60-64</td>
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<td>40-44</td>
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<td>25-29</td>
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<tr>
<td>0-4</td>
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</tr>
</tbody>
</table>

Each "*" represents 408 persons; pyramid total is 298,626.

Regional Aggregate - Nonwhite Population - 1977

<table>
<thead>
<tr>
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<tbody>
<tr>
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<td>0-4</td>
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</tr>
</tbody>
</table>

Each "*" represents 167 persons; pyramid total is 92,021.

Source: Bureau of the Census

Figure 26. (Cont'd)
What profile? (<cr> to see list): 86

AFLECS (Loser) Editor (Version 1.0)

Which option (type ? for a menu) ?

Type: To:
1. See a list of your existing files
2. Get a printout of the input questionnaire
3. Enter inputs from your terminal
4. Get the inputs from one of your files
5. Remove one of your files
6. See the inputs you have loaded
7. Run the AFLECS Model
8. Examine/change your inputs
9. Store your inputs in a file
-1. Leave the editor

Which option (type ? for a menu) ? -1

Figure 27. AFLECS (Loser) input editor profile.

What profile? (<cr> to see list): 87

AFLECS (Gainer) Editor (Version 1.0)

Which option (type / for a menu) ?

Type: To:
1. See a list of your existing files
2. Get a printout of the input questionnaire
3. Enter inputs from your terminal
4. Get the inputs from one of your files
5. Remove one of your files
6. See the inputs you have loaded
7. Run the AFLECS Model
8. Examine/change your inputs
9. Store your inputs in a file
-1. Leave the editor

Which option (type ? for a menu) ? -1

Figure 28. AFLECS (Gainer) input editor profile.
What profile?  (<cr> to see list): 97

A new EIFS program has been installed. This new version presents new
data and additional user features.

New features have been added for study area selection:

1) User-defined regions. With the "save" option, you can store and
   name a frequently used study area definition for retrieval during
   a later EIFS session.

2) SMSAs. EIFS recognizes standard SMSAs.

3) Help. You can obtain lists of states, counties within a state,
   standard regions, or user-defined regions on demand.

New data have been added to the EIFS database:

1) 1980 Census. Profile 1 for digested form, profile 80 for
   unabridged.


To make room for the new profiles, the menu has been re-arranged;
profiles have been renumbered and/or replaced by new ones.

Figure 29. Description of EIFS 2.5 versus EIFS 2.3 profile.
The Nature of the EIFS Forecast Models

EIFS contains two versions for each of five separate submodels, both with and without automatic inflation correction. Each of the submodels corresponds to one of five functional areas (FAs) of military actions:

1. Construction (C)
2. Operations and Maintenance (O&M)
3. Training (T)
4. Mission Change (MC)
5. Contractor/Industrial Type Activities (CITA)

These FAs not only represent different military functions, but they are also likely to create different economic and social effects in the surrounding community. The differences in these socioeconomic effects are chiefly due to the differences in procurement and consumer expenditures for locally produced goods and services (both in total and in terms of the commodity distribution) associated with each FA. For example, on the average, military trainees who live on-post spend less of their income in the local economy than civilian personnel who reside off-post; their patterns of expenditures for various goods and services are also likely to differ. These differences are explained partly by the fact that trainees are generally provided room and board, whereas civilian employees are not. Several other demographic factors that differ between trainees and civilians will also affect the portion of income spent locally and their expenditure patterns; these include marriage rates, number of dependents, and age, sex, and racial compositions.

Even though EIFS consists of a set of five separate forecast models, they are similar enough to be considered as a "generic" regional economic impact model. Figure 30 illustrates the general model structure found in all of the EIFS forecast models. The figure is useful because it not only shows the relationship that a military action has with its regional economy, but also summarizes the interrelationships among and between the various economic and social sectors of the community. More importantly, Figure 30 provides an invaluable tool for understanding the equations for each submodel given in Appendix A.

Regardless of the FA, a military action will usually involve a change in personnel, their wages and salaries, and local procurements for materials and supplies. In EIFS, personnel are classified as either civilian, military permanent party, or military trainee. A further distinction is made between military personnel living on-post, both permanent party and trainee, and those living in the region around the installation. However, EIFS assumes that all civilian employees live off-post.

The only demographic variable explicitly modeled in EIFS is the number of school children who impact local school districts. These children are assumed to be dependents of the civilian and military personnel directly affected by the military action. Population is implicitly modeled here to the extent that only those civilian and military personnel involved with the military action

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17R. Webster, et al., Interim Report E-52.
Figure 30. The "generic" EIFS forecast model.
and their dependents are counted in the population change. EIFS does not estimate the local population effects that may be induced as a result of the economic impacts from a military action.

Changes in salaries and local procurements are converted into an initial change in local sales. Local procurements for materials and supplies are assumed to go to merchants who sell wholesale goods or business and professional services. Personnel salaries are converted to local sales of retail goods and personnel services by factors that represent the portion of income spent in the region. These factors differ for civilians and various types of military personnel; they also account for the differences in consumer purchases at post commissary and exchange facilities by military personnel living on- and off-post.

In terms of national income accounting principles, local sales for wholesale and retail goods do not represent the "output" for those sectors, because the value of the sales includes the cost of the goods that are sold. Normally, the trade sectors are treated as "margin" sectors, meaning the value of the goods sold by local merchants is subtracted from their sales. In other words, wholesale and retail trade merchants only sell products; they do not make them. Consequently, the cost of the goods sold is usually treated as sales for those sectors that produce the commodities. To the extent that the commodities sold by local trade merchants are not produced locally, the EIFS forecast models overestimate the initial effect of a military action within the local economy.\(^\text{18}\)

Local merchants are assumed to hire or lay off employees because of the initial change in sales. Furthermore, this direct change in local employment is presumed to be proportional to the initial change in local sales. Like the initial change in sales, these workers are employed at either trade or service sector establishments. In addition to employment changes, the initial change in local sales will also affect the wages and salaries of employees in the affected businesses.

The direct changes in local employment and local income will generate subsequent local employment and income changes. The overall subsequent changes in local employment and income caused by the initial change in local sales are called the multiplier process. The multiplier process can be quantified as a "multiplier," which estimates the total changes that result from an initial change. EIFS estimates and uses three types of multipliers: employment, income, and sales multipliers. Consequently, the total change in local employment due to a military action is equal to the product of the direct change in local employment and the employment multiplier, plus the military and civilian personnel who were affected by the military action. The total change in local income due to a military action is equal to the product

\(^{18}\) For example, U.S. wholesale and retail trade sales receipts for 1972 are about seven times greater than the value added. The 1972 U.S. sales receipts for wholesale and retail trade were $1,154,264,000,000 according to the 1972 Censuses of Wholesale and Retail Trade. The 1972 U.S. value added for wholesale and retail trade was $166,103,000,000, according to the 1972 National Input-Output Table (Survey of Current Business, April 1979, pp 51-72).
of the direct change in local income and the income multiplier, adjusted to reflect local personnel income by place of residence, plus the income of the military and civilian personnel who were affected by the military action. Employment and income changes calculated in EIFS are "full-time" equivalents; i.e., two workers employed for 4 hours a day is the same as one employee working an 8-hour day. Also, total change in local personal income does not include the effects of overtime pay, night-pay differentials, weekend pay, etc. Local personal income in EIFS is defined as the sum of wages and salaries, dividends, interest, rents, transfer payments, and net social insurance payments. The total change in local sales (i.e., business volume) from a military action is equal to the product of the direct change in local sales and the sales multiplier.

Consistent with Keynesian income theory, EIFS relates changes in local consumption to changes in local income. Change in local consumer expenditures for housing and other commodities, such as food, clothing, personal services, etc., are related to changes in local personal income via average propensities to consume. The local populace is assumed to spend 16 percent of its personal income for local housing; the average propensity to consume goods and services other than housing is assumed to be 63 percent of personal income. Differences between house owners and renters are not specified in EIFS, and the average propensities to consume are national averages which do not reflect any regional differences in expenditure patterns.

On the other hand, changes in the local investment reflect changes in the demand for locally produced goods and services. That is, local investment in the business sectors is derived from changes in local consumer expenditures for the goods and services produced in those sectors. Investment in local housing is, in reality, related to changes in local rental income, which, in turn, is computed from changes in local housing expenditures. The factor relating changes in local rental income to changes in local housing expenditures is a national average of 7.75. The average propensity to invest in local housing out of the changes in local rental income is also a national constant, equal to .06. On the other hand, investment in local firms producing goods and services other than housing is derived directly from the changes in consumer demand. The average propensity to invest in local non-housing-type businesses is also a national constant, equal to .12 of the change in local non-housing type consumer expenditures.

The attractiveness of a community relative to the rest of the nation in terms of business location and population residential choices is related to factors such as the area's relative position with respect to personal income, business activity, employment, etc. A military action which affects local business activity, income, employment, and other factors does so in a way that changes the local economy's attractiveness for business and population location. Consequently, these changes are likely to generate changes in the demand for available property. Assuming the supply of property is rather "inelastic" during the short term (i.e., about 1 year), changes in demand for local property will be reflected in changes in property values. That is, changes in the market value for real property depend on changes in the general level of local prosperity (measured by changes in local business volume). Within EIFS, it is the relative annual change in local business volume that is converted to changes in local property values via a region-specific
factor relating the assessed value of local property to an assessed-to-market-value ratio. "Property" is considered in total within EIFS and is not disaggregated by classifications such as agricultural, residential, commercial, or industrial.

Local government functions are broken down into "education" and "other." Other local government functions include such things as fire and police protection, public welfare and assistance, and sanitation. The change in the number of school children affects both local government expenditures for education (via the average local education expenditures per pupil) and State and Federal aid to local school districts. Changes in local government revenues other than school aid are due to changes in State sales taxes (i.e., via changes in local business activity) retained locally and to changes in local property taxes (i.e., via changes in local property values). EIFS does not estimate changes in local income taxes (where they exist). Finally, changes in local government expenditures to provide services other than education are related to relative annual changes in local business activity.

Running the Models

Entering the Forecast Models Profile

Access to the EIFS forecast models is gained through the Forecast Models Profile (#12) (Figure 31).

Construction FA

The Construction FA forecast models estimate the economic and social consequences of a construction project. The construction project is assumed to be carried out by a construction firm, so that neither the civilian nor the military personnel of the installation are involved in the activity. The original intent and the current structure of the Construction FA model is to simulate the regional socioeconomic effects from constructing post housing for military personnel. The exact scenario modeled here includes the positive socioeconomic impact on a region from building the housing units. The magnitude of these positive effects depends mostly on the extent to which local laborers are used for the construction project and on how much the construction contractor depends on local merchants for needed materials and supplies. On the other hand, the positive effects of the construction activity could be balanced by the negative local economic and social consequences generated because the military personnel and their dependents move into the newly built post housing from the surrounding communities. This means that rents will not be paid for local housing, the affected military personnel and their dependents will acquire a greater share of their goods and services from the post commissary and exchange facilities, and school-age dependents will be attending schools on-post.

In addition, the Construction FA forecast models can simulate the regional socioeconomic impacts of many other types of construction activities: for example, the construction of streets and highways, dams, water and sewage facilities; office buildings; housing for nonmilitary personnel; and the maintenance and repair of this construction. These types of construction activities do not have negative socioeconomic effects on the local communities, because
What profile? (<cr> to see list): 12

Functional Area? (<cr> to see list):

Type: for:
1 construction
2 operations, maintenance and repair
3 training
4 mission change
5 commercial/industrial type activities
10 an introduction to inflation adjustment using price deflators
11 construction (with price deflators)
12 operations, maintenance and repair (with price deflators)
13 training (with price deflators)
14 mission change (with price deflators)
15 commercial/industrial type activities (with price deflators)

- to return to profile selection
control-d to leave eifs

Figure 31. Forecast models profile.
they do not involve military personnel and their dependents moving into post housing.

Running the Construction FA models requires that the user provide the answers to several system-supplied questions: six answers for the Construction model without price deflators (FA #1), and ten answers for the Construction model with price deflators (FA #11), not including a project title. Only the questions not concerned with price deflators are discussed here. Price deflation and how to answer price deflator questions in the forecast models will be explained later (see p 73). Figure 32 (Construction FA) is an example run.

"Project name."

Any phrase that describes the action being modeled. It will be printed with the output and serve as a label. This is especially useful when several alternative scenarios are proposed and run for a single military action.

"If entering total expenditures, enter 1
local expenditures, enter 2:"

If the user knows and will be entering construction expenditures going to local firms, then the value 2 (two) should be entered here. The system will then prompt the user for the dollar value of local construction expenditures. If total construction expenditures are to be entered, then the value 1 (one) should be entered here. The system will prompt the user, as a result, for the total dollar value of the construction project.

"Dollar volume of construction project:"

This question is asked if total construction project expenditures are to be entered (i.e., if the user responded to the last question with a value of 1). The total dollar value of expenditure for the construction project is expected. The system will compute the dollar value of local construction expenditures by default.

"Local expenditures for construction project:"

This question is asked if local construction project expenditures are known and are to be entered. This is the dollar value of construction expenditures going to local firms.

"Percent for labor:"

This is the labor requirement for the construction project. In other words, "What percentage of the construction expenditures will be used to hire labor?"

