

GEORGIA INSTITUTE OF TECHNOLOGY
OFFICE OF RESEARCH ADMINISTRATION

RESEARCH PROJECT INITIATION

Handwritten notes:
R.P. Post
C.H.L.

Date: April 11, 1975

Project Title: Development of a Family Planning Regional Data Network

Project No: G-36-614

Principal Investigator: Mr. A. P. Jansen

Sponsor: DHEW/PHS - Region IV; Atlanta, Ga. 30323

Agreement Period: From 4/1/75 Until 3/31/76

Type Agreement: Contract No. 294-75-0002

Amount: \$147,900

Reports Required: Plan & Schedule ; Bimonthly Progress Reports; Tech. Assistance Reports; Prelim. Needs & Equip. Eval; Proposed RDN Objectives; Output Formats Design; Input Formats Design; Prelim. Network Design; Final Input/Output; RDN Implementation Plan; Final Report/Manuals

Technical Matters

Mr. James X. Lococo

ARHA/Planning & Evaluation

Public Health Service

Department of Health, Education and Welfare; Region IV

50-7th Street, N. E.

Atlanta, Ga. 30323

Contractual Matters

Mr. William L. Pinholster

Office of Management Suppt.

Assigned to: School of Information & Computer Science

COPIES TO:

Principal Investigator

School Director

Dean of the College

Director, Research Administration

Director, Financial Affairs (2)

Security Reports Property Office

Patent Coordinator

Library

Rich Electronic Computer Center

Photographic Laboratory

Project File

Other _____

GEORGIA INSTITUTE OF TECHNOLOGY
OFFICE OF CONTRACT ADMINISTRATION

SPONSORED PROJECT TERMINATION

*Posted
10/18*

Date: September 14, 1976

Project Title: Development of A Family Planning Regional Data Network

Project No: G-36-614

Project Director: Mr. A.P. Jensen

Sponsor: DHEW/PHS - Region IV, Atlanta, Georgia 30323

Effective Termination Date: 6/30/76

Clearance of Accounting Charges: ASAP

Grant/Contract Closeout Actions Remaining: None

- Final Invoice and Closing Documents
- Final Fiscal Report
- Final Report of Inventions
- Govt. Property Inventory & Related Certificate
- Classified Material Certificate
- Other _____

Assigned to: Information & Computer Sciences (School/Laboratory)

COPIES TO:

Project Director
Division Chief (EES)
School/Laboratory Director
Dean/Director-EES
Accounting Office
Procurement Office
Security Coordinator (OCA) ✓
Reports Coordinator (OCA)

Library, Technical Reports Section
Office of Computing Services
Director, Physical Plant
EES Information Office
Project File (OCA)
Project Code (GTRI)
Other _____

Ref E/36-614

Georgia
Institute
of
Technology

SCHOOL OF INFORMATION AND COMPUTER SCIENCE / (404) 894-3152 / ATLANTA, GEORGIA 30332

April 14, 1975

TO: Ms. Jean Cobb
Evaluation Specialist, Region IV DHEW

FROM: A. P. Jensen
Senior Research Engineer, Georgia Institute of Technology

SUBJECT: Implementation Plan and Schedule (Family Planning RDN Project)

Dear Jean:

In order to identify existing and anticipated data processing capabilities of the states within Region IV, a site visit to each state is being planned. During these visits, interviews will be conducted with administrators at various levels to determine the extent to which the existing systems satisfy their information requirements and to identify those data elements which the administrators feel should be included in a regional data network. The product of these visits will be a generalized knowledge of the information needs of the various levels of family planning administrators within Region IV, a detailed knowledge of the family planning data bases and information systems currently in use in Region IV, and a catalog of computer routines which are available for implementation within Region IV and can be implemented on either existing or anticipated equipment.

In the event that it becomes desirable to obtain clarifying information or documentation beyond that obtained during the course of the site visits, we assume we have your permission to contact directly any of the following State Data Coordinators/Evaluators whose names you gave to us:

Alabama
Florida
Georgia
Kentucky
Mississippi
North Carolina
South Carolina
Tennessee

Mr. Gene Dickey
Mr. Harry Larsen
Ms. Barbara Capron
Ms. Rondia Burdine
Dr. Stephen L. Moore
Ms. Jane Hedgecock
Mr. Jim Deaton
Mr. Jack Leath

As of this date, we have been informed of the following confirmed site visit dates:

Alabama	May 29 - 30
Florida	May 8 - 9
Kentucky	May 15 - 16
— North Carolina	May 20 - 21
South Carolina	May 22 - 23
Tennessee	April 17 - 18
Georgia	anytime

Please let us know when you decide about the visit to Mississippi. (As we agreed, Georgia can be worked into the schedule at any mutually convenient time during the next two months.)

A site visit protocol is outlined below. It is our understanding that, prior to each site visit, we will meet with you in order to prepare the interview schedule for the upcoming visit and to associate with the topics listed in the protocol the names of specific individuals at the site being visited. Subsequent to that meeting, we will provide you with copies of the protocol (along with the attached data processing capabilities survey instrument) for your approval and for transmission to all of the persons thus identified.

An additional task under this phase of the project will be an investigation of existing computer routines and data which are available for acquisition for use in the RDN. As part of this task we will be reviewing the numerous statistical routines, data base handlers, and report generators available commercially, and considering their relevance to a family planning information system. We may also need to look at the census data purchased by Planned Parenthood under contract HSM-110-71-56; if so, we would like to ask your help in obtaining this information.

Site Visit Protocol

A. Interviews With Appropriate Member(s) of the F. P. Program Staff.

The purpose of the interviews will be to review the current status of the state's family planning information system. Documents which should be available during this review are: completed copies of the Quarterly Monitoring Chart; copies of all data collection forms; and copies of all reports produced by the state family planning information system. The principal topics to be discussed are as follows:

I. Workflow Responsibilities

- A) Description of Workflow
- B) Key People at Each Checkpoint
- C) Timing Factors and Constraints

II Data Elements Review

- A) Female Patient Items
- B) Male Patient Items
- C) Clinic Information
- D) Third Party Data
- E) Fiscal/Management/Budgetary
- F) Facility and Manpower
- G) Vital Statistics

III. Data Quality Control

- A) Error Types
- B) Correction Procedures
- C) Time Factors

IV. Data Collection Procedures

- A) Forms Design
- B) Forms Control and Distribution
- C) Forms Completion

V. Reports Formats/Data Aggregation

- A) Review of Existing Report Formats
- B) Data Aggregation Levels
- C) Output Error Checks
- D) Reports Design and Control
- E) Reports Usage

B. Interviews With Appropriate Member(s) of Data Processing Staff.

The purpose of the interviews will be to determine existing and _____ anticipated data processing capabilities of the state for supporting that state's family planning information system. Documents which should be available during this review are: the completed Survey of Data Processing Capabilities for Family Planning Services (see attached) and copies of all input forms, all programming and system documentation, and all output reports relevant to the state's family planning information system. The principal topics to be discussed are as follows:

I. General Data Processing Capabilities

- A. Site Information
- B. Organization and Staffing
- C. Hardware
- D. Software

II. Data Processing Services Supporting F. P. Program

- A. Site Information
- B. Organization and Staffing
- C. Hardware
- D. Software
- E. Data Processing Procedures

C. Combined Session With Key Members of Family Planning Staff and Data Processing Staff.

The purpose of this session will be to provide an opportunity for a wide-ranging discussion of information problems as seen from the different perspectives of personnel engaged in different roles within the state's overall family planning information system.

Date: _____

State: _____

SURVEY OF STATE DATA PROCESSING CAPABILITIES FOR FAMILY PLANNING *

I. General Data Processing Capabilities

A. Site Information:

Where Located _____

Who Operates _____

Type and Model of Computer(s) _____

Operating System(s) _____

Multiprogramming Capabilities (Circle One) Yes No

Hours of Operation _____

Mean Time Between Failures _____

B. Organization and Staffing:

List Personnel and Position in the Following Departments:
(attach chart if possible)

Administrative: _____

Software: _____

Hardware: _____

* Please use attachments as necessary to provide a full description of your facilities and operations.

Data Preparation: _____

Other: _____

Total Number of Employees _____

C. Hardware

1. Tape Drives

Model _____ Number of Drives _____
BPI _____ Number of Tracks _____

2. Disks

Model _____ Number of Units _____
Storage Capacity/Unit _____

3. Optical Form Reader

Model _____ Number of Readers _____
Speed _____

4. Line Printers

Model _____ Number of Printers _____
Speed _____ Characters/Line _____

5. Card Readers

Model _____ Number of Readers _____
Speed _____

6. Card Punch

Model _____ Number of Punches _____
Speed _____

7. Communications Equipment

Model _____ Number of Terminals _____
Speed _____

8. Plotter

Model _____ Number of Plotters _____

9. Microfiche

Model _____

2. List the Personnel that are Active in and the Percent Time Spent in the Family Planning Program: _____

3. How is Job Priority Established for the FP Programs? How is Run-Time Priority Determined for FP Programs? (Attach Necessary Comments) _____

C. Hardware:

Of the Hardware Indicated in Section I.C., which is Currently Being Used for the Family Planning Project

Tape Drives _____
Disks _____
Optical Form Readers _____
Line Printers _____
Card Readers _____
Card Punch _____
Communications Equipment _____
Plotter _____
Microfiche _____
Other _____

D. Software

1. List Language(s) Used for Family Planning Program

2. List Software Packages Used for Family Planning Program

Package	Vendor	Type Documentation
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

E. Data Processing Procedures, Reports, and Data

1. Time Between Receiving Form(s) and Delivering Reports _____

2. Time Between Request for Minor Programming Changes and Implementation _____

3. Time Between Request for New Programming and Printed Report _____

4. Percent Error of Input Documents _____

5. How are Errors Handled _____

6. Who is Contacted at Your Center for Changes in Data _____

7. Do You Offer Customized Reports (Circle One) Yes No

8. Describe Forms Used to Collect Data

9. Do You Have Cost Data Capabilities (Circle One) Yes No

10. Are Your Forms Readily Available (Circle One) Yes No

11. Are Additional Types of Reports Available on Request
(Circle One) Yes No

12. Are Simple Statistical Measures Used in Reports
(Circle One) Yes No

13. Are Graphic Techniques Included in Reports
(Circle One) Yes No

14. Describe Reports Used for Family Planning Program

15. Data Element Availability Survey. Please put a checkmark next to each data element which is in use in your state's family planning information system. (List is on the following page.)

16. Reports Availability Survey. Please indicate the availability status in your state of each of the report types listed on the last two pages of this survey.

15. Data Elements Survey

1. _____ Clinic Number
2. _____ Patient Number
3. _____ Date of Visit
4. _____ Type of Visit
5. _____ Date of Birth
6. _____ Services Provided (Medical/Counseling)
7. _____ Referrals to Other Programs
8. _____ Past-Visit Contraceptive Method
9. _____ Next Appointment Date
10. _____ Pregnancy History
 - a. _____ Number of Live Births
 - b. _____ Number of Fetal Deaths
 - c. _____ Number of Living Children
11. _____ Welfare Status (P.A./Medicaid Recipient)
12. _____ Educational Attainment Level
13. _____ Place of Birth
14. _____ Latin American Origin or Descent
15. _____ Race
16. _____ Sex
17. _____ Source of Referral
18. _____ Contraceptive History
19. _____ Funding Source
20. _____ Service Site Number and Location
21. _____ Address of Patient
22. _____ Age of Patient
23. _____ Marital Status
24. _____ Name of Patient (Full)
25. _____ Name of Partner, Parent, Guardian
26. _____ Regional Patient Number
27. _____ Religious Preference
28. _____ Social Security Number
29. _____ Telephone Number
30. _____ Encounters
31. _____ Appointment Failures
32. _____ Clinic Last Visited
33. _____ Clinic Professionals Seen
34. _____ Date of Last Visit
35. _____ Patient Type
36. _____ Reason for Closure
37. _____ Session Time
38. _____ Types of Encounters
39. _____ Project Status at Time of Admission
40. _____ Medical History
41. _____ Complications in Contraceptive Use
42. _____ Hospitalization History
43. _____ Follow-Up
44. _____ Family Planning Desires
45. _____ Source of Sex Education
46. _____ Public Services Used
47. _____ Employment Status
48. _____ Financial Status
49. _____ Payment Sources
50. _____ Amount of Payment

16. Reports Availability Survey

	<u>Now Available</u>	<u>Could Be Available</u>	<u>Could Not Be Made Available</u>
1. Accumulative Patient Profile	_____	_____	_____
2. Patient Services - All Patients	_____	_____	_____
3. Patient Services - New Patients	_____	_____	_____
4. Patient Services - Return Patients	_____	_____	_____
5. Clinic Services - Program Contacts	_____	_____	_____
6. Patient Contraceptive Summary	_____	_____	_____
7. Family Planning Desires - Profile #1	_____	_____	_____
8. Education & Employment - Profile #2	_____	_____	_____
9. Economics - Profile #3	_____	_____	_____
10. Community & Social Services - Profile #4	_____	_____	_____
11. Service Group Potential - Profile #5	_____	_____	_____
12. Patient Parity by Age - Profile #6	_____	_____	_____
13. Patient Problem Disposition	_____	_____	_____
14. Physical Exams & Lab Services - New Patients	_____	_____	_____
15. Physical Exams & Lab Services - Return Patients	_____	_____	_____
16. Lab Test Results - All Patients	_____	_____	_____
17. Outreach Follow-Up	_____	_____	_____
18. Patient Dropout Analysis	_____	_____	_____
19. Master Patient	_____	_____	_____
20. Patient Appointment List	_____	_____	_____
21. Missed Appointment/Overdue Patient List	_____	_____	_____
22. Patients by Visit Type	_____	_____	_____
23. Patients by Services Provided	_____	_____	_____
24. Patients by Visit Type and Services Provided	_____	_____	_____

	<u>Now Available</u>	<u>Could Be Available</u>	<u>Could Not Be Made Available</u>
25. Patients by Age, Race, and Sex	_____	_____	_____
26. Patients by Age, Race and Method	_____	_____	_____
27. Patients by Income, Parity, Method and Race	_____	_____	_____
28. Problem Visits by Type, Method and Age	_____	_____	_____
29. Patients by Marital Status, Parity, Age and Method	_____	_____	_____
30. Patient Contraceptive History by Last Method, Present Method, Problem Visit Type	_____	_____	_____
31. Patients on Medicaid and Public Assistance	_____	_____	_____
32. Public Assistance Patients by Parity, Race, Age and Method	_____	_____	_____
33. Source and Number of Third-Party Reimbursements	_____	_____	_____
34. Patient Breakdown by Target Area	_____	_____	_____
35. Patients by Education and Employment Status	_____	_____	_____
36. Discontinuation and Retention Rates by Age, Marital Status Method	_____	_____	_____
37. Employment Status by Income and Parity	_____	_____	_____
38. Patient Payment Analysis	_____	_____	_____
39. Cost Analysis by Seniors - Number and Type of Examinations and Prescriptions Provided	_____	_____	_____
40. Patient Encounters per Physician (per period)	_____	_____	_____
41. Program Cost Breakdown by a Functional Cost	_____	_____	_____

	<u>Now Available</u>	<u>Could Be Available</u>	<u>Could Not Be Made Available</u>
42. Third Party Reimbursement Analysis by Type and Number of Patients	_____	_____	_____
43. Cost Analysis by Type of Method per Encounter	_____	_____	_____
44. Patient Service Costs by Services Provided	_____	_____	_____
45. Laboratory Examination Costs per Patient and Method	_____	_____	_____
46. Average Number of Total Encounters per Total Patients by Services Provided	_____	_____	_____
47. Average Time of Encounters per Services Provided	_____	_____	_____

BIMONTHLY PROGRESS SUMMARY

April 1, 1975 - May 31, 1975

Project G-36-614, Contract. No. 294-75-002

Development of a Family Planning Regional Data Network

I. Survey of State Information Processing Capabilities

A survey of the data processing facilities available to Region IV statewide family planning programs is being conducted. The desired information has been obtained from five of the eight states. The three states which have not yet responded to the survey are Florida, Georgia and Mississippi. An evaluation of that portion of the total information which has, to this date, been made accessible to the project is proceeding continuously; however, the task cannot be completed until the data not yet furnished can be obtained and integrated into the overall analysis. Assurances have been given from the appropriate data coordinators that the three remaining states will have supplied the desired information by the end of June. Current task status: 60% complete.

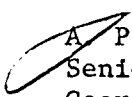
II. Site Interviews at State Family Planning Offices.

Site visits are being made by Georgia Tech representatives working in close cooperation with the DHEW project coordinator. At the present time, site visits have been made to all of the states within Region IV except Mississippi and Florida. The original plan was to have completed all of the required visits during the very first month of the project;

however, this plan had to be abandoned because of unmanageable scheduling conflicts. A visit to the Mississippi statewide family planning office is scheduled for June 17-18, and one to the Florida statewide family planning office is scheduled for June 23-24. Task completion status: 75% complete.

III. Revised Schedule of Reports Due Dates

Because of the scheduling difficulties referred to in the preceding paragraph, DHEW Region IV has agreed to approve a revision of the timetable of due dates for scheduled project reports. This revised timetable reflects the fact that several site visits originally planned for April could not be made until May or June. The principal readjustments pertain only to reports due during the first few months of the project, and this revision does not contain a request for an extension of the project beyond the scheduled originally scheduled completion date of April 1, 1976.

 A. P. Jensen
Senior Research Engineer
Georgia Institute of Technology

REVISED REPORTS DUE DATE SCHEDULE

Project G-36-614, Contract No. 294-75-002

Development of a Family Planning Regional Data Network

This revised schedule reflects the fact that several site visits originally planned for April could not be made until May or June. The principal readjustments pertain only to reports due during the first few months of the project, and this revision does not contain a request for an extension of the project beyond the originally scheduled completion date of April 1, 1976.

Preliminary List & Evaluation	Due 8/1/75
Proposed RDN Objectives	Due 8/22/75
Output Formats Design	Due 9/8/75
Input Formats Design	Due 10/1/75
Preliminary Network Design	Due 11/1/75
Input/Output Procedures	Due 1/15/76
RDN Implementation Plan	Due 3/1/76
Final Report With Manuals	Due 4/1/76

In addition to the above, regular progress reports will be made for each bimonthly segment of the project, and special reports on any technical assistance given to states and projects will be due one week after the TA is given.

For Georgia Tech

For DHEW

BIMONTHLY PROGRESS SUMMARY

June 1, 1975 - July 31, 1975

Project G-36-614, Contract No. 294-75-002

Development of a Family Planning Regional Data Network

I. Survey of State Data Processing Capabilities

During the period covered by this progress summary, information about their data processing capabilities was obtained from the three states which had not previously responded to our inquiries: Florida, Georgia, and Mississippi. The results of the survey have been incorporated into our preliminary report.

II Site Visits at State Family Planning Offices

Site visits to Mississippi and Florida were made during the period covered by this report. Initial visits have now been made to all of the eight states within DHEW Region IV.

III. Visits to Federal Agencies and Contractors

During June and July interviews were obtained from appropriate representatives at BCHS, NCHS, Informatics, and Census Bureau.

IV. Revised Schedule of Reports Due Dates

The revised reports due data schedule proposed in our letter submitted as an attachment to the Bimonthly Progress Summary for April 1, 1975 to May 31, 1975, was approved by DHEW Region IV.

V. Preliminary Report Completed

A preliminary project report (Design Considerations for a Regional Data Network: A Preliminary Assessment of the Needs and Capabilities of an Information System for Family Planning Evaluation) has been delivered to DHEW Region IV.

~~A. P. Jensen~~
Senior Research Engineer
Georgia Institute of Technology

BIMONTHLY PROGRESS SUMMARY

August 1, 1975 - September 30, 1975

Project G-36-614, Contract No. 294-75-002

Development of a Family Planning Regional Data Network

I. Distribution of Preliminary Report

The preliminary report and working document entitled "Design Considerations for a Regional Data Network" was distributed to the Statewide Family Planning Directors in each of the eight states in Region IV. By separate memo Project Officer Jean Cobb requested that the directors carefully review the working document with appropriate state-level personnel in order to verify the accuracy of the material presented therein.

Since no exceptions to the statements made in the working document had been received by the end of the reporting period covered by this progress summary, the presumption is that those statements are substantially correct.

II. Interview at Alan Guttmacher Institute

Project staff members interviewed Joy Dreyfoos and several of her associates at the Alan Guttmacher Institute and discussed with her the findings of the preliminary report. Special attention was focused on the problems related to the use of demographic data.

III. Review of Region I Data System

Discussions were held with Joel Lambstein and several of his associates at Management Sciences for Health, which is the contractor that designed and now operates the Region I Family Planning Data System. MSH has installed a system which is, intentionally, quite unsophisticated in its reporting formats, and Mr. Lambstein feels that, because of that lack of sophistication, the Region I system is very successful as a management tool at the clinic level of operation.

IV. Presentation at Statewide Directors' Meeting

Project staffers participated in a Statewide Family Planning Directors' Meeting held on October 1, 1975. Progress was reviewed and several questions answered. The Directors were once again invited to submit written corrections of any inaccuracies found in the preliminary project report and once again urged to communicate any questions or comments they might have about the work in progress.

V. Revised Schedule of Reports Due Dates

Discussions between DHEW and Georgia Tech staff resulted in an agreement to revise the reports due schedule slightly in order to make that schedule correspond with the general work timetable and the anticipated consultants' workshop. Thus, the proposed RDN objectives will now be stated in a document to be issued on November 1, 1975, and the preliminary network design will appear in a report due on December 15, 1975.