Sources: (1) Check with a local construction firm.
Forecast Models – which functional area? (Ctrl to see list) 1

CONSTRUCTION

Project name: Construction FA Example
If entering total expenditures, enter 1
local expenditures, enter 2 1
Dollar volume of construction project: $10,000,000
Local expenditures of project: $2,773,300 (calculated)
Percent for labor: 35
Percent allowed for materials: 40
Number of military families to move onto base from local region: 23
Average income of affected military personnel: $15,500

******** CONSTRUCTION IMPACT FORECAST FOR Construction FA Example ********

Export employment multiplier: 2.1221
Export income multiplier: 1.7604
Change in local
Sales volume
Direct: $3,598,000
Induced: $4,038,000
Total: $7,636,000 (0.451%)
Employment
Direct: 296
Total: 408 (0.277%)
Income
Direct: $2,424,000
Total (place of work): $2,860,000 (0.303%)
Total (place of residence): $2,907,000 (0.254%)
Consumption
Housing: $507,000
Non-housing: $1,831,000
Investment
Housing: $236,000
Non-housing: $220,000
Number of school children: -22 (-0.024%)
Property values
Direct: $6,773,000 (0.451%)
Government revenues
Taxes: $382,000
State and federal aid to schools: $14,000
Government expenditures... Schools: $-6,000
Other: $236,000
Net: $230,000

Figure 32. Construction FA.
(2) The latest Census of Construction (U.S. Bureau of the Census) has state-specific construction receipts and expenditures by type of construction activity, including expenditures for labor and materials.

(3) The latest National Input-Output Study (U.S. Bureau of Economic Analysis) also has construction receipts and expenditures for labor, materials, and other costs by type of construction activity, but the level of detail for construction expenditures for materials is much greater than for the Census of Construction.

"Percent for materials:" This percentage of construction expenditures used for materials and supplies. The same data sources and comments concerning the percentage of construction expenditures for hiring labor also apply here. Remember that the sum of the percentage of construction expenditures for labor and materials should not be greater than 100 percent. The sum of these two percentages will usually be less than 100 percent, because construction firms normally have to pay Federal, State, and local taxes, and have a profit margin in addition to payments for labor, materials, and supplies.

"Number of military families moving onto base from local region:" This is the number of military families moving on-post from the user-defined region into the newly constructed post housing. EIFS implicitly assumes that only one family member is in the military, so this number is the same as the number of the affected military personnel. Again, if this is a construction project not involving families moving into newly built post housing, this question should be ignored.

"Average income of affected military personnel:" This is the average annual income of those military personnel who reside in the communities of the study area that surround the military installation and who will move into the housing being constructed. Ideally, this should be the income for only those personnel affected by the housing project, although this information is not always precisely known during the planning stage. Check with the Post Personnel Office for this information. Note that income, as used in the EIFS forecast models, is a broader concept than the value of the employees' wages and salaries. Consideration should be made, whenever appropriate, for income earned from second jobs, working dependents, unearned income (i.e., interest, dividends, and rents), etc. Remember, if this is a construction project for other than military housing, this question should be ignored (i.e., type RETURN for an answer), because this model assumes that military personnel are not involved in the construction activity.

Operations and Maintenance FA

The Operations and Maintenance FA forecast models calculate the socioeconomic impacts within a regional economy from a military facility's on-going...
operation. This forecast model may be used to evaluate impacts from continued operation of an entire military installation or just a part of it (such as the Post Finance Office). As such, the military facility will affect the local economy through the locally produced goods and services that are purchased either by the facility personnel (both civilian and military) or by procurement for services and supplies.

As with other EIFS forecast models, the Operations and Maintenance FA forecast models may be used to analyze the regional economic and social consequences from operating nonmilitary facilities; e.g., from a local shoe factory or from the county police department. Note that the nonmilitary applications will not involve military personnel.

Running the Operations and Maintenance FA models requires that the user answer several system-supplied questions: eight answers for the Operations and Maintenance model without price deflators (FA #2), and 13 answers for the Operations and Maintenance model with price deflators (FA #12), not including a project name. Only the questions not concerned with price deflators are discussed here. Price deflation and how to answer price deflator questions in the forecast models are explained later. Figure 33 is an example of an Operations and Maintenance run.

"Project name:"

Any phrase that describes the action being modeled. It will be printed with the output and serve as a label. This is especially useful when several alternative scenarios are proposed and run for a single military action.

"If entering total expenditures, enter 1
local expenditures, enter 2:"

If the user knows and will be entering annual expenditures for services and supplies going to local firms, then the value 2 (two) should be entered here. The system will then prompt the user for the dollar value of local expenditures for services and supplies. If total annual expenditures for services and supplies are to be entered, then the value of 1 (one) should be entered here. The system will then prompt the user for the total dollar value of annual expenditures for services and supplies.

"Annual expenditures for services and supplies:"

The question is asked if the total annual expenditures for services and supplies are to be entered (i.e., if the user responded to the last question with a value of 1). The dollar value of total annual expenditures for services and supplies is expected. The system will compute the dollar value of annual expenditures for services and supplies going to local firms by default.
OPERATIONS AND MAINTENANCE

Project name: Operations & Maintenance FA Example
(Enter decreases as negative numbers)
If entering total expenditures, enter 1
Local expenditures, enter 2
Annual expenditures for local services and supplies: $250,000
Civilian employment: 43
Average income of civilian personnel: $25,000
Military employment: 200
Average income of military personnel: $12,000
Percent of military living on base: 25

Figure 33. Operations and Maintenance FA.
"Annual expenditures for local services and supplies:"

This question is asked if the annual expenditures for services and supplies made locally are known and are to be entered. This is the dollar value of annual expenditures for services and supplies that are made from local firms.

"Civilian employment:"

The number of civilian personnel involved with the operations and maintenance of the function being analyzed. The Post Personnel Office may be a source of information for this question. A change in the level of operations and maintenance can be analyzed: enter a negative number for a decrease in the level of operations or a positive value for an expansion of activity.

"Average income of civilian personnel:"

Average annual income of civilian employees involved with the operations and maintenance or with the change in activity. Check with the Post Personnel Office for this information. Income, as used in EIFS, is a broader concept than just the wages and salaries of the affected employees. Consideration should be given, whenever appropriate, to unearned income (i.e., interest, dividends, and rents), etc. Average income figures are entered into EIFS as positive numbers.

"Military employment:"

The number of military personnel involved with the operations and maintenance of the function being analyzed. The comments for civilian personnel also apply here.

"Average income of military personnel:"

Average annual income of military personnel involved with the operations and maintenance or with the change in activity. The comments for civilian income also apply here.

"Percent of military personnel living on base:"

The percentage of the military personnel involved with the operations and maintenance of the function being analyzed that resides on the military installation. Check with the Post Personnel Office for this information.

Training FA

The Training FA forecast models compute the economic and social effects generated from military nonbasic training activities. Training activities, as modeled in EIFS, affect the local economy through the locally produced goods and services that are purchased either by the nonbasic trainees or by post procurements. Note that the socioeconomic effects are generated from the nonbasic trainees and not from the civilian or military instructors.
Running the Training FA models requires that the user answer several system-supplied questions: six answers for the Training model without price deflators (FA #3), and ten answers for the Training model with price deflators (FA #13), not including a project name. Only the questions not concerned with price deflators are discussed here. Price deflators and how to answer the price deflator questions in the forecast models are explained on p 73. Figure 34 is an example of a Training FA run.

"Project name:"

Any phrase that describes the action being modeled. It will be printed with the output and serve as a label. This is especially useful when several alternative scenarios are proposed and run for a single military action.

"If entering total expenditures, enter 1
local expenditures, enter 2:"

If the user knows and will be entering the change in annual expenditures for services and supplies made from local firms, then the value 2 (two) should be entered here. The system will then prompt the user for the change in local expenditures for services and supplies. If the change in annual expenditures for all services and supplies is to be entered, then the value 1 (one) should be entered here. The system will then prompt the user for the change in annual expenditures for all services and supplies.

"Change in expenditures for services and supplies:"

This question is asked if the total change in expenditures for services and supplies is to be entered (i.e., if the user responded to the last question with a value of 1). The dollar value of the change in all expenditures for services and supplies is expected. The system will compute the dollar value of the change in local expenditures for services and supplies by default.

"Change in expenditures for local services and supplies:"

This question is asked if the change in local expenditures for services and supplies is known and is to be entered. This is the dollar value of the change in expenditures for services and supplies made from local firms.

"Number of (nonbasic) trainees:"

Number of nonbasic trainees involved in the training activity. For a change in the level of training activity, enter a positive value for an expansion of activity or a negative number for a decrease. The Post Personnel Office may be a source of information for this question.

"Average income of trainees:"

Average annual income of nonbasic trainees. Check with the Post Personnel Office for this information. Income, as used in EIFS, is a broader
FORECAST MODELS - WHICH FUNCTIONAL AREA? ([CR] TO SEE LIST): 3

TRAINING

Project name: Training FA Example
(Enter decreases as negative numbers)
If entering total expenditures, enter 1
local expenditures, enter 2
Change in expenditures for services and supplies: $3,300,000
Change in expenditures for local services and supplies: 1744973.25 (calculated)
Number of (non-basic) trainees: 250
Average income of trainees: $19,500
Percent of trainees living on base: 95

************ TRAINING IMPACT FORECAST FOR Training FA Example ************

Export employment multiplier: 2.1221
Export income multiplier: 1.7604
Change in local sales volume:

Direct: $3,422,000
Induced: $3,840,000
Total: $7,262,000 (0.429%)

Employment:

Direct: 344

Income:

Direct: $5,420,000
Total (place of work): $5,835,000 (0.617%)
Total (place of residence): $5,879,000 (0.514%)

Consumption:

Housing: $1,058,000
Non-housing: $3,704,000

Investment:

Housing: $472,000
Non-housing: $444,000

Number of school children: 12 (0.013%)

Property values:

Housing: $6,441,000 (0.429%)

Government revenues:

Taxes: $364,000
State and Federal aid to schools: $7,000
Government expenditures:

Schools: $3,000
Other: $224,000
Net: $227,000

Figure 34. Training FA.
concept than just the wages and salaries of the affected trainees. Consideration should be given, whenever appropriate, to income earned from second jobs, working dependents, unearned income (i.e., interest, dividends, and rents), etc. Average income figures are entered into EIFS as positive numbers.

"Percent of trainees living on base:"

The percentage of nonbasic trainees residing on the military installation. Check with the Post Personnel Office for this information.

Mission Change FA

The Mission Change FA forecast models estimate the socioeconomic impacts resulting from major changes in activity at a military installation (e.g., a closure of operations at the post or a change in the mission of the personnel at the installation, such as an armor division substituted for an infantry division. Each action would indicate a different mix of civilian and military personnel before and after the action in addition to changes in local procurements of services and supplies.

Like other EIFS forecast models, the Mission Change FA submodels can be used to analyze the regional socioeconomic effects of factory closures or relocations. Note that nonmilitary applications of this FA model will not involve military personnel.

Running the Mission Change FA models requires the user to respond to 19 system-supplied questions: seven for the Mission Change FA model without price deflation (FA #4), and twelve for the model with price deflators (FA #14), not including a project name. Price deflation and how to answer price deflator questions in the forecast models are discussed on p 73, so only the questions not concerned with price deflators are described here. Figure 35 illustrates a mission change FA.

"Project name:"

Any phrase that describes the action being modeled. It will be printed with the output and serve as a label. This is especially useful when several alternative scenarios are proposed and run for a single military action.

"If entering total expenditures, enter 1
local expenditures, enter 2;"

If the user knows and will be entering the change in annual expenditures for services and supplies made from local firms, then the value 2 (two) should be entered here. The system will then prompt the user for the change in local expenditures for services and supplies. If the change in annual expenditures for all services and supplies is to be entered, the value 1 (one) should be entered here. The system will then prompt the user for the change in annual expenditures for all services and supplies.
Forecast Models - which functional area? (<cr> to see list): 4

MISSION CHANGE

Project name: Mission Change FA Example
(Enter decreases as negative numbers)
If entering total expenditures, enter 1
local expenditures, enter 2 1
Change in expenditures for services and supplies: $15,000,000
Change in expenditures for local services and supplies: 7931696.50 (calculated)
Change in civilian employment: 100
Average income of affected civilian personnel: $25,000
Change in military employment: 300
Average income of affected military personnel: $19,000
Percent of military living on base: 30

******* MISSION CHANGE IMPACT FORECAST FOR Mission Change FA Example *******

Export employment multiplier: 2.1221
Export income multiplier: 1.7604
Change in local
Sales volume
Direct: $12,379,000
Induced: $13,891,000
Total: $26,271,000 (1.553%)

Employment
Direct: 741
Total: 1,123 (0.762%)

Income
Total (place of work): $11,673,000 (1.235%)
Total (place of residence): $11,834,000 (1.034%)

Consumption
Housing: $2,130,000
Non-housing: $7,455,000

Investment
Housing: $990,000
Non-housing: $895,000

Number of school children: 241 (0.266%)
The number of school children increased in the rainfall
Government revenues
Taxes: $1,316,000
State and federal aid to schools: $148,000
Government expenditures
Schools: $62,000
Other: $812,000
Net: $874,000

Figure 35. Mission Change FA.
"Change in expenditures for services and supplies:"

This question is asked if the total change in expenditures for services and supplies is to be entered (i.e., if the user responded to the last question with a value of 1). The dollar value of the change in all expenditures for services and supplies is expected. The system will compute the dollar value of the change in local expenditures for services and supplies by default.

"Change in expenditures for local services and supplies:"

This question is asked if the change in local expenditures for services and supplies is known and is to be entered. This is the dollar value of the change in expenditures for services and supplies made from local firms.

"Change in civilian employment:"

The net change in the number of civilian personnel resulting from the mission change action. Check with the Post Personnel Office for this information.

"Average income of affected civilians:"

Average annual income of the civilian employees involved with the mission change. Check with the Post Personnel Office for this information. Income, as used in EIFS, is a broader concept than just the wages and salaries of the affected employees. Consideration should be given, whenever appropriate, to income earned from second jobs, working dependents, unearned income (i.e., interest, dividends, and rents,) etc. Average income figures are entered into EIFS as positive numbers.

"Change in military employment:"

The net change in the number of military personnel because of the mission change action. Check with the Post Personnel Office for this information.

"Average income of affected military personnel:"

Average annual income of the military personnel involved with the mission change. The same comments for civilian income also apply here.

"Percent military personnel living on base:"

The percentage of military personnel involved with the mission change that resides on the military installation. Check the Post Personnel Office for this information.

Contractor/Industrial Type Activity (CITA) FA

CITA FA forecast models evaluate the economic and social impacts from contracting with local firms for services presently being performed by civilian or military personnel. The scenario modeled here includes the negative
socioeconomic effects resulting from the release of civilian and military personnel no longer needed, as well as the reduction of local procurements. These negative impacts are balanced by the positive economic and social consequences of contracting the services that were provided by the released civilian and military personnel to local establishments. Although not originally designed for the purpose, the CITA FA models can be used as more general forms of the Mission Change FA models, in which there are contracting activities as well as personnel and local procurement changes.

Running the CITA FA models requires the user to answer several system-supplied questions: eight questions for the CITA model without price deflators (FA #5), and 14 questions for the CITA model with price deflators (FA #15), not including the project name. Only the questions not concerned with price deflation are discussed here. Price deflation and how to answer the price deflator questions in the forecast models are explained on p 37. Figure 36 gives an example of a CITA FA run.

"Project name:"

Any phrase that describes the action being modeled. It will be printed with the output and serve as a label. This is especially useful when several alternative scenarios are proposed and run for a single military action.

"If entering total expenditures, enter 1
local expenditures, enter 2:"

If the user knows and will be entering the change in annual expenditures for services and supplies made from local firms, then the value 2 (two) should be entered here. The system will then prompt the user for the change in local expenditures for services and supplies. If the change in annual expenditures for all services and supplies is to be entered, then the value 1 (one) should be entered here. The system will then prompt the user for the change in annual expenditures for all services and supplies.

"Change in expenditures for services and supplies:"

This question is asked if the total change in expenditures for services and supplies is to be entered (i.e., if the user responded to the last question with a value of 1). The dollar value of the change in all expenditures for services and supplies is expected. The system will compute the dollar value of the change in local expenditures for services and supplies by default.

"Change in expenditures for local services and supplies:"

This question is asked if the change in local expenditures for services and supplies is known and is to be entered. This is the dollar value of the change in expenditures for services and supplies made from local firms.
Forecast Models - which functional area? (<cr> to see list): 5

CONTRACTOR/INDUSTRIAL TYPE ACTIVITIES (CITA)

Project name: CITA FA Example
(Enter decreases as negative numbers)
If entering total expenditures, enter 1
local expenditures, enter 2
Change in expenditures for local services and supplies: -150,000,000
Estimated value of contract: $125,000,000
Change in civilian employment: -350
Average income of affected civilian personnel: $23,000
Change in military employment: -454
Average income of affected military personnel: $15,500
Percent of affected military living on base: 25

********** CONTRACTOR/INDUSTRIAL FORECAST FOR CITA FA Example **********

Export employment multiplier: 2.1221
Export income multiplier: 1.7604
Change in local
Sales volume
Direct: $-34,628,000
Induced: $-39,062,000
Total: $-73,910,000 ( -4.369%)
Employment
Direct: $1,762
Total: $-2,837 ( -1.925%)
Income
Direct: $-20,638,000
Total (place of work): $-24,858,000 ( -2.629%)
Total (place of residence): $-25,310,000 ( -2.212%)
Consumption
Housing: $-4,556,000
Non-housing: $-15,945,000
Investment
Housing: $-2,118,000
Non-housing: $-1,913,000
Population: 438
Number of school children: -665 ( -0.734%)
Property values
Decrease: $-65,552,000 ( -4.369%)
Government revenues
Taxes: $-3,702,000
State and federal aid to schools: $-408,000
Government expenditures
Schools: $-172,000
Other: $-2,283,000
Net: $-2,496,000

Figure 36. Contractor/Industrial Type activities FA.
"Estimated value of contract:"

This question is asked concerning estimated dollar value of a contract to be performed by a local firm. It is assumed that the firm performing the service is located in the region defined for this analysis, otherwise a value 0 (zero) should be entered.

"Change in civilian employment:"

The change in the number of civilian personnel at the military installation due to the CITA action. Check with the Post Personnel Office for this information. Be sure that personnel included in this figure are those to be released. Those personnel transferred from one function to another on the military installation should not be counted here. Enter a negative number for a decrease in personnel and a positive value for an increase in employment.

"Average income of affected civilian personnel:"

Average annual income of those civilian employees who are affected by the CITA action. Check with the Post Personnel Office for this information. As used in EIFS, income is a broader concept than just the wages and salaries of the affected employees. Consideration should be given, whenever appropriate, to income earned from second jobs, working dependents, unearned income (i.e., interest, dividends, and rents), etc. Average income figures are entered into EIFS as positive numbers.

"Change in military employment:"

The change in the number of military personnel at the military installation due to the CITA action. The comments for civilian employees also apply here.

"Average income of affected military personnel:"

Average annual income of those military personnel affected by the CITA action. The comments for civilian income also apply here.

"Percent of military personnel living on-base:"

The percentage of military personnel who are affected by the CITA action and reside on the military installation. Check with the Post Personnel Office for this information.

Changing Parametric Values

At times, it is important for an analyst to know the parametric values that are used in a model. For example, a detailed report summarizing the results of an economic and social impact analysis of proposed military actions should always include a technical appendix describing the model and its parametric values. Or, a user may wish to perform a sensitivity analysis of changes in local tax rates in response to a military action. Also, an analyst
may believe the value of a parametric value is different than the value calculated from the EIFS database.

In any case, the parametric values for the EIFS forecast models may be reviewed or changed through the "examine and/or change multiplier" profile (§11) (Figure 37). The parametric values are reviewed by typing a RETURN after each parametric value is displayed. To alter any parametric value, the user should type the desired value after the system-supplied value is displayed and then depress the RETURN key.

Price Deflation in EIFS

High rates of inflation since 1972 (the base year for EIFS) have made it increasingly necessary for EIFS users to be aware of the effects of inflationary changes on the economic and social impacts projected by the EIFS forecast models. A user can then take the appropriate actions to mitigate these effects. Appendix G discusses the effects of inflation on the economic and social impacts projected by EIFS and procedures for price deflation. FA #10 within profile #12 (Figure 38) is a brief, on-line discussion of price deflation in EIFS. Appendix H gives some commonly used composite price indexes.

There are three ways of dealing with inflation in the EIFS forecast models. First, one may ignore the problems associated with inflationary changes and use the EIFS forecast models without price deflation (see Figures 32 through 36). The major result of ignoring inflationary changes is that projected economic and social impacts will be larger than they would be if a user had entered monetary values consistent with 1972 prices.

Second, a user may deflate monetary values (e.g., annual income of affected civilian employees) by using the EIFS forecast models with price deflation (i.e., FAs 11 through 15). This is done in two steps: (1) convert input dollar values (expressed in the current dollars for some year) to standardized base year values before the impact computations are made; then (2) convert the dollar values in the output listing from the base year values to a desired reference year (possibly in the future). The user enters the price deflators needed to implement these procedures. Figures 39 through 43 are examples of each of the FAs with price deflators.

Third, a precise method of deflating prices in EIFS, although it may be laborious, is to deflate each monetary input item to base year prices (i.e., 1972), run the PA models without price deflators (FAs 1 through 5), and then inflate the output monetary values to a desired reference year. This method of price deflation has the advantage not only of accounting for the overall price effect of inflation on consumption, but also permits EIFS to model the effects of changing relative prices. That is, even though inflation affects the prices of all goods and services, the prices of some goods are affected more than others. This differential effect can be important in estimating the value of expenditures in "real" or "constant dollar" terms. These issues are explained more fully in Appendix G.
Calculating Multiplier:
Employment Multiplier: 2.1221
Income Multiplier: 1.7604

Which model variables do you want to see or change? (CR to see a list):

Type: To see or change values pertaining to:
1 Multipliers
2 Employment (BEA-1972)
3 Income (BEA-1972)
4 Business
5 Housing
6 Schools
7 Government (Non-school)
8 Personnel and families

- To return to profile selection
CTRL-d To leave eifs

Which model variables do you want to see or change? (CR to see a list):

Existing values are given in parentheses. Type CR to leave the existing value unchanged.

MULTIPLIERS
Employment: (2.121499)
Income: (1.7603602)

Which model variables do you want to see or change? (CR to see a list):

Existing values are given in parentheses. Type CR to leave the existing value unchanged.

EMPLOYMENT (BEA 1972)
Total: (147353)
Wholesale trade: (4155)
Retail trade: (16979)
Construction: (6976)
Services: (18088)

Figure 37. Examine and/or change multiplier profile.
Which model variables do you want to see or change? (<cr> to see a list): 3

Existing values are given in parentheses.
Type <cr> to leave the existing value unchanged.

INCOME (BEA 1972) (in thousands of dollars)
  Total by place of residence: (1144348)
  Total by place of work: (943401)
  Wholesale trade: (33827)
  Retail trade: (105599)
  Construction: (62572)
  Services: (91300)
  Transfer payments: (155225)

Which model variables do you want to see or change? (<cr> to see a list): 4

Existing values are given in parentheses.
Type <cr> to leave the existing value unchanged.

BUSINESS (1972)
  Total business volume: (1.6918641e+09)
  Value added by manufacturing: (2.442e+09)

Which model variables do you want to see or change? (<cr> to see a list): 5

Existing values are given in parentheses.
Type <cr> to leave the existing value unchanged.

HOUSING
  Assessed value of locally assessed real property: (6.9689907e+08)
  Aggregate property taxes: (23998000)
  Aggregate dollar monthly contract rent: (1368825)
  Occupied rental units, rented for cash: (27431)
  Aggregate real estate market value: (1.5005527e+09)
  Constant relating rental income to value: (7.75)

Figure 37. (Cont'd)
Which model variables do you want to see or change? (<> to see a list): 6

Existing values are given in parentheses.
Type <> to leave the existing value unchanged.

SCHOOLS
- Population aged 0-19: (141036)
- School enrollment aged 3-19: (90500)
- Aggregate educational expenditures: (65506000)
- Education cost per-student: (872.4845)
- Proportion of cost covered by federal aid: (0.16169889)
- Proportion of cost covered by state aid: (0.54148763)

Which model variables do you want to see or change? (<> to see a list): 7

Existing values are given in parentheses.
Type <> to leave the existing value unchanged.

GOVERNMENT (NON-SCHOOL)
- Aggregate direct general expenditures: (1.17775e+08)
- State sales tax rate: (0.038213972)
- Proportion of state sales tax revenue kept locally: (0.51139778)

Which model variables do you want to see or change? (<> to see a list): 8

Existing values are given in parentheses.
Type <> to leave the existing value unchanged.

PERSONNEL
- Average number of children per family: (1.5)
- Average family size: (2.5)
- Average propensity for housing expenditures: (0.180000001)
- Average propensity for non-housing expenditures: (0.63)
- Average propensity to invest in housing: (0.099999999)
- Average propensity to invest in non-housing: (0.12)
- Proportion spent locally by permanent personnel
  - Off-base: (0.335000001)
  - On-base: (0.335000001)
- Proportion spent locally by transient personnel (trainees)
  - Off-base: (0.335000001)
  - On-base: (0.335000001)

Figure 37. (Cont'd)
Forecast Models - which functional area? (cr> to see list). 10

SIMPLE PRICE DEFLATION IN EIFS

Recent high rates of inflation have made it increasingly important that some form of price adjustment be made when running the EIFS forecast models. A simple technique has been implemented in the functional area models. First, the input dollar values (expressed in the current dollars of some year) are converted to equivalent dollar values of a standardized base year (currently 1972) before the impact computations are made. And second, the output dollar values are converted from the prices of the base year to the price levels existing for the desired reference year (possibly in the future).

The functional area models accomplish these conversions with price deflators supplied by the user as additional input. There is one deflator input for each dollar-valued input, one for the base year, and one for the desired output reference year (i.e., the year in whose dollars the output is to be expressed).

The following is a list of several types of price deflators that are acceptable for use in EIFS:

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<th>PPI</th>
<th>--- ENR ---</th>
<th>PCE</th>
<th>--- INV ---</th>
<th>GOV'T</th>
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Source: Selected issues of the SURVEY OF CURRENT BUSINESS published by the U.S. Department of Commerce (note: all indexes have been converted to a base year of 1972).

CPI-W is the Consumer Price Index (urban wage earners and clerical workers) for all items.
PPI is the Producer Price Index for all commodities.
ENR are the Engineering News-Record construction cost indexes for building and construction.
PCE is the fixed-weighted price index for personal consumption expenditures.
INV are the fixed-weighted price indexes for non-residential and residential investment expenditures.
GOV'T is the fixed-weighted price index for all government expenditures.