VI. Finalized Date for Consultants' Workshop

A Consultants' Workshop has been scheduled at Georgia Tech on November 4 and 5 in order to review the alternatives presented in Design Considerations for a Regional Data Network and to make suggestions for the future development of the project. At least one representative from each of the following organizations has been invited to serve as a con-

sultant in the Workshop: National Center for Health Statistics,
Bureau of Community Health Services, Center for Disease Control,
Alan Guttmacher Institute, MACRO, Management Sciences for Health,
Regional Training Center, Carolina Population Center, Family Planning
Evaluation Institute, Naomi Gray Association and HEW.

A. P. Jensen
Senior Research Engineer
Georgia Institute of Technology

BIMONTHLY PROGRESS SUMMARY

October 1, 1975 -- November 30, 1975


Project G-36-614, Contract No. 294-75-002

Development of a Family Planning Regional Data Network

- I. Briefing of Statewide Directors. James Doyle, John Gehl, and A.P. Jensen attended the October Statewide Family Planning Directors Meeting (held at the Raddison Motel in Atlanta) in order to brief the Directors on the progress of the RDN, to answer any questions they might have on the network design, and to invite their participation in the November Consultants Workshop to be held at Georgia Tech. Pete Jensen stressed the importance of a careful review of the Working Document ("Design Considerations for a Regional Data Network") and urged again that the Directors respond in writing if their study of that document revealed any inaccuracies.
- II. Preparation of Goals Report. A report dated November 1, 1975 and entitled "Technical Objectives for the Proposed Linkage of Eight Family Planning Data Systems" was completed and delivered to the project Officer.
- III. Consultants Workshop. A Consultants' Workshop was held at the School of Information and Computer Science, Georgia Institute of Technology, on November 4 - 5, 1975. The purpose of the Workshop was to review the alternatives presented in "Design Considerations for a Regional Data Network." The following is a list of persons who participated in the Workshop:

Dick Awalt, Dept. of Health, Education & Welfare
Al Baldwin, Dept. of Health, Education & Welfare
Carita Bernsohn, Naomi Gray Associates
Jeanne Bille, Regional Training Center
Rondia Burdine, Kentucky Family Planning Program
Bobbi Cleveland, Bron Cleveland Associates
Jean Cobb, Dept. of Health, Education & Welfare
Marsha Corey, Alan Guttmacher Institute
Jerry Cover, South Carolina
James Doyle, Georgia Institute of Technology
Gene Dickey, Alabama Family Planning Program
Joy Dryfoos, Alan Guttmacher Institute
John Gehl, Georgia Institute of Technology
Don Harrison, Dept. of Health, Education & Welfare
Barbara Haupt, National Center of Health Statistics
Keiko M. Holloman, North Carolina Family Planning Program
Pete Jensen, Georgia Institute of Technology
Steve Johnson, Mississippi Family Planning Program
James X. Lococo, Dept. of Health, Education & Welfare
Bob Loddengaard, Carolina Population Center
Jack Reynolds, Family Planning Evaluation Institute
Jerri Shaw, MACRO
James Shelton, Georgia Family Planning Program
Morton Silver, Planned Parenthood Federation of America
Jack Smith, Center for Disease Control
Scot Stoney, Management Science for Health
Chrystal Whipkey, Dept. of Health, Education & Welfare

- IV. Revised Project Schedule. Project Officer, Jean Cobb will furnish a detailed listing of desired data elements and reporting elements no later than mid-January, when that listing is received, detailed flow-charting activities necessary to produce the required transformations will proceed. A revised project time-table will be effected to reflect appropriate corresponding changes in deliverable due dates, and the project will be extended in time, under current funding, to terminate June 30, 1975.


A.P. Jensen
Senior Research Engineer
Georgia Institute of Technology

BIMONTHLY PROGRESS SUMMARY

December 1, 1975 -- January 31, 1976

Project G-36-614, Contract No. 294-75-002

Development of a Family Planning Regional Data Network

- I. Conversion Procedures for State Patient Files. Most of the effort of the two-month period reported herein has been devoted to detailed examination of the problems that will arise from the conversion of state patient-data transaction tapes for integration in a common regional data base for analysis and reports generation. Tapes have been received from all states except North and South Carolina (the latter's tapes are currently en route). A reminder request will be sent to North Carolina.
- II. Detailed Specification of Reporting Requirements. Project Officer has continued her work on the preparation of detailed specifications of reporting requirements. The revised target date for our presentation of the results of her analysis is Feb. 23, 1976. These detailed specifications and evaluation algorithms will provide the foundation for continuing project efforts and for finalization of the reports formatting system.
- III. Revised Project Schedule. A report outlining the basic structure of the report formatting system will be prepared in response to and in conjunction with the Project Officer's presentation of detailed reporting-element specifications as outlined in (II) above. Subsequently, two formal reports will be due as shown below:
 - May 3, 1976: Network Design With Input/Output Procedures
 - June 30, 1976: Final Report With Implementation Plan, User's Guide, and Suppliers Procedures

~~A. P. Jensen~~
Senior Research Engineer
Georgia Institute of Technology

February 23, 1976

OUTLINE OF A REPORTS FORMATTING SYSTEM FOR A FAMILY PLANNING DATA NETWORK

Project G-36-614, DHEW Contract 294-75-002

Development of a Family Planning Regional Data Network

I. Introduction

The purpose of this report is to outline the basic structure of the report formatting system of a Region IV Family Planning Data Network by presenting the results of the Project Officer's selection of data and reporting elements and her specifications for certain detailed report types. It is our understanding that the Project Officer's selection of data and reporting elements may be considered final but that she is still engaged in the process of formulating detailed specifications of reporting requirements associated with her program evaluation needs. We will amend the system design appropriately if any additional specification documents are furnished.

II. Augmented Data Base Details

This section of the report will be used to set forth the data elements selected by the Project Officer for inclusion in the four principal data base subcomponents: a patient data component; a demographics data component; a facilities data component; and a fiscal data component. It will be possible to add a fifth component for state plan information if the Project Officer decides that such a component is desirable and specifies a set of appropriate state plan data elements.

PATIENT DATA COMPONENT

The following patient data elements are reproduced from the working document, Design Considerations for a Regional Data Network (August 1, 1975), pp. 184-187. The only change is the deletion of data element A013, State Assigned Number, which has been blanked out on all test tapes sent from the participating states. The Project Officer may deem it desirable to substitute in its place an activity status code calculated by the states prior to submission of the tapes to the Regional Office or a contractor for processing.

	<u>DATA ELEMENT</u>	<u>DATA TYPE</u>	<u>NO. OF CHAR.</u>	<u>COMMENTS</u>
Clinic	A003 STATE COUNTY NUMBER	N	3	
	A004 CLINIC NUMBER	N	5	
Patient	A096 REGISTERED FOR MEDICAID	A	1	Y = "YES" N = "NO"
	A093 MEDICAID NUMBER	N	6	
	A009/11 SEX	A	1	F = 'FEMALE' M = 'MALE'
	A037/38 RACE	N	1	1 = 'WHITE' 2 = 'BLACK' 3 = 'AMERICAN INDIAN' 4 = 'MEXICAN AMERICAN' 5 = 'ORIENTAL' 6 = 'OTHER'
	122/123			
	114/115			
	A010 ETHNIC (Latin American Origin)	A	1	Y = "YES" N = "NO"
	A018/19 MARITAL STATUS	N	1	1 = 'MARRIED' 2 = 'NEVER MARRIED' 3 = 'SEPARATED' 4 = 'DIVORCED' 5 = 'SPOUSE DECEASED'
	A008 BORN ON	N	6	MO/DA/YR
	A016 WHAT COUNTY DO YOU LIVE IN	N	3	
	A017 HIGHEST GRADE OF SCHOOL COMPLETED	N	2	
	A095 CURRENTLY ON WELFARE	N	1	Family receiving financial assistance from the Dept. of Social Services: 0 = "NO" 1 = 'AFDC' 2 = 'APTD' 3 = 'AB' 4 = 'OTHER'

	<u>DATA ELEMENT</u>	<u>DATA TYPE</u>	<u>NO. OF CHAR.</u>	<u>COMMENTS</u>	
	A116	FINANCIAL STATUS	N	1	
	A119	NUMBER IN FAMILY, HOUSEHOLD	N	2	
Visit	A002	TODAY'S DATE	N	6	MO/DA/YR
	A094/110	TYPE OF THIS VISIT	N	1	0 = 'SUPPLY ONLY (SCHED.)' 1 = 'INTAKE' 2 = 'REVISIT (ANNUAL CHECKUP)' 3 = 'REVISIT (NOT FIRST OF YEAR)' 4 = 'SUPPLY ONLY (UNSCHED.)' 5 = 'UNSCHED. REVISIT FOR ANNUAL CHECKUP' 6 = 'UNSCHED. NON PROBLEM' 7 = ' 8 = 'UNSCHED. PROBLEM VISIT (including Annual Checkup)' 9 = 'UNSCHED. PROBLEM REVISIT'
Preg. History	A097	NUMBER OF PREGNANCIES	N	2	
	A098	NUMBER BORN ALIVE	N	2	
	A029	DATE LAST PREGNANCY ENDED	N	6	MO/DA/YR
	A100	OUTCOME OF LAST DELIVERY	N	1	1 = 'BORN ALIVE - TERM' 2 = 'BORN ALIVE - PREMATURE' 3 = 'BORN DEAD' 4 = 'MISCARRIAGE/ABORTION' 5 = 'NEVER PREGNANT' 6 = 'OTHER' 7 = 'UNKNOWN'
	A032	NUMBER OF FETAL DEATHS	N	2	
	A031	NUMBER OF PATIENT'S CHILDREN ALIVE NOW	N	2	
Contra- ceptive History	A105	EVER USED ANY METHOD TO PREVENT PREGNANCY	A	1	Y = "YES" N = "NO"
	A107/131	METHOD MOST USED IN LAST 2 YEARS	N	2	00 = 'NONE' 01 = 'ORAL' 02 = 'IUD' 03 = 'DIAPHRAGM' 04 = 'FOAM' 05 = 'RYTHM' 06 = 'CONDOM' 07 = 'INJECTION' 08 = 'STERILIZATION' 09 = 'OTHER' 10 = 'METHOD NOT KNOWN'
	A040				
	A039				
	A044				
	A042				
	A046				
	A043				
	A041				
	A045				
	A047				
	A048				
A049	WHO PRESCRIBED LATEST METHOD	N	1	1 = 'PRIVATE DOCTOR' 2 = 'PUBLIC CLINIC' 3 = 'DRUGGIST' 4 = 'OTHER'	
	A050				
	A051				
	A132				

	<u>DATA ELEMENT</u>	<u>DATA TYPE</u>	<u>NO. OF CHAR.</u>	<u>COMMENTS</u>	
Services Provided	A026	COUNSELING	N	1	1 = 'CONTRACEPTION COUNS.' 2 = 'STERILIZATION COUNS.' 3 = 'INFERTILITY COUNS.' 4 = 'ABORTION COUNS.' 5 = 'SOCIAL SERVICES COUNS.' 6 = 'OTHER'
	A027				
	A033				
	A028				
	A023				
	A034				
	A067	BLOOD PRESSURE	A	1	Y = YES N = NO
	A074	V.D. BLOOD TEST	A	1	Y = YES N = NO
	A073	HCT OR HGB	A	1	Y = YES N = NO
	A129	BLOOD TEST	A	1	Y = YES N = NO
	A128	VDRL	A/N	2	1. character: Y=YES 2 ch.: 0=neg. result N=NO 1=pos. result
	A069	PAP SMEAR	A/N	2	1. character: Y=YES 2 ch.: 0=neg. result N=NO 1=pos. result
	A070	G.C. - culture	A/N	2	1. character: Y=YES 2 ch.: 0=neg. result N=NO 1=pos. result
	A068	BREAST	A	1	Y = YES N = NO
	A071	PELVIC EXAM	A	1	Y = YES N = NO
	A072	URINALYSIS	A	1	Y = YES N = NO
	A075	SICKLE CELL ANEMIA	A/N	2	1. character: Y=YES 2 ch.: 0=neg. result N=NO 1=pos. result
	A076	STERILIZATION	A	1	Y = YES N = NO
	A077	INFERTILITY	A	1	Y = YES N = NO
	A079/80	PREGNANCY TEST	A/N	2	1. character: Y=YES 2 ch.: 0=neg. result N=NO 1=pos. result
A078	OTHER	A	1	Y = YES N = NO	
Contra- ceptive Methods Used After Visit	A061	METHOD AFTER VISIT	N	1	0 = 'NONE' 1 = 'ORAL' 2 = 'IUD' 3 = 'DIAPHRAGM' 4 = 'FOAM' 5 = 'RYTHM' 6 = 'CONDOM' 7 = 'INJECTION' 8 = 'STERILIZATION' 9 = 'OTHER'
	A053				
	A052				
	A057				
	A055				
	A059				
	A056				
	A054				
	A058				
	A060				
	A062	REASON FOR STOPPING METHOD	N	1	1 = 'PREGNANT - PLANNED' 2 = 'PREGNANT - UNPLANNED' 3 = 'SEEKING PREGNANCY' 4 = 'MEDICAL REASON' 5 = 'OTHER'
	A063				
	A064				
	A065				
	A066				
	A087	REFERRED ELSEWHERE	N	1	1 = 'SOCIAL SERVICES' 2 = 'MEDICAL SERVICES' 3 = 'STERILIZATION' 4 = 'ABORTION' 5 = 'INFERTILITY TREATMENT' 6 = 'OTHER'
	A088				
A089					
A090					
A091					
A092					
A0135	PATIENT SEEN BY	N	1	0 = 'PHYSICIAN' 6 = 'AIDE' 1 = 'P.H.N.' 7 = 'CLERK' 2 = 'F.P.H.N.' 8 = 'NUTRITIONIST' 3 = 'NURSE MIDWIFE' 9 = 'OTHER' 4 = 'L.P.N.' 5 = 'SOCIAL SERVICES'	

<u>DATA ELEMENT</u>	<u>DATA TYPE</u>	<u>NO. OF CHAR.</u>	<u>COMMENTS</u>	
A101	MAIN SOURCE OF REFERRAL	N	2	00 = 'SELF' 01 = 'OUTREACH WORKER' 02 = 'OTHER FP CLINIC' 03 = 'HOSPITAL OR OTHER HEALTH AGENCY' 04 = 'PRIVATE DOCTOR/NURSE' 05 = 'WELFARE AGENCY' 06 = 'ANOTHER CLINIC PATIENT' 07 = 'FAMILY OR FRIEND' 08 = 'TV, RADIO, PAPER AD' 09 = 'OTHER' 10 = 'UNKNOWN'
A086	DATE OF NEXT APPOINTMENT	N	6	MO/DA/YR
A081	PURPOSE OF NEXT APPOINTMENT	N	1	1 = 'SUPPLY VISIT OR STRING CHECK' 2 = 'ANNUAL EXAMINATION' 3 = 'MEDICAL PROBLEM' 4 = 'OTHER' 5 = 'NO NEXT APPOINTMENT'
A082	REASON FOR DISCHARGE	N	1	1 = 'STERILIZATION'
A083				2 = 'MENOPAUSE'
A084				3 = 'MEDICAL REASON'
A085				4 = 'PATIENT MOVED'
A112				5 = 'PATIENT LOST INTEREST' 6 = 'PREGNANCY DESIRED' 7 = 'PREGNANCY UNPLANNED' 8 = 'UNKNOWN'

COUNTY DEMOGRAPHICS FILE

Item #		No. Bytes
1.	County ID	3
2.	State Code	1
3.	District Code	2
4.	HSA Code	2
5.	Rurality Code	1

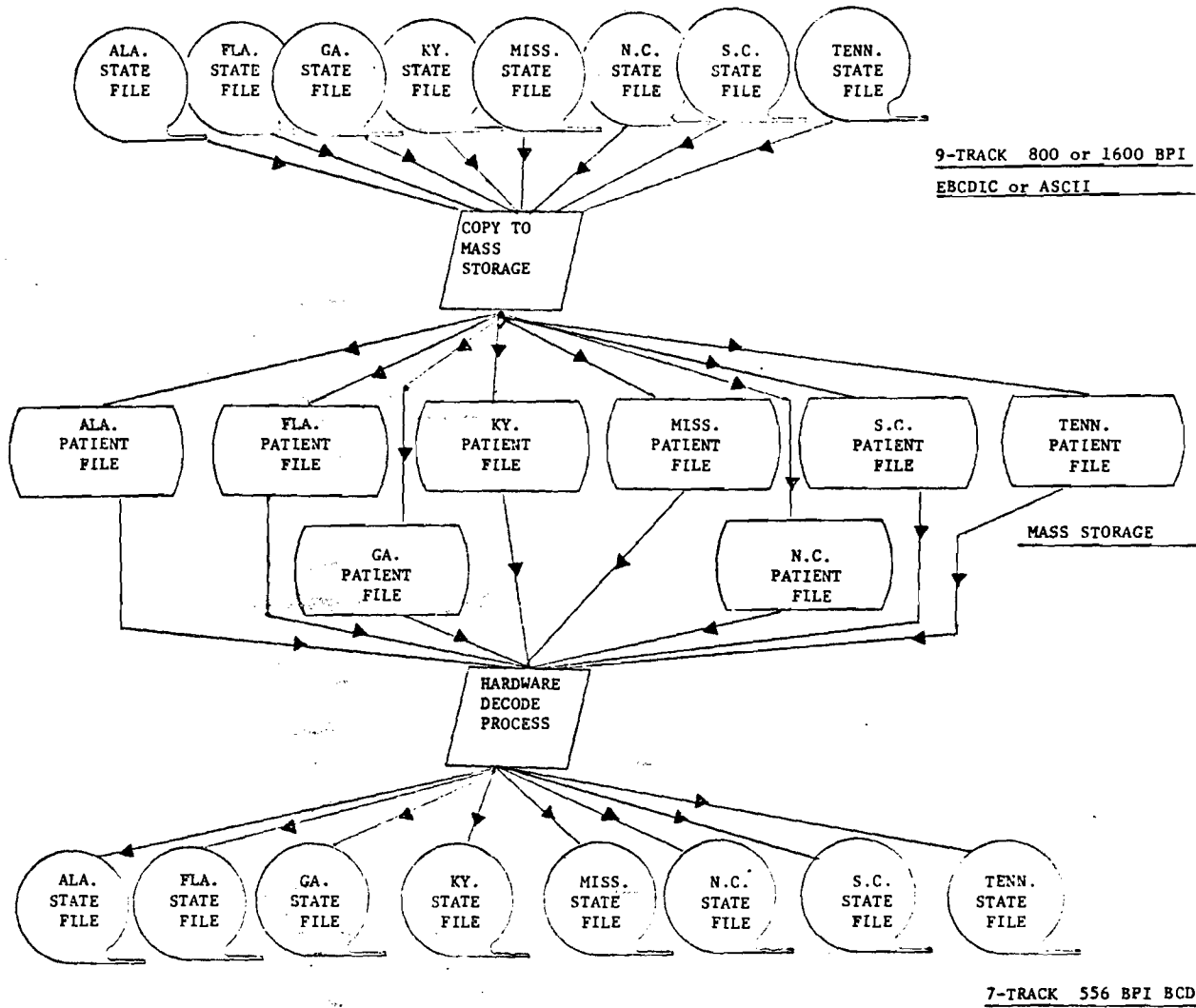
Values 1 = SMSA
2 = Non-SMSA over 50,000
3 = Adjacent to 1 or 2 Above
4 = Isolated Rural

<u>Item #</u>	<u>Item</u>		<u>No. Bytes</u>
	Number Infant Deaths		
	Age	Race	
28.	< 20	W	5
29.	< 20	B	5
30.	20 - 29	W	5
31.	20 - 29	B	5
32.	30 - 44	W	5
33.	30 - 44	B	5
34.	45+	W	5
35.	45+	B	5
	UD Rates		
36.	< 20	W	5
37.	< 20	B	5
38.	20 - 29	W	5
39.	20 - 29	B	5
40.	30 - 44	W	5
41.	30 - 44	B	5
42.	45+	W	5
43.	45+	B	5
44.	Per Capita Income	S M	5
45.	% Population Below State Median		4
46.	Physician Ratio		4
47.	% High Risk Births		4
48.	% Out of Wedlock		4