Figure 38. Simple price deflation in EIFS.
Forecast Models - which functional area? (CR> to see list): 11

CONSTRUCTION

Project name: Construction FA with Inflation Adjustment
If entering total expenditures, enter 1
local expenditures: enter 2: 1
Dollar volume of construction project: $4,300,000
Local expenditures of project: 2273753.00 (calculated)
price deflator: 232.3
Percent for labor: 12
Percent for materials: 35
Percent allowed for other: 53.00 (calculated)
Number of military families to move onto base from local region: 150
Average income of affected military personnel: $20,000
price deflator: 237.4
Price deflator for baseline year (1972): 100.0
Price deflator for output: 237.4

******** CONSTRUCTION IMPACT FORECAST FOR Construction FA with Inflation Adjustment ********

Export employment multiplier: 2.1221
Export income multiplier: 1.7604
Change in local-
Sales volume Direct: $795,000
Induced: $892,000
Total: $1,687,000 (0.042%)
Employment Direct: 22
Total: 32 (0.022%)
Income Direct: $406,000
Total (place of work): $502,000 (0.022%)
Total (place of residence): $512,000 (0.019%)
Consumption Housing: $-152,000
Non-housing: $323,000
Investment Housing: $-71,000
Non-housing: $39,000
Number of school children: $-144 (0.160%)
Property values: $1,496,000 (0.042%)
Government revenues: $84,000
State and federal aid to schools: $-210,000
Government expenditures Schools: $-89,000
Other: $52,000
Net: $-37,000

Figure 39. Construction FA with simple price deflation.
Forecast Models - which functional area?  (cr to see list): 12

OPERATIONS AND MAINTENANCE

Project name: Operations & Maintenance FA with Inflation Adjustment
(Enter decreases as negative numbers)
If entering total expenditures, enter 1
local expenditures, enter 2: 1
Annual expenditures for services and supplies: $2,300,000
Annual expenditures for local services and supplies: $2,194,938 (calculated)
price deflator: 234.0
Civilian employment: -234
Average income of civilian personnel: $23,000
price deflator: 237.4
Military employment: -12
Average income of military personnel: $19,000
price deflator: 237.4
Percent of military living on base: 45
Price deflator for baseline year (1972): 100.0
Price deflator for output: 237.4

****** OPERATIONS AND MAINTENANCE FORECAST FOR Operations & Maintenance FA with Inflation Adjustment ******

Export employment multiplier: 2.1221
Export income multiplier: 1.7604
Change in local
Sales volume Direct: $-5,691,000
Induced: $-6,387,000
Total: $-12,078,000 (-0.301%)
Employment Direct: $-312
Total: $-386 (-0.202%)
Income Direct: $-6,517,000
Total (place of work): $-7,207,000 (-0.31%)
Total (place of residence): $-7,281,000 (-0.308%)
Consumption Housing: $-1,311,000
Non-housing: $-4,587,000
Investment Housing: $-609,000
Non-housing: $-950,000
Number of school children -232 (-0.25%)
Property values Direct: $-10,712,000 (-0.301%)
Government revenues Taxes: $-605,000
State and federal aid to schools: $-327,000
Government expenditures Schools: $-142,000
Other: $-373,000
Net: $-516,000

Figure 40. Operations and Maintenance FA with simple price deflation.
Forecast Models - which functional area? (<cr> to see list): 13

TRAINING

Project name: Training FA with Inflation Adjustment
(Enter decreases as negative numbers)
If entering total expenditures, enter 1
local expenditures, enter 2 : 1
Change in expenditures for services and supplies: $12,000,000
Change in expenditures for local services and supplies: 6345357.00 (calculated)
price deflator: 254.5
Number of (non-basic) trainees: 133
Average income of trainees: $12,000
price deflator: 237.4
Percent of trainees living on base: 80
Price deflator for baseline year (1972): 100.0
Price deflator for output: 237.4

******** TRAINING IMPACT FORECAST FOR Training FA with Inflation Adjustment ********

Export employment multiplier:
Export income multiplier:
Change in local
Sales volume
Direct:
Induced:
Total:

Employment
Direct:
Total:

Income
Direct:
Total (place of work):
Total (place of residence):
Consumption
Housing:
Non-housing:
Investment
Housing:
Non-housing:
Number of school children:
Property values
Taxes:
State and Federal aid to schools:
Government expenditures
Other:
Net:

$6,344,000
3,423,000
3,307,000
631,000
2,100,000
294,000
263,000
26
12,255,000
692,000
37,000
16,000
427,000
443,000

2,122
1.7604

Direct: 6,311,000
Induced: 7,306,000
Total: 13,818,000
(0.344%)

Direct: 2,634,000
Total (place of work): 3,423,000
(0.133%)

Total (place of residence): 3,307,000
(0.129%)

Housing:
Non-housing:
263,000
26

(0.028%)

12,255,000
(0.344%)

Figure 41. Training FA with simple price deflation.
Forecast Models - which functional area? (cr to see list): 14

MISSION CHANGE

Project name: Mission Change FA with Inflation Adjustment
(Enter decreases as negative numbers)
If entering total expenditures, enter 1
local expenditures, enter 2 : 2
Change in expenditures for local services and supplies: $10,000,000
price deflator: 254.5
Change in civilian employment: -110
Average income of affected civilian personnel: $12,000
price deflator: 237.4
Change in military employment: -50
Average income of affected military personnel: $18,000
price deflator: 237.4
Percent of military living on base: 33
Price deflator for baseline year (1972): 100.0
Price deflator for output: 237.4

MISSION CHANGE IMPACT FORECAST FOR Mission Change FA with Inflation Adjustment

Export employment multiplier: 2.1221
Export income multiplier: 1.7604
Change in local
Sales volume.................. Direct: $ -10,807,000
Induced: $ -12,127,000
Total: $ -22,935,000 (-0.571%)
Employment.................. Direct: $ -285
Total: $ -426 (-0.289%)
Income.................. Direct: $ -3,942,000
Total (place of work): $ -5,252,000 (-0.234%)
Total (place of residence): $ -5,392,000 (-0.198%)
Consumption........... Housing: $ -971,000
Non-housing: $ -3,397,000
Investment........... Housing: $ -481,000
Non-housing: $ -408,000
Number of school children........... $ -138 (-0.153%)
Property values............. $ -20,341,000 (-0.571%)
Government revenues........ Taxes: $ -1,149,000
State and federal aid to schools: $ -201,000
Government expenditures... Schools: $ -85,000
Other: $ -709,000
Net: $ -793,000

Figure 42. Mission change FA with simple price deflation.
Forecast Models - which functional area? (CITA) to see list: 15

CONTRACTOR/INDUSTRIAL TYPE ACTIVITIES (CITA)

Project name: CITA FA with Inflation Adjustment
(Enter decreases as negative numbers)
If entering total expenditures, enter 1
local expenditures, enter 2: 1
Change in expenditures for services and supplies: -81,500,000
Change in expenditures for local services and supplies: -793,169,63 (calculated)
price deflator: 234.5
Estimated value of contract: $2,000,000
price deflator: 234.5
Change in civilian employment: -125
Average income of affected civilian personnel: $25,000
price deflator: 237.4
Change in military employment: -80
Average income of affected military personnel: $21,000
price deflator: 237.4
Percent of affected military living on base: 25
Price deflator for baseline year (1972): 100.0
Price deflator for output: 237.4

******** CONTRACTOR/INDUSTRIAL FORECAST FOR CITA FA with Inflation Adjustment ********

Export employment multiplier: 2.122
Export income multiplier: 1.760%
Change in local sales volume Direct: $2,195,000
Induced: $2,463,000
Total: $4,658,000 (-0.116%)
Employment Direct: $230
Total: $259 (-0.176%)
Income Direct: $5,155,000
Total (place of work): $5,421,000 (-0.242%)
Consumption Housing: $781,000
Non-housing: $3,433,000
Investment Housing: $456,000
Non-housing: $412,000
Population -178 (-0.197%)
Property values $4,132,000 (-0.116%)
Government revenues Taxes: $233,000
State and federal aid to schools $239,000
Government expenditures Schools $109,000
Other: $144,000
Net: $233,000

Figure 43. Contractor/Industrial Type Activities FA with simple price deflation.
SUMMARY

This report has provided a functional manual for using EIFS that will be useful to DOD planners, analysts, and engineers. It identifies and clarifies the various profiles within EIFS which represent both the system's initial profiles and those developed to meet specific needs of its users. These profiles also represent an expansion of the system's analytical capabilities.

This manual is designed to be somewhat independent of the internal analytical structure of EIFS; the information here should be used only as introductory guidance to EIFS to establish an historical perspective for its use. For information about more specific issues, the user should refer to separate technical documents or seek on-line assistance.
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APPENDIX A: FORECAST MODEL EQUATIONS

CONSTRUCTION

\[ \Delta \text{EX}1 = \Delta \text{EX}p \ast (1 - 1/\text{Me}) \]
\[ \Delta \text{EX}11 = \%c1 \ast \Delta \text{EX}1 \]
\[ \Delta \text{EX}1m = \%cm \ast \Delta \text{EX}1 \]
\[ \Delta \text{BV}d = \Delta \text{EX}1m \ast (bh + bo) \ast \Delta \text{EX}11 \]
\[ - r \ast [12 \ast r \ast (\%off \ast \%on) \ast \text{Ym}] \]
\[ \Delta \text{BV}t = \Delta \text{BV}d \ast \text{Ms} \]
\[ \Delta \text{BV}i = \Delta \text{BV}t - \Delta \text{BV}d \]
\[ \Delta \text{EM}d = (\Delta \text{BV}d / \text{TS}spw) \ast (\Delta \text{EX}11 / \text{Cypw}) \]
\[ \Delta \text{EM}t = (\Delta \text{BV}d / \text{TS}spw) \ast \text{Me} \ast (\Delta \text{EX}11 / \text{Cypw}) \]
\[ \Delta \text{Y}d = (\Delta \text{BV}d / \text{TS}spw) \ast \text{TS}ypw + \Delta \text{EX}11 \]
\[ \Delta \text{Y}tw = (\Delta \text{BV}d / \text{TS}spw) \ast \text{TS}ypw \ast \text{My} \ast \Delta \text{EX}11 \]
\[ \Delta \text{Y}tr = (\Delta \text{BV}d / \text{TS}spw) \ast \text{TS}ypw \ast \text{My} \ast \text{radj} + \Delta \text{EX}11 \]
\[ \Delta \text{Ch} = (bh \ast \Delta \text{Y}tr) - (12 \ast r \ast F) \]
\[ \Delta \text{Co} = bo \ast \Delta \text{Y}tr \]
\[ \Delta \text{I}h = ih \ast \text{rpv} \ast \Delta \text{Ch} \]
\[ \Delta \text{I}o = io \ast \Delta \text{Co} \]
\[ \Delta \text{S} = \%c \ast c \ast F \]
\[ \Delta \text{PV} = (av / amv) \ast (\Delta \text{BV}t / \text{tbv}72) \]
\[ \Delta \text{GR}e = (\%af + \%as) \ast sc \ast \Delta \text{S} \]
\[ \Delta \text{GR}o = (tp \ast \Delta \text{PV}) + (\%st \ast ts \ast \Delta \text{BV}t) \]
\[ \Delta \text{GR}t = \Delta \text{GR}e + \Delta \text{GR}o \]
\[ \Delta \text{GE}e = [1 - (\%af + \%as)] \ast sc \ast \Delta \text{S} \]
\[ \Delta \text{GE}o = gb \ast (\text{BV}t / \text{tbv}72) \]
\[ \Delta \text{GE}t = \Delta \text{GE}e + \Delta \text{GE}o \]
\[ \Delta \text{GE}n = \Delta \text{GE}t - \Delta \text{GR}t \]
ΔE1 = ΔEx * (1 - 1/Me)
ΔBVd = ΔE1 + (bh + bo) * (Pc * Yc) + [(Zon * Zm) + (Zoff + bh) * (1 - Zm)] * (Pm * Ym)
ΔBVt = ΔBVd * Ms
ΔBi = ΔBVt - ΔBVd
ΔEMd = (ΔBVd / TSspw) + Pc + Pm
ΔEMt = (ΔBVd / TSspv) * Me + Pc + Pm
ΔYd = (ΔBVd / TSspw) * Tsy p + (Pc * Yc) + (Pm * Ym)
ΔYtw = (ΔBVd / TSspw) * Tsy p * My + (Pc * Yc) + (Pm * Ym)
ΔYtr = (ΔBVd / TSspw) * Tsy p * My * radj + (Pc * Yc) + (Pm * Ym)
ΔCh = bh * ΔYtr
ΔCo = bo * ΔYtr
ΔIh = ih * rvp * ΔCh
ΔIo = io * ΔCo
ΔS = Zc * c * [(1 - Zm) * Pm + Pc]
ΔPV = (av / amv) * (ΔBVt / tbv72)
ΔRe = (Zaf + Zas) * sc * ΔS
ΔR = (tp * ΔPV) + (Zst * ts * ΔBVt)
ΔRt = ΔRe + ΔRo
ΔE = [1 - (Zaf + Zas)] * sc * ΔS
ΔEO = gb * (ΔBVt / tbv72)
ΔE = ΔE + ΔEO
ΔEn = ΔE - ΔRt
OPERATIONS AND MAINTENANCE

\[ \Delta X1 = \Delta Xp \times (1 - 1/Me) \]

\[ \Delta BVd = \Delta X1 + (bh + bo) \times (Pc \times Yc) + [(\%on \times Zm) + (\%off \times bh) \times (1 - Zm)] \times (Pm \times Ym) \]

\[ \Delta BVt = \Delta BVd \times Ms \]

\[ \Delta BVi = \Delta BVt - \Delta BVd \]

\[ \Delta EMd = (\Delta BVd / TSspw) \times Pc + Pm \]