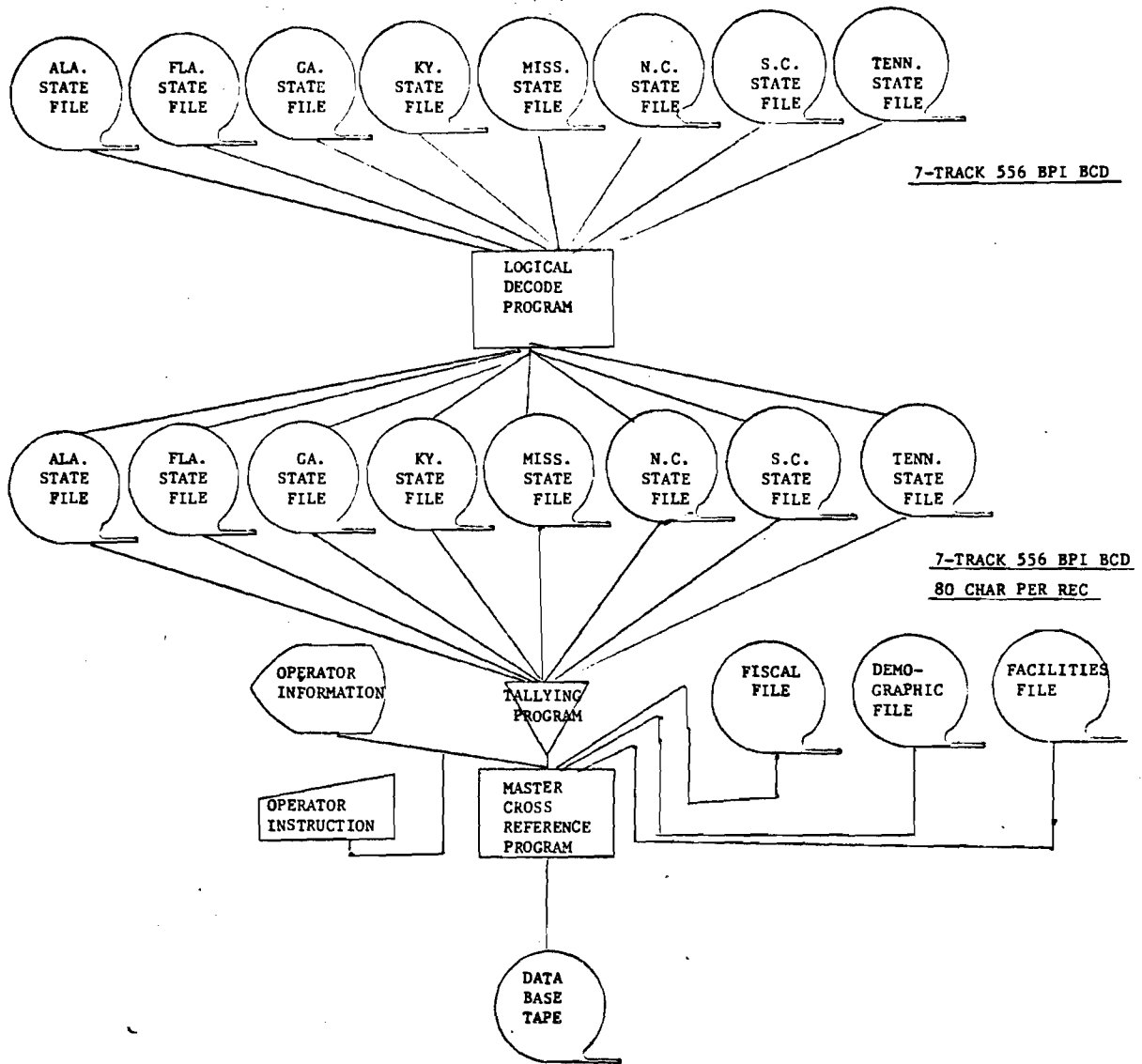
COUNTY FACILITIES FILE

<u>Item #</u>	<u>Item</u>	<u>No. Bytes</u>
1.	County ID	3
2.	State Code	1
3.	District Code	2
4.	HSA Code	2
5.	Total No. Clinics in County	3
6.	Number Medical	3
7.	Number Non-Medical	3
8.	Total No. Clinician-Staffed Hrs. Per Qtr.	3
9.	No. MD Clinician Hrs. Per Qtr.	3
10.	No. NP Clinician Hrs. Per Qtr.	3
Site Types		
11.	N - L.H.D.	2
12.	N - State or Local Welfare	2
13.	N - Other Govt. Bldg.	2
14.	N - Hospital	2
15.	N - School	2
16.	N - Store	2
17.	N - Physician Office	2
18.	N - Church	2
19.	N - Community Health Center	2
20.	N - Mobile Unit	2
21.	N - Other	2
Staff Types		
22.	N - Administrator/Director	2
23.	N - Physician	2
24.	N - Physician's Assistant	2
25.	N - Registered Nurse	2
26.	N - Nurse Midwife/Nurse Practitioner	2
27.	N - Licensed Practical Nurse	2
28.	N - Clinic Aide	2
29.	N - Nutritionist	2
30.	N - Health Educator	2
31.	N - Social Worker	2
32.	N - Clerk/Secretary	2
33.	N - Outreach Worker	2
34.	N - Other	2

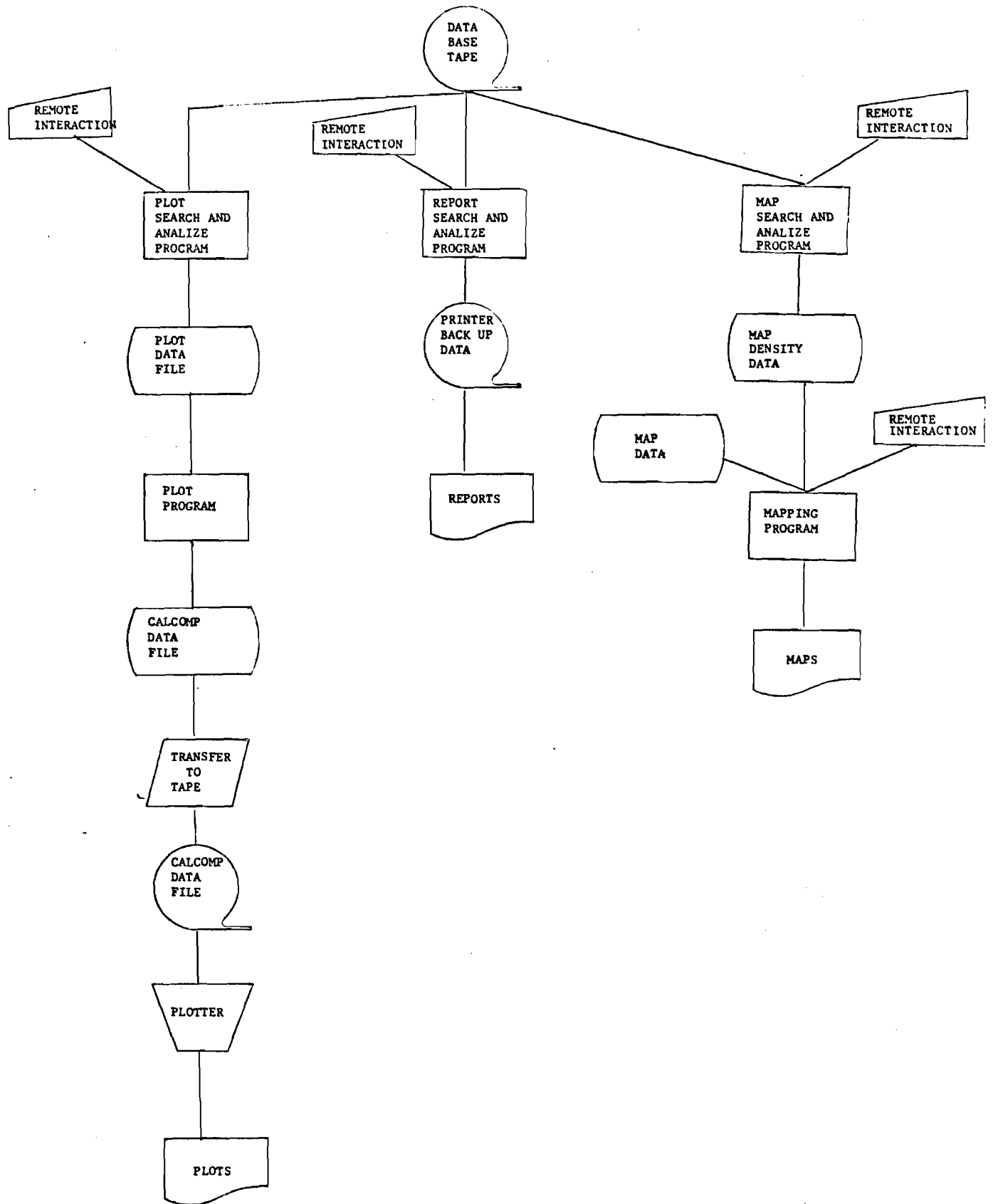
<u>Item #</u>	<u>Item</u>	<u>No. Bytes</u>
Methods Provided With County		
	Yes = 1	
	No = 2	
35.	Oral (pill)	1
36.	IUD	1
37.	Foan	1
38.	Condom	1
39.	Diaphragm/Jelly	1
40.	Natural family planning	1
41.	Sterilization (female)	1
42.	Sterilization (male)	1
43.	Abortion	1
44.	Injection	1
45.	Post-coital pill	1
46.	Other	1
Ancillary Services		
47.	Individual counseling about family planning	1
48.	Follow up program	1
49.	Referral to other clinic for family planning or medical services not provided at this time	1
50.	Referral to appropriate agency for social services	1
51.	Transportation to the clinic or service site	1
52.	Babysitting	1
53.	Provide space, equipment, contraceptive supplies and/or staff to others who provide medical family planning services	1
54.	Contract or pay others for the provision of medical family planning	1
55.	Outreach Program	
56.	Classroom or group sessions about family planning	1
57.	Classroom or group sessions on sex education	1
58.	Other	1



PATIENT-FILE TAPE CONVERSION PROCEDURE



REGIONAL DATA BASE GENERATION PROCESS



DESIGN OF DATA BASE ACCESS AND REPORT PREPARATION

III. Specification of Reporting Types.

Presented on the following pages are reports requirements identified thus far by the Project Officer. They do not of course represent the system's full reporting capability. That is to say, any elements included in the data base (see section II) will be reportable (at a processing cost) alone or in conjunction with virtually any other elements included in that data base, subject to identification and specification of particular evaluation needs.

The selection of variables of special interest and the specification of their relationships with other variables is an evaluation function and is the basis for all reports generation. If additional evaluation algorithms (such as the ones implied in the report-types listed below) are identified, they will be incorporated into the reporting subsystem to whatever extent is possible in terms of the defined data base.

BUDGET MONITORING -- STATE NAME

	This Qtr.		Yr-to-Date		* Expenditure Index	
	Planned	Actual	Planned	Actual	Qtr.	4-10-0
<u>Federal</u>						
Title X						
Title V (MCH)						
Other . . . (3 = max)						
<u>Non-Federal</u>						
State Approp.						
Other State (In Kind)						
Other (2 = max)						
<u>Third Party</u>						
Title XIX						
Title XX						
Patient Fees						
Private Ins.						
Other (3 = max)						
<u>Total</u>						

** Expenditure Index

Planned/Actual

Accounts Receivable

Quarter

Ala. Fla. Ga. Ky. Miss. N.C. S.C. Tenn. Region

Previous Qtr. Balance

Actual Billing
this Qtr.

Collections this Qtr.

End of Qtr. Balance

Total Expenditures
this Qtr.