\[ \Delta EMt = (\Delta BVd / TSspw) \times Me + Pc + Pm \]

\[ \Delta Yd = (\Delta BVd / TSspw) \times TSypw + (Pc \times Yc) + (Pm \times Ym) \]

\[ \Delta Ytw = (\Delta BVd / TSspw) \times TSypw \times My + (Pc \times Yc) + (Pm \times Ym) \]

\[ \Delta Ytr = (\Delta BVd / TSspw) \times TSypw \times My \times radj + (Pc \times Yc) + (Pm \times Ym) \]

\[ \Delta Ch = bh \times \Delta Ytr \]

\[ \Delta Co = bo \times \Delta Ytr \]

\[ \Delta Ih = ih \times rpv \times \Delta Ch \]

\[ \Delta Io = io \times \Delta Co \]

\[ \Delta S = Zc \times c \times [(1 - Zm) \times Pm + Pc] \]

\[ \Delta PV = (av \div amv) \times (\Delta BVt / tvb72) \]

\[ \Delta GRx = (\%af + \%as) \times sc \times \Delta S \]

\[ \Delta GRO = (tp \times \Delta PV) \times (\%st \times ts \times \Delta BVt) \]

\[ \Delta GRt = \Delta GRx + \Delta GRO \]

\[ \Delta GEe = [1 - (\%af + \%as)] \times sc \times \Delta S \]

\[ \Delta GEO = gb \times (\Delta BVt / tvb72) \]

\[ \Delta GET = \Delta GEe + \Delta GEO \]

\[ \Delta GEN = \Delta GET - \Delta GRt \]
TRAINING

\[ \Delta \text{EX} = \Delta \text{EX} \times (1 - 1/Me) \]
\[ \Delta \text{BV} = \Delta \text{EX} + [(X_{on} \times Z_{m}) + (X_{off} + bh) \times (1 - Z_{m})] \times (P \times Y) \]
\[ \Delta \text{BV} = \Delta \text{BV} \times M \]
\[ \Delta \text{BV} = \Delta \text{BV} \times \Delta \text{BV} \]
\[ \Delta \text{EM} = (\Delta \text{BV} / T_{spw}) \times P \]
\[ \Delta \text{EM} = (\Delta \text{BV} / T_{spw}) \times Me \times P \]
\[ \Delta Y = (\Delta \text{EM} / T_{spw}) \times T_{spw} \times (P \times Y) \]
\[ \Delta Y = (\Delta Y / T_{spw}) \times T_{spw} \times My \times (P \times Y) \]
\[ \Delta Y = (\Delta Y / T_{spw}) \times T_{spw} \times My \times radj \times (P \times Y) \]
\[ \Delta \text{Ch} = bh \times \Delta Y \]
\[ \Delta \text{Co} = bo \times \Delta Y \]
\[ \Delta \text{Ih} = ih \times rpv \times \Delta \text{Ch} \]
\[ \Delta \text{Io} = io \times \Delta \text{Co} \]
\[ \Delta S = \frac{Zc}{c} \times [(1 - Z_{m}) \times P \]
\[ \Delta \text{PV} = (av / amv) \times (\Delta \text{BV} / t_{bv72}) \]
\[ \Delta \text{GR} = (X_{af} + Z_{as}) \times sc \times \Delta S \]
\[ \Delta \text{GR} = (t_{p} \times \Delta \text{PV}) + (Z_{mt} \times ts \times \Delta \text{BV}) \]
\[ \Delta \text{GR} = \Delta \text{GR} \times \Delta \text{GR} \]
\[ \Delta \text{Ge} = [1 - (Z_{af} + Z_{as})] \times sc \times \Delta S \]
\[ \Delta \text{Ge} = gb \times (\Delta \text{BV} / t_{bv72}) \]
\[ \Delta \text{Ge} = \Delta \text{Ge} + \Delta \text{Ge} \]
\[ \Delta \text{Ge} = \Delta \text{Ge} - \Delta \text{Ge} \]
CONTRACTOR/INDUSTRIAL-TYPE ACTIVITIES

\[ \Delta EX_1 = \Delta EX_p \times (1 - l/ Me) \]

\[ \Delta BVd = \Delta EX_1 + \Delta EX_c + (bh + bo) \times (Pc \times Yc) \\
+ [(\%on \times \%m) + (\%off \times bh) \times (1 - \%m)] \times (Pm \times Ym) \]

\[ \Delta BVt = \Delta BVd \times M_s \]

\[ \Delta BVi = \Delta BVt - \Delta BVd \]

\[ \Delta EMd = (\Delta BVd / TSspw) \times Pc + Pm \]

\[ \Delta EMt = (\Delta BVd / TSspw) \times Me + Pc + Pm \]

\[ \Delta Yd = (\Delta BVd / TSspw) \times TSypw + (Pc \times Yc) + (Pm \times Ym) \]

\[ \Delta Ytw = (\Delta BVd / TSspw) \times TSypw \times My + (Pc \times Yc) \\
+ (Pm \times Ym) \]

\[ \Delta Ytr = (\Delta BVd / TSspw) \times TSypw \times My \times \text{radj} + (Pc \times Yc) \\
+ (Pm \times Ym) \]

\[ \Delta Ch = bh \times \Delta Ytr \]

\[ \Delta Co = bo \times \Delta Ytr \]

\[ \Delta Ih = ih \times rpv \times \Delta Ch \]

\[ \Delta Io = io \times \Delta Co \]

\[ \Delta S = %c \times c \times [(1 - \%m) \times Pm + Pc] \]

\[ \Delta PV = (av / amv) \times (\Delta BVt / tbv72) \]

\[ \Delta GRe = (Zaf + Zas) \times sc \times \Delta S \]

\[ \Delta GRo = (tp \times \Delta PV) \times (\%st \times ts \times \Delta BVt) \]

\[ \Delta GRe = \Delta GRe + \Delta GRo \]

\[ \Delta GEe = [1 - (Zaf + Zas)] \times sc \times \Delta S \]

\[ \Delta GEo = gb \times (\Delta BVt / tbv72) \]

\[ \Delta GET = \Delta GEe + \Delta GEo \]

\[ \Delta GEN = \Delta GET - \Delta GRe \]
USER-SUPPLIED VARIABLES

**ΔExc**  Dollar value of the contracted service for the Contractor/Industrial Type Activities FA forecast model: this figure is assumed to represent a contract with a local business establishment.

**ΔExl**  Dollar value of post expenditures for local services and supplies that are related to the military action: this figure is either entered by the user directly (if it is known) or computed by default. Items supplies by GSA or DLA should not be included, unless they can be traced to local manufacturers. The Post Comptroller may be a source of information to determine the dollar value and place of origin of post expenditures. The local area for post expenditures should be the same as the study region defined by the user (i.e., upon entering EIFS). A negative value is entered for a decrease in military activity and a positive value is used if there is an expansion. Note, that for the Construction FA forecast model this represents local construction expenditures, otherwise these are local expenditures for services and supplies.

**ΔExp**  Dollar value of post expenditures for all services and supplies that are related to the military action: this figure is entered by the user when the local purchases are not known. The system will then compute the local purchases by default. Items supplies by GSA or DLA are not normally included. The Post Comptroller may be a source of information for determining this value. A negative value is entered for a decrease in military activity and a positive value is used if there is an expansion. Note, that for the Construction FA forecast model this represents construction expenditures, otherwise these are expenditures for services and supplies.

**F**  Number of military families moving on-post from the user-defined region of influence into newly constructed post housing. It is assumed that there is only one military employee per family.

**Pc**  Number of civilian personnel affected by the military action: these are separated or newly added civilian employees. Personnel transferred from one position to another on-post or within the same geographic area should not be included. Enter a positive number for an increase or a negative number for a decrease.

**Pm**  Number of military personnel affected by the military action: these are the transferred (out of the region) or newly added military personnel. Personnel shifted from one position to another on-post or transferred within the same geographic area should not be included. Enter a positive number for an expansion or a negative for a decrease. For the Training FA forecast model, these are non-basic trainee-type military personnel.
Yc  Average annual income of civilian personnel affected by the military action; however, this may not always be known accurately during planning stages. Check with the Post Personnel Office for this information. Income, in EIFS, is a broader concept than just the wages and salaries of employees. Consideration should also be given, if possible, to income earned from second jobs, working dependents, unearned income (i.e., interest, dividends, and rents), etc. Average income figures are entered into EIFS as positive numbers.

Ym  Average annual income of all military personnel affected by the military action. The same comments about Yc also apply here.

Zcl  Percentage of construction expenditures used to hire labor: this is the total labor requirements for the construction project.

SOURCES: (1) Check with a local construction firm; (2) The latest CENSUS OF CONSTRUCTION (US Bureau of the Census) has state-specific receipts and expenditures by type of construction activity, including expenditures for labor and materials; (3) The latest NATIONAL INPUT-OUTPUT STUDY (US Bureau of Economic Analysis) also has construction receipts and expenditures by type of construction activity; however, the level of detail for construction material expenditures is much greater than in the CENSUS OF CONSTRUCTION.

Zcm  Percentage of construction expenditures used to purchase materials and supplies. The same comments and data sources as for Zcl also apply here.

Zm  Percentage of affected military personnel residing on-post. Check with the Post Personnel Office for this information.
SYSTEM-SUPPLIED VARIABLES

amv Assessed to market value ratio for local property.

av Total assessed value of local real property.

bh The average propensity to consume local housing out of personal income. A breakdown of consumer expenditures revealed little variation for different levels of income except at very low levels. A national constant value of .16 is used in EIFS. This estimate corresponds to the statistics published in the Strategic Air Command Manual 173-661, SALARY IMPACT REPORT (B3500) (March 1975).
SOURCES: (1) THE 1967 MARKET PROFILES OF CONSUMER PRODUCTS (National Industries Conference Board); (2) THE 1976 FEDERAL EMPLOYEES ALMANAC (Federal Employees News Digest); (3) THE 1974 MILITARY MARKET FACTS BOOK (Army Times Magazine); and (4) 1975 SELECTED MANPOWER STATISTICS (U.S. Department of Defense).

bo The average propensity to consume local nonhousing type goods and services out of personal income. A national average value of .63 is currently being used in EIFS. This statistic is derived in the same manner and from the same data sources as the average propensity to consume local housing (bh).

c The average number of children per military family. A national average value of 1.5 children per military family is used in EIFS.

gb The local government operating budget, excluding education. Educational expenditures are subtracted from local government direct general expenditures.

ih The average propensity to invest in local housing out of rental income. A national average value of .06 is currently used in EIFS.
SOURCES: (1) THE 1967 ANNUAL STATISTICAL SUMMARY (U.S. Department of Housing and Urban Development) and (2) THE HUD STATISTICAL YEARBOOK (U.S. Department of Housing and Urban Development).

io The average propensity to invest in local nonhousing type business activity. A national average value of .12 is currently used in EIFS.
The average monthly rent. It is computed by dividing total regional rental receipts by the number of renters in the area.


A residence adjustment to convert income by place of work to income by place of residence. At present, only a crude adjustment for local commuting patterns is made. It is the ratio of total personal income by place of residence (less transfer payments) to total earnings by place of work for 1972.

SOURCE: BEA REGIONAL ECONOMIC INFORMATION SYSTEM (U.S. Bureau of Economic Analysis).

A constant relating rental income to the value of rental property. A national average value of 7.75 is used in EIFS.


The cost of education per child. It is the expenditures per pupil in average daily attendance in public elementary and secondary day schools, by state, for the 1972-73 school year.


Total local business volume for 1972. It is calculated by summing total local retail and wholesale trade sales, total local services receipts, and value added for local manufacturers.


The local property tax rate. It is derived by dividing regional property tax revenues by the total assessed value of local real property.


The state sales tax rate as of 1 July 1974.

SOURCE: ANALYSIS STAFF (U.S. Treasury Department).

Construction sector earnings per worker. This is the local ratio of construction sector earnings to construction sector employment for 1972.

SOURCE: BEA REGIONAL ECONOMIC INFORMATION SYSTEM (U.S. Bureau of Economic Analysis).
<table>
<thead>
<tr>
<th>Me</th>
<th>The export-employment multiplier based on the &quot;location quotient&quot; methodology.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ms</td>
<td>The export-sales multiplier based on the &quot;location quotient&quot; methodology.</td>
</tr>
<tr>
<td></td>
<td>At present, the export-employment multiplier (Me) is used as a &quot;proxy&quot; until research can be carried out.</td>
</tr>
<tr>
<td>My</td>
<td>The export-income multiplier based on the &quot;location quotient&quot; methodology.</td>
</tr>
<tr>
<td></td>
<td>SOURCES: (1) 1972 COUNTY BUSINESS PATTERNS (U.S. Bureau of the Census), and (2) BEA REGIONAL ECONOMIC INFORMATION SYSTEM (U.S. Bureau of Economic Analysis).</td>
</tr>
<tr>
<td>TSpw</td>
<td>Trade and service sector sales per worker ratio. This is the local ratio of the value of sales to the number of employees for retail and wholesale trade and selected service sectors in 1972.</td>
</tr>
<tr>
<td></td>
<td>SOURCES: (1) 1972 CENSUS OF BUSINESS (U.S. Bureau of the Census) and (2) BEA REGIONAL ECONOMIC INFORMATION SYSTEM (U.S. Bureau of Economic Analysis).</td>
</tr>
<tr>
<td>TSpw</td>
<td>Trade and service sector earnings per worker ratio. This is the local ratio of earnings to employment for retail and wholesale trade and selected services sector in 1972.</td>
</tr>
<tr>
<td></td>
<td>SOURCE: BEA REGIONAL ECONOMIC INFORMATION SYSTEM (U.S. Bureau of Economic Analysis).</td>
</tr>
<tr>
<td>Zaf</td>
<td>Percentage of local educational expenditures financed by Federal aid.</td>
</tr>
<tr>
<td>Zas</td>
<td>Percentage of local education expenditures financed by State aid.</td>
</tr>
<tr>
<td>Zc</td>
<td>Percentage of children attending local schools. It is the ratio of school children to the total number of persons under 18 years of age.</td>
</tr>
<tr>
<td>Zoff</td>
<td>Percentage of income spent locally by military personnel residing off-post. A national average value of .335 is currently used in EIFS.</td>
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</table>
\%on Percentage of income spent locally by military personnel residing on-post. The same value is used here as is used for \%off, at least until better data become available.

\%st Percentage of state sales tax retained by local governments.

SOURCE: STATE TAX GUIDE (Commerce Clearinghouse).
CALCULATED VARIABLES

$\Delta BV_d$ Direct change in housing activity attributable to the military action. This represents the change in sales volume at local retail and wholesale trade merchants and at local business, personal, and professional service establishments where the civilian and military personnel spend their wages and salaries and where local procurements are made.

$\Delta BV_i$ Induced change in local business volume due to the military action. Business volume is defined as local business activity or sales and is the sum of total retail and wholesale trade sales, total selected service receipts, and value-added by manufacturing.

$\Delta BV_t$ Total change in local business volume due to the military action.

$\Delta Ch$ Change in local consumer expenditures for housing. No distinction is made between owner-occupied and renter-occupied housing.

$\Delta Co$ Change in local consumer expenditures, excluding local expenditures for housing.

$\Delta EM_d$ Direct change in local employment due to the military action. These are assumed to be the employees of the local retail, wholesale, and service establishments that are initially affected by the military action plus, in addition, the affected military and civilian personnel.

$\Delta EM_t$ Total change in local employment due to the military action. This not only includes the direct and secondary changes in local employment, but also includes those personnel who are initially affected by the military action.

$\Delta EX_l$ Dollar value of post expenditures for local services and supplies that are related to the military action. When computed by default, this figure is estimated by multiplying the total expenditures for services and supplies (i.e., $\Delta EX_p$) by a factor representing the local availability of services and supplies. At present, the local availability of services and supplies is measured by $(1 - 1/Me)$.

$\Delta EX_{1l}$ Change in construction project expenditures used to hire local labor.

$\Delta EX_{1m}$ Change in construction project expenditures used to purchase local services and supplies.

$\Delta GE_e$ Change in local government education expenditures due to the military action.

$\Delta GE_n$ Net change in local government expenditures due to the military action.
ΔGEo Change in local government expenditures other than for education due to the military action. These expenditures provide local fire and police protection, sanitation, welfare and income assistance, parks and recreation, public transportation, etc.

ΔGET Total change in local government expenditures due to the military action.

ΔGRE Change in Federal and State aid for education due to the military action.

ΔGRO Change in local government property and sales tax revenues due to the military action.

ΔGRT Total change in local government revenues due to the military action.

ΔIH Change in investment for local housing--both rental and owner-occupied.

ΔIO Change in investment for local non-housing type business activity.

ΔPOP Change in local population due to the military action.

ΔPV Change in the value of local real property.

ΔS Change in the number of children attending local public schools due to the military action. These children are the dependents of the civilian and military personnel affected by the military action.

SalAdj This is a factor used in the CITA FA forecast model to estimate a population change due to a CITA action.

ΔYd Direct change in local wages and salaries due to the military action. This is assumed to be earnings of the employees in local retail, wholesale, and service establishments that are initially affected by the military action plus the income of the affected civilian and military personnel.

ΔYtr Total change in local personal income of residents due to the military action. This not only includes the direct and secondary changes in local personal income, adjusted for commuting patterns, but also includes the income of the civilian and military personnel initially affected by the military action.

ΔYtw Total change in local wages and salaries earned in the area due to the military action. This is the sum of the direct and secondary changes in wages and salaries plus the income of the civilian and military personnel affected by the military action.
APPENDIX B: DEFINING STUDY AREAS

Introduction

Upon entering EIFS, the first question a user is asked is how he/she wants to define the study area. Mechanically, this task is simple: all one does is specify one or more counties. EIFS will carry out the necessary aggregations of its database to coincide with the desired geographic delineation. But how does one decide which counties to include and which counties to exclude? It is always the analyst's responsibility to define and be able to justify the region of interest. For a person not accustomed to carrying out regional analyses, justifying a particular study area may not be easy. Even among experienced regional analysts, delineating a study region is a thorny problem, but a very important issue. The justification of study areas is usually ignored—perhaps because the region is predefined (e.g., for an analysis of the fiscal impact of a tax cut within the State of Illinois) or maybe because the regions were the only available units of observation for a "cross-section" study.

With respect to military actions, such as installation closures, defining the geographic region of influence to analyze the economic and social effects of those actions has often proven to be very important and controversial. Its importance lies in the fact that the magnitude of the economic impacts is known to vary with the size of the study area. That is, the economic impact of a military action on an entire state will generally be greater in absolute terms than the impact experienced in a single county. On the other hand, the economic impact will usually be greater at the local level if it is compared to current levels of economic activity.

Unfortunately, few universally accepted rules are available to help an analyst choose a study area. Thus, a region must be defined somewhat subjectively or arbitrarily. This means that careful thought and judgment should be exercised when delineating regions. Therefore, the following discussion provides several conceptual foundations and some practical advice to help EIFS users define and justify their study areas.

The Concept of a Region

Other than a geographic aggregate, what is a region? If an economist, geographer, cartographer, weather analyst, or forester were asked to define a region, there would probably be as many different answers as people questioned. This diversity of opinion is due mostly to the different uses of spatial aggregates.

Edgar Hoover describes the nature of regions as follows:

Common to all definitions of a region is the idea of a geographic area constituting an entity, so that significant statements can be made about the area as a whole. . . . Basic to the idea of a region is a high degree of correlation of behavior among its various parts.

With respect to the first aspect, regions are useful for at least three reasons. First, aggregating space into a region so that the area can be described by its characteristics is more efficient and, at times, more useful than examining its parts. For example, it is more convenient to compute and examine totals or averages for a county as a whole than to examine the individual census returns. Second, analyzing information for a regional aggregate can be enlightening only if the activities within the area are interdependent. And finally, administering, planning, and implementing public policies can be more efficient if the basic data are aggregated to correspond to the area being administered.

The second aspect of a region insures that the geographic aggregate "makes sense." That is, before the region can be useful, the parts of the geographic region must be interrelated in terms of the purpose for the spatial aggregation. In other words, one cannot study the impact of floods on the populace residing in a floodplain if the floodplain's geographic area is not defined. The same is true of analyzing the economic and social impacts of a military action; i.e., the geographic area affected by the military action must be delineated.

Three conceptual types of regions are described within the regional analysis literature: administrative, homogeneous, and functional. Regions are sometimes delineated along administrative or political boundaries (e.g., the State of Alabama). It is claimed that since the institutional framework within which economic and social policies are designed and implemented is of overriding importance, then the geographic unit of analysis should coincide with the same administrative or political boundaries. Also, specialized data are often compiled and reported only for administrative areas or political units. The major problem with using administrative units for regional economic impact analysis is that they rarely correspond to meaningful economic units. That is, trading or commuting patterns are not normally inhibited from crossing administrative or political boundaries such as county or state lines.

Homogeneity of one form or another can be used to justify some regions. For example, one can envision a coal mining region, a river-basin region, an air pollution region, or even a German-speaking area. What binds these areas is usually some common physical, economic, social, or statistical characteristic. Again, as with administrative regions, the interrelationships that define economic areas usually do not coincide with the extent of a river basin's floodplain for instance.

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Most regional and urban analysts performing socioeconomic impact analysis prefer the functional area concept for defining study regions. Regions defined in this way explicitly consider the economic linkages and spatial dimensions between and among the residential population and businesses located in the geographic area. In other words, commuting and trading patterns are of prime concern. This type of region is often called "nodal" because:

... the region is perceived as being composed of heterogeneous nodes of different size (cities, towns, villages and sparsely populated rural areas) that are linked together functionally. These functional links can be identified through observation of flows of people, factors, goods and communications.

Examination of a map shows that population and businesses are not spread evenly over space, but are concentrated at specific locations called "agglomerations." The factors that generate these agglomerations are varied: e.g., transportation advantages (such as the confluence of several rivers), resource deposits, factor endowments, local infrastructure (such as good schools and public transportation facilities), climate, and even proximity to firms that supply needed production requirements or provide ready markets.

Practical Issues

In defining study areas, one important issue is determining the smallest geographic unit for which data are available. This is important not only for defining regions, but also for carrying out analyses (especially socioeconomic impact analyses). Within EIFS, the county is the smallest geographic unit available for delineating study areas for impact analysis. From past experience, county aggregates have been quite adequate for defining regions to carry out economic and social impact analyses. Although some data are available at the census tract level (e.g., population and income) which could possibly be used to delineate regions, the data needed to analyze economic impacts are readily available only at the county level, unless one is willing to conduct expensive and time-consuming surveys. The EIFS database does contain income and population estimates for census tracts and minor civil districts, but these data are not used to define study areas or to carry out socioeconomic impact analyses.

With respect to impact analyses, it is probably obvious that a region should be the geographic area in which the significant economic and social consequences of the project occur. But beyond the general conceptual guidelines for region types and the restriction of using counties as the smallest

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22 Harry W. Richardson, Regional Economics (University of Illinois Press, 1979), p 21.

geographic units, there is not much formal advice about defining regions that can be given to EIFS users. However an analyst decides to delineate a study area, the decision will have to be based on his/her considered judgment, possibly from past experience, and on any specific knowledge of the area.

It may be useful to imagine a study area being comprised of two parts. The first, which may be called the "primary impact area," is the geographic area where those civilian and military personnel and their dependents directly affected by the proposed military action reside and shop. The second part, the "secondary impact area," is generally larger than the primary impact area, but also consists of the geographic area which is likely to capture the significant secondary economic impacts resulting from the spending behavior of the affected personnel and their dependents and any past expenditures for services and supplies affected by the action.

Of the two, rigorously defining the primary impact area is probably easier, because it is usually determined by the residence pattern of the affected civilian and military personnel (i.e., assuming they and their dependents shop near their residences). If the geographic pattern of expenditures by the affected personnel and their dependents is expected to differ greatly from their residence pattern, then some effort should also be made to determine the spatial pattern for expenditures. The primary impact area is likely to be the area in which the demographic and social effects of a military action are likely to be the most intense; thus, it is apt to be the area where most of the controversy is generated.

There are two ways to delineate primary impact areas. The first is to consult a map and, using a convenient radius, specify the geographic area surrounding the installation within which post employees are likely to reside and shop. In other words, "how far do the affected civilian and military personnel commute to work?" Note that it is wise to include all counties that fall within the commuting radius, either in total or in part. A recent survey of many Air Force personnel (both civilian and military) indicates that fewer than 1 percent reside more than 50 miles from the base where they work. Appendix D provides the regional definitions of primary impact areas for selected military installation, based on a commuting radius of 50 miles.

If a proposed military action is expected to generate significant economic and social effects or if it is likely to be controversial with nearby communities, then a more rigorous definition of the primary impact area may be advisable; i.e., determine the actual residential and shopping patterns of the affected personnel. This can be done either by survey or by using information from personnel records. Then a simple "rule of thumb" can be adopted: e.g., "if 5 percent or more of the affected personnel reside in a particular county, then that county should be included in the primary impact area." The exact percentage for this limitation is determined by judgment and will undoubtedly depend on the significance of the expected impacts or the level of controversy they are likely to generate. If the residence pattern of the affected civilian and military personnel cannot be determined with assurance (e.g., the

24J. Gunther, Table 10 of A Socioeconomic Survey of Air Force Employees, a report prepared for Headquarters Air Force Engineering and Services Center (Tyndall AFB, Fl, November 1982), p 17.
specific personnel to be affected by the action may not be identified), then the residence pattern of the entire installation work force may be substitut-
ed. Keep in mind that the geographic area may change if the residence pattern of the work force for the entire installation is much different than that of those employees directly affected by the proposed military action.

The task of defining the secondary impact area is not as straightforward as determining the primary impact area. Actually, this is equivalent to answering the following questions:

1. Where are the post expenditures for supplies and services made?

2. Where do the merchants that provide personnel and post operations with goods and services purchase their inventories?

3. Where do the employees of these local establishments reside?

In other words, the secondary impact area is the geographic region in which all the spending, responding, and productive activities implied by the "multiplier process" occur. Considering the importance of trade activity in the multiplier process, the secondary impact area should not only contain the pri-
mary impact area, but also any nearby trade and service centers and their mar-
ket areas as well. In practice, this means that the study area for analyzing impacts of most military actions (i.e., the secondary impact area) will be larger than the primary impact area. However, two qualifications must be con-
sidered:

In general, the more sparsely settled a study area, the larger will be the market area of the wholesale-retail center with the consequence that the regional (secondary) impact area will include large areas and will differ sub-
stantially from the local (primary) impact area. In more densely settled parts of the country, less difference will exist in the geographic boundaries of the two areas and in many parts of the East and the Upper Midwest, the two areas may coincide.  