Index

End - Qtr. Balance

Year - Data Expenditures

	<u>Fiscal Year Projection</u>	<u>Prin. Year Expenditures</u>	<u>This Qrt.</u>	<u>Actual Exp. Same Qrt. Last Year</u>	<u>Cum. For Year</u>
<u>Federal</u>					
Title X					
Title V (MCH)					
Other (3 = max)					
<u>Non-Federal</u>					
State Approp.					
Other State (In-Kind)					
Other (2 = max)					
<u>Third Party</u>					
Title XIX					
Title XX					
Patient Fees					
Private Ins.					
Other (3 = max)					
<u>Total</u>					

PATIENTS SERVED (PLANNED VS. ACTUAL)

Annual Planned		Actual		Difference	
Served	Active	Served	Active	Served	Active

U.S.

1. This Qtr.
2. Last Qtr.
3. Current Qtr.
4. Last Year
5. Like Counties

Region IV

1. This Qtr.
2. Last Qtr.
3. Current Year
4. Last Year
5. Like Counties

State

1. This Qtr.
2. Last Qtr.
3. Current Qtr.
4. Last Year
5. Like Counties

District

1. This Qtr.
2. Last Qtr.
3. Current Qtr.
4. Last Year
5. Like Counties

County

1. This Qtr.
2. Last Qtr.
3. Current Qtr.
4. Last Year
5. Like Counties

REGION IV COUNTIES, DISTRICTS, AND STATES FAILING TO MEET EXPECTED
PERFORMANCE CRITERIA FOR CLINIC PHYSICIAN HOURS

	<u>Needed Capacity</u>	<u>Planned Capacity</u>	<u>Utilization Factor</u>	<u>Utilization Rate</u>	<u>Comment</u>
Norm	175/hr	175/hr	5.9	7.0	
Region IV (date)	175/hr	160/hr	6.5	5.0	
Exceptions-by-State					
Alabama	175/hr	145/hr	4.8	4.5	
Florida					
Georgia					
Kentucky					
Mississippi					
North Carolina					
South Carolina					
Tennessee					
District I	175/hr	175/hr	7.0	6.0	
County - Greene	175/hr	60/hr	2.3	3.3	

IV. Assessment of Work Status

Work is in progress so that the network will be able to fulfill the reporting requirements specified above as well as any additional reporting requirements which may be specified in the future. However, one problem evident at this time is the requirement for certain reporting elements which are not computable from elements in the defined data base as set forth in section II; another problem, conversely, is that various data elements have been specified at the county level and at the patient data level which seem unlikely to be needed for the generation of reports. It is therefore suggested that DHEW project staff conduct a further detailed screening of both the data elements and their relationships with the desired reporting elements. When such relationships have been established it will be possible for the project team to proceed with the development of the design specifications for computer software necessary to meet the reporting requirements of the family planning evaluation program in DHEW Region IV.

BIMONTHLY PROGRESS SUMMARY

December 1, 1975 -- January 31, 1976

Project G-36-614, Contract No. 294-75-002

Development of a Family Planning Regional Data Network

- I. Conversion Procedures for State Patient Files. Most of the effort of the two-month period reported herein has been devoted to detailed examination of the problems that will arise from the conversion of state patient-data transaction tapes for integration in a common regional data base for analysis and reports generation. Tapes have been received from all states except North and South Carolina (the latter's tapes are currently en route). A reminder request will be sent to North Carolina.
- II. Detailed Specification of Reporting Requirements. Project Officer has continued her work on the preparation of detailed specifications of reporting requirements. The revised target date for our presentation of the results of her analysis is Feb. 23, 1976. These detailed specifications and evaluation algorithms will provide the foundation for continuing project efforts and for finalization of the reports formatting system.
- III. Revised Project Schedule. A report outlining the basic structure of the report formatting system will be prepared in response to and in conjunction with the Project Officer's presentation of detailed reporting-element specifications as outlined in (II) above. Subsequently, two formal reports will be due as shown below:
 - May 3, 1976: Network Design With Input/Output Procedures
 - June 30, 1976: Final Report With Implementation Plan, User's Guide, and Suppliers Procedures

A. P. Jensen
Senior Research Engineer
Georgia Institute of Technology

BASIC NETWORK DESIGN AND OUTLINE OF INPUT-OUTPUT PROCEDURES

(Family Planning Regional Data Network)

The Regional Data Network is a data processing system designed to serve as a managerial and information resource tool for Region IV of the U.S. Department of Health, Education & Welfare's family planning program by the School of Information and Computer Science, Georgia Institute of Technology, under the auspices of DHEW Contract 294-75-002.

- A. Present design considerations have caused the project team to construct the following system programs:
1. Logical Decode Programs. There are 10 programs that have been developed and are presently being tested. These programs take as input the 8 state patient transaction* and master tape files*. These 10 different formats are then logical-rearranged to produce the standard data base file structure (refer to pp. 205 of "Outline of a Report Formatting System for a Family Planning Data Network", Feb. 23, 1976, for detailed file structure mentioned here). For each patient record on the input tape there will be a corresponding patient record on the output tape. The only change will be one of data-representation. The purpose of this process is to allow all of the patient data (coming from 8 different states in 10 different formats) to be read by a single tabulation program. These programs are all basically similar in structure and requirements. Each requires 2-tape drives and approximately 7-10K of storage (dependent on processing facility). For more detailed information on each individual program refer to "Technical Objectives for the Proposed Linkage of Eight Family Planning Data Systems," November 1, 1975.
 2. Patient Data Base Tallying Program. This is the largest and most demanding of the programs in terms of CPU time, storage space (magnetic tape, core, disk -- object and source codes for that program only, no data stored on disk), operator interaction and

*The system requires the states of South Carolina and Alabama to send both transaction and master files.

other basic computer facility resources. Its purpose is to take as input the 10 logically decoded patient data files (output from logical decode programs will be stored on magnetic tape) and do all cross-referencing and tallying that is necessary to produce the patient data base tape. The patient data base file is an aggregated tally of all patient data base items broken down in county, state, and regional levels. The data is in order by county number starting with the state of Alabama and processing in alphabetical order through the state of Tennessee. This program has been equipped with an automatic recovery system in case of computer failure during processing. This is due to the fact that the running of this program will require close to or more than 24 hours real time (on the B-5500) during which the chance of at least one system failure is a distinct possibility. This program uses the "display" and "accept" verbs of standard COBOL for operator interaction. This program requests whether a restart or recovery is needed, whether a logically decoded tape file from a specific state is available or not, and instructions for handling errors and inconsistencies in the input tape files. It requires 3 tape drives, 15-20K core storage, approximately 6K disk storage (object code), and significant operator interaction. A general flowchart containing only "COBOL paragraph names" (subroutines) and statements that alter logic control is included in this report.

3. Search and Analyze Programs. This system contains 3 Search and Analyze programs which use the patient data base tape file and the fiscal, demographic, and facilities tape file to produce output. These 3 programs produce disk data files for the plot and map programs and a printer backup file for reports. Each program will request input parameters for type of plot, report, or map to produce and whether to look at data on a county, state, or regional level. Program requirements are min. 2 tape drives with CPU time and disk space proportional to the amount of output desired.
4. Map and Plot Programs. These 2 programs take disk files as input (provided by search and analyze programs) for the production of maps

and plots of the type illustrated in "Design Considerations for a Regional Data Network," August 1, 1975, pp. 177-183. System requirements are directly proportional to amount of output produced. Min. requirements are 2 tape drives, 2-5K disk storage and high-speed printer (an offline device, the "Calcomp Plotter," is also required for plot production). These programs require little operator interaction once set up.

B. Input Procedures:

All patient data files must be physically converted so that they are readable by one computer system before logical conversion can take place (currently, this involves a 9 to 7 track conversion procedure). A fiscal, facilities, and demographic tape file must be produced from available statistics before Search and Analyze programs may be run to produce output. Operator input to the patient data tabulation program is explained by program generated messages to the operator console and will be completely detailed in final documentation. Patient data tabulating program does not require all state patient files to be present when processing although obviously regional data will be less accurate and there will be no output for missing state files if they are not present. Data tabulation program will be run only once a quarter although Search and Analyze and Output programs may be run as often as new types of output are desired.

C. Output:

All line-printer output procedures (maps and reports) are currently automatically handled by available standard operating system software on computer system used. Plot output must be transferred from disk storage to mag tape. This tape must then be mounted on off-line Calcomp plotter for output. Standard Calcomp plotter software must be available on any future computer system if plots are desired; This is not standardly supplied with all computer systems.

D. System Choice Considerations:

Computing power the equivalent of a medium sized system (such as a Burroughs B-5500) will be required to support this data network. Complete

elapsed time for quarterly processing could require 7 to 10 days on such equipment depending on its availability and configuration.

E. Flowchart Explanation:

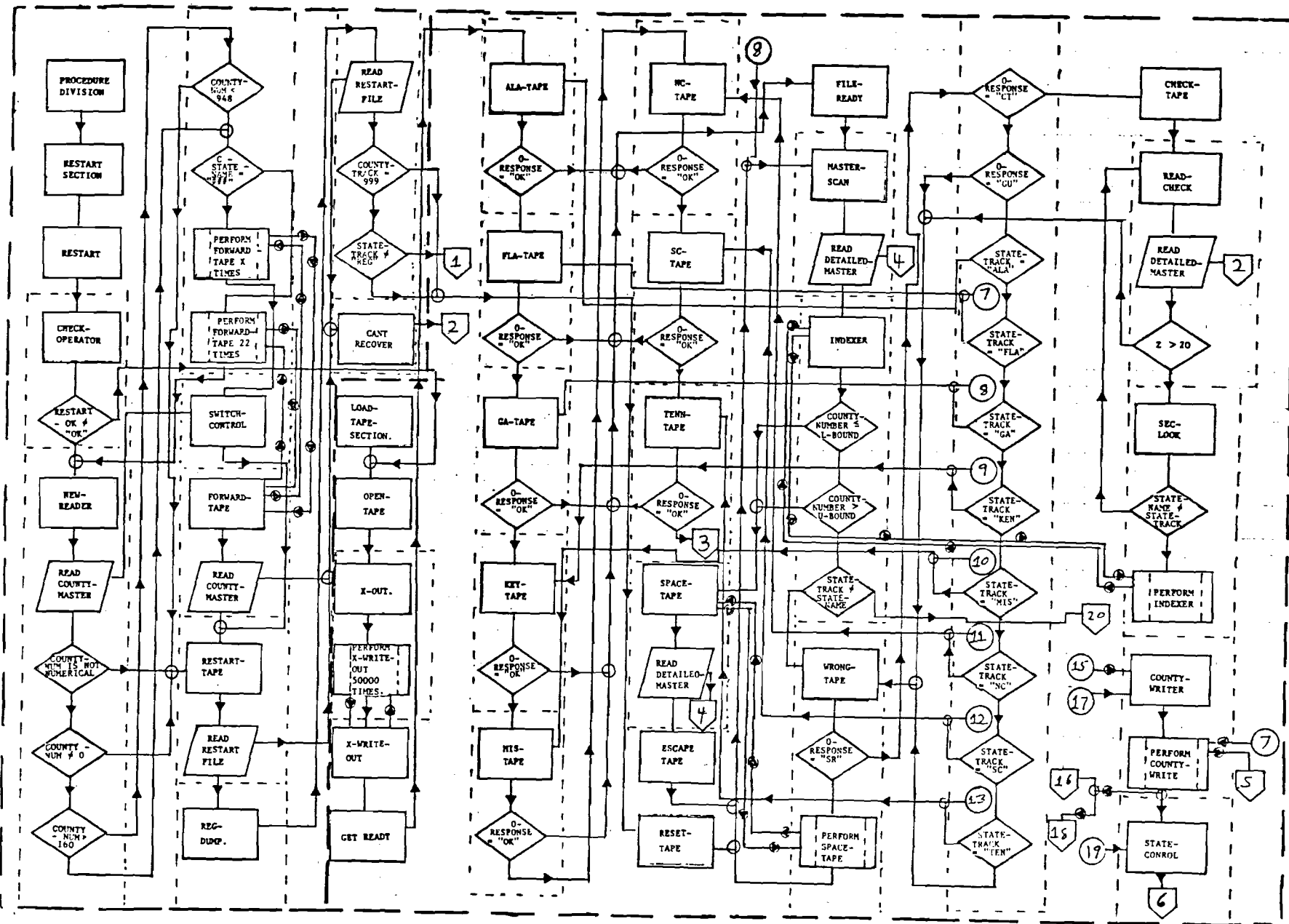
All COBOL "sections" (procedure division type) are outlined in heavy dotted lines. All COBOL "paragraphs" are outlined in light dotted lines or confined to one process box.

The flowchart illustrates only COBOL paragraphs and control transfer statements. A complete flowchart of all statements in this program and flowcharts of all other programs will be made available in later documentation.

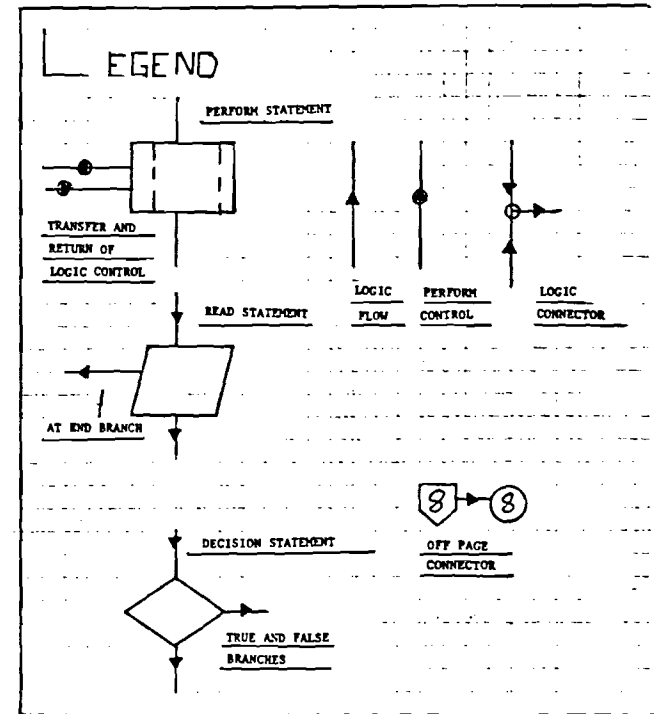
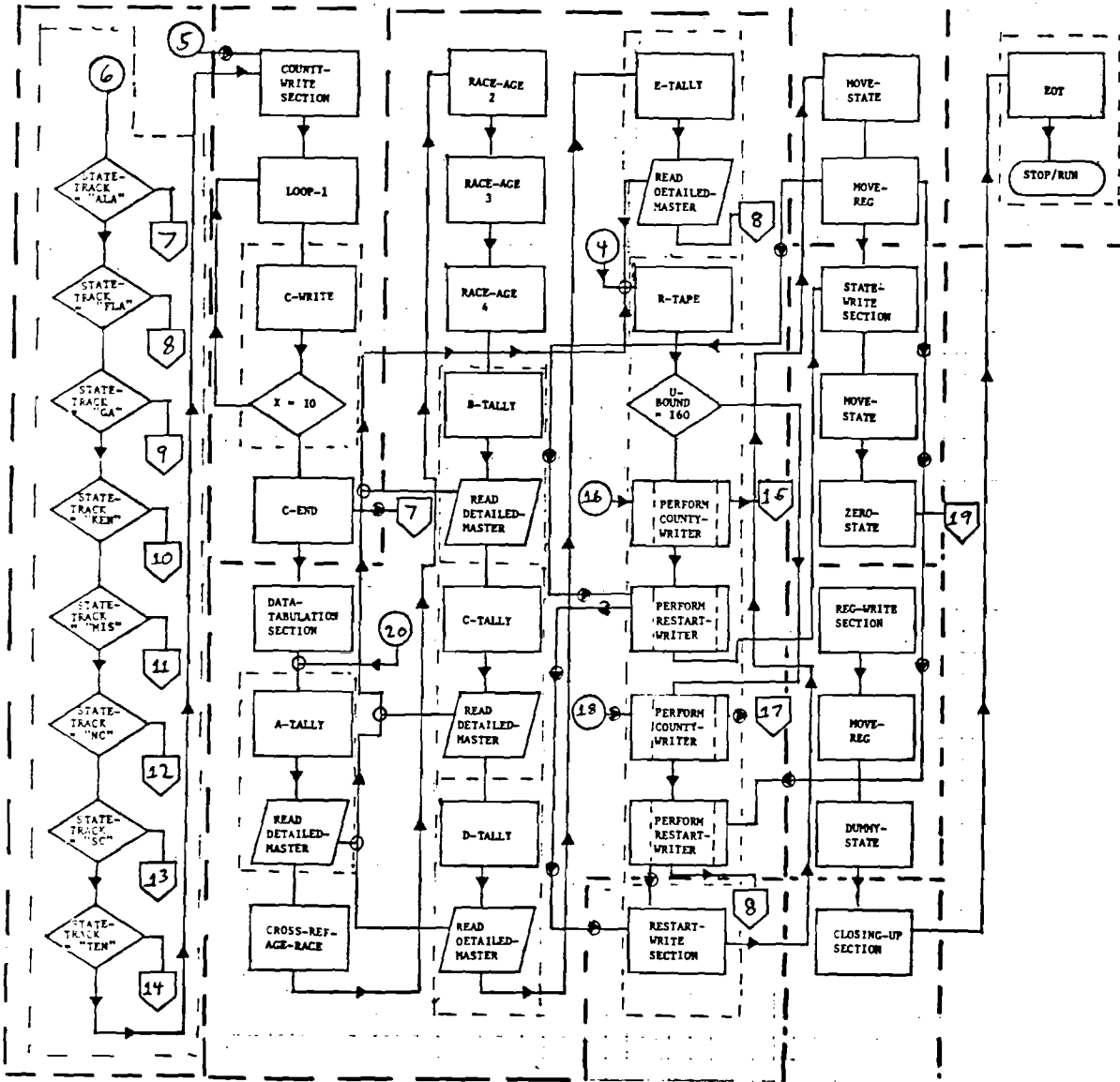
Explanatory Note on "Perform Statements":

Each perform box should have one path into perform; one control path out to section or paragraph to be performed; one control path back from section or paragraph suit performed; and one path then into next paragraph, section, or control transfer statement. All other notation is ANSI standard.

GENERAL FLOWCHART
PATIENT DATA TABULATION PROGRAM



GENERAL FLOWCHART
 PATIENT DATA TABULATION PROGRAM
 (PAGE 2)



DESIGN CONSIDERATIONS FOR A REGIONAL DATA NETWORK

A Preliminary Assessment of the Needs and Capabilities
of an Information System for Family Planning Evaluation

Prepared by

James F. Doyle, John Gehl, and A.P. Jensen
School of Information and Computer Science
Georgia Institute of Technology

For

Jean Cobb, Evaluation Specialist
U.S. Department of Health, Education and Welfare
Public Health Service, Region IV

Under the Auspices of

DHEW Contract 294-75-002

James X. Lococo, Project Officer and
Assistant Regional Health Administrator

August 1, 1975



SCHOOL OF INFORMATION AND COMPUTER SCIENCE

Georgia Institute of Technology

Acknowledgment

We would like to thank the following individuals for their valuable assistance in preparing the material used in this document: Richard Carling, Danny Crider, Richard Greene, Dorothy Hughes, Rawya Mohsen, Jochen Schaeffer, Terry Shank, and Fereydoun Taslimi. We would also like to extend our sincere appreciation to Jean Cobb, Chrystal Darter, and James X. Lococo of DHEW Region IV. Finally, our gratitude is expressed to the many family planning statewide coordinators, data coordinators, systems analysts and others throughout Region IV who gave generously of their time in order to help us learn about the information needs of the family planning program in this region. We are looking forward to working further with all of these fine people as the project continues into its next phases.

CONTENTS

Acknowledgment	iii	
1.0	INTRODUCTION	1
2.0	INFORMATION COLLECTION IN THE STATEWIDE PROGRAMS	3
	2.1	Data Elements Survey 4
	2.2	Basic Data Collection Forms 6
	2.3	Analysis of Primary Data Collection Elements 16
	2.4	Computer File Definitions 96
3.0	DATA PROCESSING CAPABILITIES IN THE STATEWIDE PROGRAMS	131
4.0	CURRENT REPORTING CAPABILITIES AND TECHNIQUES	141
	4.1	Survey of Reporting Elements 142
	4.2	Monitoring and Evaluation Strategies 145
5.0	REGIONAL DATA NETWORK REQUIREMENTS	155
	5.1	General System Features 156
	5.2	Reporting Capabilities 169
	5.3	Data Base Design 184
	5.4	Software Considerations 190
	5.5	Regional/State Responsibilities 216
6.0	A DECISION AGENDA	219
7.0	BIBLIOGRAPHY	223

1.0 INTRODUCTION

This report is intended as a working document, the purpose of which is to facilitate review of design alternatives for a Regional Data Network (RDN) for the family planning program in Region IV, U.S. Department of Health, Education and Welfare. The decision to develop such a network was motivated by the recognized need for a reliable system of data-exchange between Region IV and the various states (as well as within the states themselves), along with a need to develop management parameters to use in monitoring and evaluating the delivery of family planning and related health services throughout the Region. The RDN is expected to satisfy these needs by developing a system which will accept, as input, data from existing patient record systems, demographic profiles, and fiscal and budgeting information, and clinic and provider agency characteristics (including facilities information and manpower and staffing patterns); the output of the network will be an integrated reporting system which will provide management tools the enhancing the family planning program's ability to effectively allocate and manage its resources.