An obvious choice for a major regional trade and service center to be included as part of the secondary impact area is a Standard Metropolitan Statistical Area (SMSA). SMSAs are likely choices because they include a central city or cities and the surrounding territory that is economically and socially dominated by the city. A major criterion for determining the bound-
aries of SMSAs is the commuting patterns of workers; however, the area included must be densely settled. Consequently, not all areas of the country fall within the boundaries of an SMSA. This is unfortunate because if the primary impact area does not fall within the limits of any SMSA, the analyst must decide which SMSA to include in the secondary impact area. One could

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choose the nearest SMSA to the primary impact area, but the nearest SMSA may not be the trade and service center that most attracts the merchants of the primary impact area. Appendix F shows the SMSAs and their constituent counties.

An alternative choice for secondary impact areas is the Bureau of Economic Analysis (BEA) economic areas. These areas (183 in all, covering all of the United States, including Alaska and Hawaii) were delineated specifically from the principles for functional economic areas (as proposed by Fox and Kumar) and are good choices as secondary impact areas. To be specific:

The Bureau of Economic Analysis (BEA) Economic Areas are nodal functional areas delineated to facilitate regional economical analysis. Each area consists of an economic node—a standard metropolitan statistical area (SMSA), or similar area, that serves as a center of economic activity—and the surrounding counties that are economically related to the center. To the extent possible, each area includes the place-of-work and place-of-residence of its labor force.

For rural counties, where commuting patterns cannot be determined by economic ties, the assignment to BEA economic areas was made with supplemental data, such as metropolitan newspaper circulation figures and the advice of State and local officials who were familiar with the geographic and economic characteristics of the areas. Final delineations were made after a review by State planning offices, university bureaus of business and economic research, and field offices of Federal agencies involved in water resource planning. Appendix E lists BEA economic areas and their constituent counties.

27K. A. Fox and T. K. Kumar, pp 57-85.
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rocky mountain arsenal
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08005 arapahoe, co
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08035 douglas, co
08039 elbert, co
08047 gilpin, co
08059 jefferson, co
08123 weld, co

st louis army ammo plant
st. louis army ammo plant
17013 calhoun, il
17027 clinton, il
17083 jersey, il
17117 macoupin, il
17119 madison, il
17133 monroe, il
17163 st clair, il
29071 franklin, mo
29099 jefferson, mo
29183 st charles, mo
29189 st louis, mo
29510 st louis city, mo

fort rodman
25001 barnstable, ma
25005 bristol, ma
25007 dukes, ma
25023 plymouth, ma
44001 bristol, ri
44003 kent, ri
44005 newport, ri
44007 providence, ri
44009 washington, ri

fort sam houston
48013 atascosa, tx
48019 bandera, tx
48029 bexar, tx
48091 comal, tx
48187 guadalupe, tx
48259 kendall, tx
48325 medina, tx
48493 wilson, tx

camp san luis obispo
06079 san luis obispo, ca
06083 santa barbara, ca

fort rucker
01005 barbour, al
01031 coffee, al
01039 covington, al
01041 crenshaw, al
01045 dale, al
01061 geneva, al
01067 henry, al
01069 houston, al
01109 pike, al
12059 holmes, fl
12063 jackson, fl

savanna army depot
17005 amador, ca
06017 el dorado, ca
06061 placer, ca
06067 sacramento, ca
06077 san joaquin, ca
06095 solano, ca
06101 sutter, ca
06113 yolo, ca

saginaw army aircraft plant
48113 dallas, tx
48121 denton, tx
48139 ellis, tx
48221 hood, tx
48251 johnson, tx
48367 parker, tx
48439 tarrant, tx
48497 wise, tx

schofield barracks
15001 hawaii, hi
15003 honolulu, hi
15007 kaau, hi
15009 maui, hi

saginaw army aircraft plant
17109 carroll, il
17107 clinton, il
17105 jackson, il
17108 JO daviess, il
17141 ogle, il
17161 rock island, il
17177 stephenson, il
17195 whiteside, il

fort scott
06001 alameda, ca
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sunflower ammo plant (cont)
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20209 wyandotte, ks

tarheel army missile plant
37001alamance, nc
37033caswell, nc
37037chatham, nc
37063durham, nc
37081guilford, nc
37135orange, nc
37145person, nc
37151randolph, nc
37197rockingham, nc

fort tilden
34003 bergen, nj
34013 essex, nj
34017 hudson, nj
34023middlesex, nj
34025 monmouth, nj
34031passaic, nj
34039 union, nj
36005 bronx, ny
36047 kings, ny
36059 nassau, ny
36061 new york, ny
36081 queens, ny
36085 richmond, ny
36103 suffolk, ny
36119 westchester, ny

tyndall afb
12005 bay, fl
12013 calhoun, fl
12045 gulf, fl
12077 liberty, fl
12133 washington, fl

washington dc
district of columbia
11000 district of columbia

watervliet arsenal
36001 albany, ny
36083 rensselaer, ny
36091 saratoga, ny
36093 schenectady, ny

webb afb
48033 borden, tx
48115 dawson, tx
48173 glasscock, tx
48227 howard, tx
48317 martin, tx
48329 midland, tx

webb afb (cont)
48335 mitchell, tx
48415 scurry, tx
48431 sterling, tx

west point military res
usma
09001 fairfield, ct
34003 bergen, nj
34031 passaic, nj
34037 sussex, nj
36027 dutchess, ny
36071 orange, ny
36079 putnam, ny
36087 rockland, ny
36105 sullivan, ny
36111 ulster, ny
36119 westchester, ny

white sands missile range
white sands
39013 dona ana, nm
39027 lincoln, nm
39035 otero, nm
39051 sierra, nm
39053 socorro, nm

fort wolters
48143 erath, tx
48221 hood, tx
48237 jack, tx
48363 palo pinto, tx
48367 parker, tx
48429 stephens, tx
48497 wise, tx
48503 young, tx

wright patterson afb
wright-patterson afb
39017 butler, oh
39021 champaign, oh
39023 clark, oh
39027 clinton, oh
39037 darke, oh
39047 fayette, oh
39057 greene, oh
39097 madison, oh
39109 miami, oh
39113 montgomery, oh
39135 preble, oh
39149 shelby, oh
39163 warren, oh

yuma proving grounds
04027 yuma, az
06025 imperial, ca
### APPENDIX E: 1977 BEA ECONOMIC AREAS

#### Aberdeen SD BEA
- b148 bea
  - 46013 brown, sd
  - 46025 clark, sd
  - 46029 codington, sd
  - 46037 day, sd
  - 46039 deuel, sd
  - 46045 edmunds, sd
  - 46049 faulk, sd
  - 46051 grant, sd
  - 46057 hamlin, sd
  - 46091 marshall, sd
  - 46109 roberts, sd
  - 46115 spink, sd

#### Albany GA BEA (cont)
- 13185 lowndes, ga
- 13201 miller, ga
- 13205 mitchell, ga
- 13243 randolph, ga
- 13253 seminole, ga
- 13273 terrell, ga
- 13275 thomas, ga
- 13277 tift, ga
- 13287 turner, ga
- 13321 worth, ga

#### Albion NY BEA
- Schenectady NY BEA

#### Troy NY BEA
- b007 bea
- 36001 albany, ny
- 36003 clinton, ny
- 36021 columbia, ny
- 36031 essex, ny
- 36035 fulton, ny
- 36039 greene, ny
- 36041 hamilton, ny
- 36057 montgomery, ny
- 36083 rensselaer, ny
- 36091 saratoga, ny
- 36093 schenectady, ny
- 36095 schoharie, ny
- 36113 warren, ny
- 36115 washington, ny
- 50003 bennington, vt

#### Albuquerque NM BEA

#### B160 bea
- 35001 bernalillo, nm
- 35003 catron, nm
- 35007 colfax, nm
- 35011 de baca, nm
- 35019 guadalupe, nm
- 35027 lincoln, nm
- 35028 los alamos, nm
- 35031 mc kinley, nm
- 35033 mora, nm
- 35039 rio arriba, nm
- 35043 sandoval, nm
- 35045 san juan, nm
- 35047 san miguel, nm
- 35049 santa fe, nm
- 35053 socorro, nm
- 35055 taos, nm
- 35057 torrance, nm
- 35061 valencia, nm
amarillo, tx, boa

anchorage, ak, boa (cont)

b135 boa

02170 matanuska susitna, ak
02180 nome, ak
02190 outer ketchikan, ak
02200 prince of wales, ak
02210 seward, ak
02220 sitka, ak
02230 skagway yakutat, ak
02240 southeast fairbanks, ak
02250 upper yucon, ak
02260 valdez chitina whittier, ak
02270 wade hampton, ak
02280 wrangell petersburg, ak
02290 yukon koyukuk, ak

anderson, in, boa

muncie, in, boa

b078 boa

18009 blackford, in
18035 delaware, in
18041 fayette, in
18065 henry, in
18075 jay, in
18095 madison, in
18135 randolph, in
18161 union, in
18177 wayne, in

appleton, wi, boa

green bay, wi, boa

oshkosh, wi, boa

b094 boa

26003 alger, mi
26013 baraga, mi
26041 delta, mi
26043 dickinson, mi
26061 houghton, mi
26071 iron, mi
26083 keweenaw, mi
26103 marquette, mi
26109 menominee, mi
26133 schoolcraft, mi
55009 brown, wi
55015 calumet, wi
55029 door, wi
55037 florence, wi
55039 fond du lac, wi
55041 forest, wi
55047 green lake, wi
55061 kewaunee, wi
55071 manitowoc, wi
55075 marinette, wi
55083 oconto, wi
55087 outagamie, wi
55133 waupaca, wi
55135 waushara, wi
appleton wi boa (cont)
55139 winnebago, wi
55901 shawano menominee, wi

asheville nc boa
b030 boa
37011 avery, nc
37021 buncombe, nc
37039 cherokee, nc
37043 clay, nc
37075 graham, nc
37087 haywood, nc
37089 henderson, nc
37099 jackson, nc
37111 mc dowell, nc
37113 macon, nc
37115 madison, nc
37121 mitchell, nc
37173 swain, nc
37175 transylvania, nc
37199 yancey, nc

atlanta ga boa (cont)
13171 lamar, ga
13187 lumpkin, ga
13195 madison, ga
13211 morgan, ga
13217 newton, ga
13219 oconee, ga
13221 oglesboro, ga
13223 paulding, ga
13227 pickens, ga
13231 pike, ga
13233 polk, ga
13241 rabun, ga
13247 rockdale, ga
13255 spalding, ga
13257 stephens, ga
13281 towns, ga
13291 union, ga
13293 upson, ga
13297 walton, ga
13311 white, ga

asheville nc boa
b030 boa
37011 avery, nc
37021 buncombe, nc
37039 cherokee, nc
37043 clay, nc
37075 graham, nc
37087 haywood, nc
37089 henderson, nc
37099 jackson, nc
37111 mc dowell, nc
37113 macon, nc
37115 madison, nc
37121 mitchell, nc
37173 swain, nc
37175 transylvania, nc
37199 yancey, nc

atlanta ga boa (cont)
13171 lamar, ga
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13291 union, ga
13293 upson, ga
13297 walton, ga
13311 white, ga

augusta ga boa
b035 boa
13303 burke, ga
13307 columbia, ga
13307 emanuel, ga
13315 glasscock, ga
13316 jefferson, ga
13316 jenkins, ga
13318 lincoln, ga
13318 mc duffie, ga
13324 richmond, ga
13326 taliaferro, ga
13331 warren, ga
13331 wilkes, ga
45003 aiken, sc
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45011 barnwell, sc
45037 edgefield, sc
45065 mc cormick, sc

atlanta ga boa (cont)
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13195 madison, ga
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13316 jenkins, ga
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13187 lumpkin, ga
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augusta ga boa
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atlanta ga boa (cont)
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45037 edgefield, sc
45065 mc cormick, sc

austin tx boa
b123 boa
48021 bastrop, tx
48031 blanco, tx
48053 burnet, tx
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48287 lee, tx
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**Note:** The table above represents a list of cities and their respective states and zip codes. Each entry is formatted as `City, State, Zip Code`. The table is structured in a tabular format for clarity.
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- Lincoln, MO
- Madison, MO
- Maries, MO
- Mississippi, MO
- Montgomery, MO
- Perry, MO
- Phelps, MO
- Reynolds, MO
- Ripley, MO
- St. Charles, MO
- St. Francois, MO
- St. Louis, MO
- Ste. Genevieve, MO
- Scott, MO
- Stoddard, MO
- Warren, MO
- Washington, MO
- Wayne, MO
- St. Louis City, MO

**Tallahassee, FL**
- Gadsden, FL
- Jackson, FL
- Jefferson, FL
- Leon, FL
- Liberty, FL
- Madison, FL
- Taylor, FL
- Wakulla, FL

**St. Petersburg, FL**
- Charlotte, FL
- Citrus, FL
- Collier, FL
- De Soto, FL
- Hardee, FL
- Hernando, FL
- Hillsborough, FL
- Lee, FL
- Manatee, FL
- Pasco, FL
- Pinellas, FL
- Polk, FL
- Sarasota, FL

**Stockton, CA**
- Alpine, CA
- Amador, CA
- Calaveras, CA
- Mariposa, CA
- Merced, CA
- San Joaquin, CA
- Stanislaus, CA
- Tuolumne, CA

**Modesto, CA**
- Alpine, CA
- Amador, CA
- Calaveras, CA
- Mariposa, CA
- Merced, CA
- San Joaquin, CA
- Stanislaus, CA
- Tuolumne, CA

**Syracuse, NY**
- Cayuga, NY
- Cortland, NY
- Franklin, NY
- Herkimer, NY
- Jefferson, NY
- Lewis, NY
- Madison, NY
- Oneida, NY
- Onondaga, NY
- Oswego, NY
- St. Lawrence, NY

**Utica, NY**
- Cayuga, NY
- Cortland, NY
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- Herkimer, NY
- Jefferson, NY
- Lewis, NY
- Madison, NY
- Oneida, NY
- Onondaga, NY
- Oswego, NY
- St. Lawrence, NY

**Texarkana, TX**
- Bowie, TX
- Camp, TX
- Cass, TX
- Lamar, TX
- Morris, TX

**Terre Haute, IN**
- Clark, IN
- Crawford, IN
- Clay, IN
- Parke, IN
- Sullivan, IN
- Vermillion, IN
- Vigo, IN

**B044, B119 Area Codes**

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APPENDIX F: STANDARD METROPOLITAN STATISTICAL AREAS

(Many of the Standard Metropolitan Statistical Areas [SMSAs] have several names. In EIPS, SMSAs can be referenced by any of the names listed here. Please pay attention to the spelling.)

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atlanta smsa
s03520 smsa
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13037 cherokee, ga
13063 clayton, ga
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13135 gwinnett, ga
13191 henry, ga
13217 newton, ga
13223 paulding, ga
13247 rockdale, ga
13297 Walton, ga
atlantic city nj smsa
atlantic city smsa
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augusta ga smsa
s0600 smsa
13073 columbia, ga
13245 richmond, ga
45003 aiken, sc
austin tx smsa
austin smsa
s0640 smsa
48209 hays, tx
48453 travis, tx
bakersfield ca smsa
bakersfield smsa
s0680 smsa
06029 kern, ca
baltimore md smsa
baltimore smsa
s0720 smsa
24003 anne arundel, md
24005 baltimore, md
24013 carroll, md
24025 harford, md
24027 howard, md
24510 baltimore city, md
baton rouge la smsa
baton rouge smsa
s0760 smsa
22003 ascension, la
22033 east baton rouge, la
22063 livingston, la
22121 west baton rouge, la
battle creek mi smsa
battle creek smsa
s0780 smsa
26015 barry, mi
26025 calhoun, mi
bay city mi smsa
bay city smsa
s0800 smsa
26017 bay, mi
beaumont tx smsa
port arthur tx smsa
orange tx smsa
beaumont smsa
port arthur smsa
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48245 jefferson, tx
48361 orange, tx
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s0880 smsa
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biloxi ms smsa
gulfport ms smsa
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s0920 smsa
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28047 harrison, ms
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binghamton smsa
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36107 tioga, ny
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birmingham al smsa
birmingham smsa
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bloomington il smsa
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 1080 smsa
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lowell ma smsa
brookton ma smsa
lawrence ma smsa
haverhill ma smsa
boston smsa
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stamford ct smsa
norwalk ct smsa
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brownsville tx smsa
harlingen tx smsa
san benito tx smsa
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bryan tx smsa
college station tx smsa
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s1280 smsa
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 36063 niagara, ny
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s1300 smsa
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burlington vt smsa
s1299 smsa
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cedar rapids smsa
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urbana il smsa
rantoul il smsa
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north charleston sc smsa
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gastonia nc smsa
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 13295 walker, ga
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 47115 marion, tn
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cheyenne smsa
s1579 smsa
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fort smith ar smsa
greeley co smsa
greeley smsa
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green bay wi smsa
green bay smsa
s3080 smsa
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winston-salem nc smsa
greensboro nc smsa
high point nc smsa
winston-salem smsa
s3120 smsa
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37067 forsyth, nc
37081 guilford, nc
37151 randolph, nc
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greensboro nc smsa
gainesville fl smsa
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pickens, sc
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perry, pa
gary in smsa
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gary smsa
42099 perry, pa
east chicago smsa
hartford pa smsa
east chicago in smsa
harrsiburg pa smsa
hammond smsa
harrisburg smsa
harrisburg smsa
s3240 smsa
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east chicago smsa
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hammond smsa
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new britain ct smsa
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grand rapids mi smsa
bristol ct smsa
s3000 smsa
s3283 smsa
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grand rapids smsa
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great falls smsa
honolulu hi smsa
s3040 smsa
horseshoe crk, hi
30013 cascade, mt
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Temple TX SMSA
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  48099 Coryell, TX

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Knoxville SMSA
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  47009 Blount, TN
  47093 Knox, TN
  47173 Union, TN

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  55063 La Crosse, WI

Lafayette in SMSA
West Lafayette in SMSA
s3920 SMSA
  18157 Tippecanoe, IN

Lafayette LA SMSA
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  22055 Lafayette, LA

Lake Charles LA SMSA
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  22019 Calcasieu, LA

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Winter Haven FL SMSA
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  26065 Ingham, MI
  26067 Ionia, MI

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Little Rock SMSA
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elyria oh smsa
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long beach ca smsa
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colonial heights va smsa
hopewell va smsa
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phoenix smsa
s6200 smsa
 04013 maricopa, az

pine bluff ar smsa
pine bluff smsa
s6240 smsa
 05069 jefferson, ar

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 42007 beaver, pa
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 42129 westmoreland, pa

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 25003 berkshire, ma

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 25003 berkshire, ma

portland me smsa
s6403 smsa
 23005 cumberland, me
 23023 sagadahoc, me

portland me smsa
s6403 smsa
 23005 cumberland, me
 23023 sagadahoc, me

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 41005 clackamas, or
 41051 multnomah, or
 41067 washington, or
 53011 clark, wa

portland or smsa
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 41051 multnomah, or
 41067 washington, or
 53011 clark, wa

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poughkeepsie smsa
s6460 smsa
 36027 dutchess, ny

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 36027 dutchess, ny

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warwick ri smsa
pawtucket ri smsa
providence smsa
s6483 smsa
 44001 bristol, ri
 44003 kent, ri
 44007 providence, ri
 44009 washington, ri

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orem ut smsa
provo smsa
s6520 smsa
 49049 utah, ut

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pueblo smsa
s6560 smsa
 08101 pueblo, co

racine wi smsa
racine smsa
s6600 smsa
 55101 racine, wi

raleigh nc smsa
durham nc smsa
raleigh smsa
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 37063 durham, nc
 37135 orange, nc
 37183 wake, nc

reading pa smsa
s6680 smsa
 42011 berks, pa

reno nv smsa
reno smsa
s6720 smsa
 32031 washoe, nv

richland wa smsa
kennewick wa smsa
s6740 smsa
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 53021 franklin, wa

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richmond smsa
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APPENDIX G: DEFLATING MONETARY VALUES

Introduction

The stated purpose of the EIFS forecast models is to estimate the economic and social changes that can occur in a region because of various types of military actions. Like most regional economic models, EIFS does this with a series of equations whose parametric values are computed with reference to the year 1972. As a result, technical relationships of the EIFS forecast models reflect the economic conditions of 1972. Among the changes that have occurred in the U.S. economy since 1972, probably the most striking has been the high rate of inflation. Normally, inflation is handled in economic models by deflating current monetary values of model inputs in terms of the model's reference year (1972 in this case).

In its simplest form, a monetary value is the product of price and quantity. Therefore, the task of price deflation is to separate the prices from the quantities within monetary values. The importance of this is easily understood in the context of economic models like EIFS. For example, a military action generally leads to changes in demand for locally produced goods and services; this, in turn, leads to changes in demand for locally available productive requirements through the technical relationships that exist between inputs and outputs. Furthermore, these relationships, combined with the local availability of inputs, determines the magnitude of the secondary economic and social effects. The technical relationships of a region's industrial sector (which are so important here) are, in reality, the physical relationships between the commodities that are manufactured and the things that go into their making. Consequently, it is very important that the input information provided by the user be as consistent with the technical relationships of the EIFS forecast models as possible.

Inflation has two effects on measuring the monetary evaluation of physical quantities that are important for properly using the EIFS forecast models. First, inflation reduces the overall purchasing power of expenditures. Second, inflation alters the mix of commodities purchased by expenditures. That is, although inflation generally affects the prices for all goods and services, some commodities are more affected than others. Thus, the relationship between the prices of commodities changes due to the differential effects of inflation (or as economists like to say, "the relative prices of goods and services change"). As this occurs, consumers and producers purchase more of some things and less of others, especially when some "substitutability" between commodities exists. This happens because consumers and producers attempt to reduce the deleterious effects that inflation has on their general welfare or profit situation.

Thus, to use the EIFS forecast models properly (i.e., to account for the effects of inflation since 1972), a user should restate the user-supplied monetary input information in terms that are consistent with the economic conditions of 1972.
Price Indexes

A price index is a number that indicates a relative change in the price of a commodity over time or that shows the relative change in an average of the prices for several goods over time. Price indexes are compiled with reference to a base year (e.g., 1967) and computed in relation to a standard value (e.g., 1967 = 100). Restating a price index in terms of another base year is done by dividing its current value by the price index for the desired base year. The resultant price index can be stated in terms of a standard value (e.g., new base year = 100) by multiplying it by the standard value.

Arithmetically, deflating monetary values is simple: just multiply the monetary value by the ratio of the standard value to the appropriate price index. If the standard value is equal to one, then deflating a monetary value is computed by dividing the monetary value by the price index. This does not mean that actual physical quantity values have been determined (e.g., bushels of wheat). Instead, the monetary values have been made consistent with the prices that existed during the reference period. That is, the effects of price changes since the base period have been removed, revealing the changes in the physical quantities since the base year (expressed in terms of the prices for the base period).

There are two types of price indexes: commodity price indexes and composite price indexes. A commodity price index is a price index for a specific good or service (such as cotton) or for a narrowly defined group of commodities (e.g., household appliances). Deflating the change in expenditures due to a military action by type of product or by industrial sector permits a user to accurately estimate the relevant change in expenditures, because the differential effects of inflation on the relative prices of goods and services are taken into account. Detailed-level commodity price indexes are published monthly in terms of the prices paid by producers and consumers. An analyst should check with the U.S. Bureau of Labor Statistics for copies of the reports, Producer Prices and Price Indexes and CPI Detailed Report. These reports will contain the latest available commodity price indexes.

Whereas a commodity price index reflects the relative price change for a specific commodity or for a narrowly defined group of goods and services, a composite price index is the average relative change in prices for a broad range of commodities over time. Composite price indexes have been compiled for many groups of commodities (e.g., consumer expenditures, construction expenditures, government purchases, and investment expenditures). Appendix H gives a selected group of commonly used composite price indexes. The latest annual values of these indexes will also be available within EIFS. A good source for many composite price indexes is a current issue of the Survey of Current Business, published by the U.S. Bureau of Economic Analysis.

Because composite price indexes are weighted averages of relative price changes for specific commodities, their proper use depends on whether the quantity weights used in their calculation are relevant to the situation to which they are being applied. They can be useful when applied appropriately, especially to deflate expenditures for which the pattern of commodities purchased is not known; however, they can present problems for impact analysis when they are used improperly. For example, probably the most widely used price index for measuring the overall rate of inflation is the Consumer Price
Index (CPI). Evidence for this statement is that the CPI is used to determine the change in benefits paid to recipients of programs such as Social Security, Federal Retirement, many State retirement programs, and even some wage contracts negotiated by unions. But there seems to be little understanding of or little attention paid to the procedures used to compile the CPI. Specifically, the CPI is computed using commodity prices paid by urban residents and weighted by an expenditure pattern that existed during the 1972-1973 period. Thus, it seems inappropriate to deflate the consumer expenditures made by residents of a rural area or military installation expenditures for services and supplies using a CPI, because the expenditure pattern for urban residents is not likely to be the same.

An analyst should also be aware of the time period that the quantity weights for the component commodities are chosen. Composite price indexes that are computed using a fixed set of quantity weights are called "fixed-weighted price indexes." Because the quantity weights are held constant over time, the changes observed in the price index result from price changes. However, the indexes computed by permitting the quantity weights to vary from one period to the next are called "implicit price indexes." As a result, both the weights and prices fluctuate, which makes comparing price indexes for two different years difficult. The most appropriate price index will depend on its use. On the one hand, an implicit price index is good for determining the current rate of inflation, because the most recent set of quantity weights is used; thus, price change implied by an implicit price index reflects the average relative price change for the actual set of goods and services most recently purchased. On the other hand, for computing relative price changes over a period of time (e.g., for deflating expenditures), fixed-weighted price indexes would seem most appropriate when they are available.
### Appendix H: Selected Composite Price Indexes

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Source: Selected issues of the Survey of Current Business.
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(1972 = 100)

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*Source: Selected issues of the Survey of Current Business.*
## APPENDIX I: INDUSTRY NAMES AND CODES AVAILABLE FOR CERL-RIMS ANALYSIS

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The Economic Impact Forecast System (EIFS) is a computer system which provides information useful for estimating the socioeconomic impacts caused by new military projects and activities. After the initial development of EIFS, the U.S. Army Construction Engineering Research Laboratory (CERL) encouraged leading economists and scientists to review the model and provide comments and suggestions for ways to improve it. These suggestions were then incorporated into an updated version of the system. In addition, interaction with users identified problems associated with the logistics of using a truly interactive system.
coupled with the need to provide for some systematic update or modification of EIFS (free of the need for frequent revision of the user manual), it became clear that a more general and logistically oriented user's manual was necessary. This report provides information for obtaining and initially interacting output from current and future versions of EIFS. The information contained in this report supersedes information contained in CERL Technical Report N-2 and the 1979 edition of N-69. Many problems identified by users in interpreting Technical Report N-69 and DA Pamphlet 200-2 have been solved in this updated report.