The following constraints seem to reflect the context in which the Regional Data Network is to be developed:

1. Each state's family planning patient system will continue to operate as an independent data processing service designed to meet state objectives.
2. The Regional Data Network will not duplicate existing information services at either the state or the national level. This applies particularly to the collection of information.
3. Insofar as possible, the Regional Data Network will operate on existing data bases, thereby keeping to an absolute minimum the generation of new data.
4. To the extent that the Regional Data Network requires the generation of new information, this need of the Region will not result in the imposition of additional data collection activities on the existing

state systems. Instead, new information needs imposed by the RDN will be met through regional resources and provided as a service to the states rather than the reverse.

5. Patient confidentially will be totally and at all times safeguarded in all Regional uses of patient-level data.

The material in this working document represents a preliminary list of recommended information needs to be met by the RDN, a review of the capabilities of existing state family planning information systems in Region IV, and a discussion of design considerations which will need attention as the work of shaping the configuration of the Regional Data Network proceeds. The material here presented is the result of site visits to the state family planning program offices in each of the eight states in Region IV; interviews with statewide family planning coordinators, planning and evaluation specialists, training coordinators, and data processing personnel; a survey of state data processing capabilities relevant to the operation of family planning information systems; numerous discussions with Region IV evaluation specialists and family planning program administrators; and an extensive review of available documentation on topics related to the project.

Sections 2, 3 and 4 of this document focus, respectively, on the input, processing, and output subsystems of the current family planning information systems in the eight states within Region IV. Section 5 provides a transition from existing to future processing requirements, by opening the discussion on topics pertinent to the design of the proposed network. Section 6 sharpens the focus of this discussion by posing a set of specific questions which must be decided by responsible administrators before more detailed design work can go forward. The document closes in section 7 with a bibliography of selected family planning publications of interest to the current project.

Again, it should be emphasized that this report is not a compendium of final recommendations but a working document, whose purpose is to serve as a foundation for on-going and future efforts toward the development of a data network capable of meeting the management and evaluation needs of the family planning program in Region IV, and suitable for consideration as a model for the management and evaluation of any health services program of comparable sophistication.

2.0 INFORMATION COLLECTION IN THE STATEWIDE PROGRAMS

This section of the working document presents the results of an analysis of the major characteristics of the input subsystems of the eight state family planning data systems in Region IV. The amount and type information available in these systems essentially represents an upper bound on the amount and type of information which could be made available to Region IV as a whole through the mechanism of a Regional Data Network. It is therefore essential that the material presented in this section be reviewed carefully, so the nature of that upper bound will be understood and appreciated.

Section 2.1 reports the responses given by state personnel to a survey of data elements used in their systems. The survey was limited to a list of fifty data element types which were thought to be of possible interest to any family planning information system. The list is not intended to represent a set of ideal data element types, nor intended to represent a minimum required data element set.

Section 2.2 reproduces, for convenient reference, the principal patient data collection forms used by each of the eight states in Region IV.

Section 2.3 contains the results of an analysis of the primary or atomic data elements found on the various data collection forms exhibited in the previous section. The analytic framework is comprised of computer-produced matrices detailing information relative to the appearance, meaning and use of particular data elements in each of the eight state information systems.

Section 2.4 charts the transformation of collected data into computer-processable form, by displaying, for project reference, the file definitions used by the various state family planning information systems that will comprise the outlying nodes of the Regional Data Network.

2.1 DATA ELEMENTS SURVEY

At the commencement of this study the appropriate staff members in each statewide family planning program in Region IV were asked to respond to a survey of data elements collected and processed in their family planning information systems. The results of the survey are displayed in the following table.

	<u>Ala.</u>	<u>Fla.</u>	<u>Ga.</u>	<u>Ky.</u>	<u>Miss.</u>	<u>N.C.</u>	<u>S.C.</u>	<u>Tenn.</u>
1. Clinic Number	X	X	X	X	X	X	X	X
2. Patient Number	X	X	X	X	X	X	X	X
3. Date of Visit	X	X	X	X	X	X	X	X
4. Type of Visit	X	X	X	X	X	X	X	X
5. Date of Birth	X	X	X	X	X	X	X	X
6. Services Provided (Medical/ Counseling)	X	X	X	X	X	X	X	X
7. Referrals to Other Programs	X	X	X	X	X	X	X	
8. Past-Visit Contraceptive Method	X	X	X	X	X	X	X	X
9. Next Appointment Data	X	X	X	X	X	X	X	X
10. Pregnancy History	X	X	X	X	X	X	X	X
11. Welfare Status (P.A./Medicaid Recipient)	X	X	X	X	X	X	X	X
12. Educational Attainment Level	X	X	X	X	X	X	X	X
13. Place of Birth			X				X	
14. Latin American Origin or Descent	X	X	X	X		X	X	
15. Race	X	X	X	X	X	X	X	X
16. Sex	X	X	X	X	X	X	X	X
17. Source of Referral	X	X	X	X	X	X	X	X
18. Contraceptive History	X	X	X	X	X	X	X	X
19. Funding Source	X			X				
20. Service Site Number and Location	X	X	X	X	X	X	X	
21. Address of Patient	X		X		X	X		X
22. Age of Patient	X	X	X	X	X		X	X
23. Marital Status			X	X	X	X	X	X
24. Name of Patient (Full)	X		X	X	X	X	X	X
25. Name of Partner, Parent, Guardian								

	<u>Ala.</u>	<u>Fla.</u>	<u>Ga.</u>	<u>Ky.</u>	<u>Miss.</u>	<u>N.C.</u>	<u>S.C.</u>	<u>Tenn.</u>
26. Regional Patient Number								
27. Religious Preference								
28. Social Security Number	X		X	X	X			X
29. Telephone Number	X		X		X	X		X
30. Encounters	X			X	X	X		X
31. Appointment Failures							X	
32. Clinic Last Visited	X			X		X	X	X
33. Clinic Professionals Seen	X				X		X	X
34. Date of Last Visit	X			X			X	X
35. Patient Type	X			X	X	X	X	X
36. Reason for Closure	X			X	X	X	X	X
37. Session Time	X			X	X	X	X	X
38. Types of Encounters	X			X	X	X		X
39. Project Status at Time of Admission								
40. Medical History					X			
41. Complications in Contraceptive Use				X	X	X		
42. Hospitalization History								
43. Follow-up					X	X		
44. Family Planning Desires								
45. Source of Sex Education								
46. Public Services Used								
47. Employment Status				X				
48. Financial Status	X			X			X	
49. Payment Sources								
50. Amount of Payment								

2.2 BASIC DATA COLLECTION FORMS

For ready reference, the following pages of this working document are used to reproduce the primary data collection forms used by the eight states in Region IV. Secondary forms (such as forms used in some states to capture aggregate figures on counseling sessions, encounters, etc.) are not reproduced.

A single form is shown for two of the states: Alabama and Florida. That form is the "Clinic Visit Record for Family Planning Services" designed by NCHS. At present, it is used only by the Alabama system, but its use is contemplated in the Florida system which is now being programmed. The field indicators shown on the sample used in this document are ones used for the Alabama statewide family planning program.

Two forms are included for North Carolina: the "Patient Master Record" and the "Patient Visit Record." Both forms have been included because both forms are used for primary data collection at the individual patient level.

Two forms are also included for the Tennessee system. The reason in this case, however, is that Tennessee is presently developing a substantial revision of their current system and has already sketched out a rough design for a new data collection form. Though it is important that this proposed form be included in this document in order to accomplish the purposes of the present study, special care should be taken to remember that the proposed document is still quite tentative, and subject to considerable change prior to final approval by the Tennessee statewide family planning program.

The wide diversity among the eight state family planning information systems is reflected by the wide diversity apparent among the various primary data collection forms used by the states to collect more or less the same kind of information. Since the purpose of the present project is to link existing systems in a network rather than design a single system with a single form and unified procedures, close study will have to be given to the nuances of meaning attached to the categories and labels employed by these diverse forms. The foundational work for such a study is presented in section 2.3 of this report.

Social Security No. (Fld. #2)

CLINIC VISIT RECORD FOR FAMILY PLANNING SERVICES

Date of Last Pregnancy Termination (Fld. # 18)

DEPARTMENT OF HEALTH, EDUCATION AND WELFARE PUBLIC HEALTH SERVICE HEALTH RESOURCES ADMINISTRATION NATIONAL CENTER FOR HEALTH STATISTICS

NAME (N/A Fld # 1) (N/A Fld. #2) (N/A Fld. #3) (N/A Fld. #4) ADDRESS (N/A Fld. # 5) (N/A Fld. #6) (N/A Fld. #7) (N/A Fld #8) (N/A Fld. #9)

PREPARED BY CHECKED BY PATIENT NO

CONFIDENTIALITY ASSURANCE: All information which would permit identification of an individual will be held in strict confidence...

(DETACH THIS PART AND RETAIN AT THE CLINIC)

1. SERVICE SITE NUMBER Dist. # - County # (Fld. # 1) 2. PATIENT NUMBER (Fld. #1) 3. DATE OF VISIT (Fld. #3) 4. TYPE OF VISIT 1 Initial Visit 2 Revisit (first visit this year) 3 Revisit (not first visit this year) 4 Readmission Visit (Fld. #4) 5. DATE OF BIRTH (Fld. # 5) 6. Services Provided a. MEDICAL SERVICES Code A = Sickle Cell Code B = Medical History 1 Pap. Smear 2 Pelvic Exam 3 Breast Exam 4 Blood Pressure 5 Pregnancy Testing 6 V. D. Testing 7 Urinalysis (n.e.s.) 8 Blood Test (n.e.s.) 9 Sterilization 10 Infertility Treatment 11 Other (Fld. #6) b. COUNSELING 1 Sterilization 2 Contraception 3 Infertility 4 Other (Fld. # 7) 7. Referred Elsewhere 0 None 1 Abortion 2 Sterilization 3 Infertility Services 4 Other Medical Services 5 Social Services (Fld. # 8) 8. Contraceptive Method at the End of This Visit a. Method: 1 Oral (Pill) 2 IUD 3 Diaphragm 4 Foam 5 Rhythm 6 Condom 7 Injection 8 Sterilization 9 Other 10 None X Interim Method (Fld. # 9) b. If None, give reason 1 Pregnant 2 Other Medical Reason 3 Seeking Pregnancy 4 Other (Fld. #10) 9. Next Appointment a. Date (Fld. # 11) b. Purpose 1 Supply Only 2 Annual Medical 3 Other 4 No Next Appointment 5 Other Medical (Fld. #12) AGENCY USE NCFPS OEO MCHS PP-WP NCHS LOCAL (A) Average weekly income X (Fld # 30) (B) No. in Family XX (Fld. #31) (C) Patient was seen by X (Fld. #33) d. e. f.

Has a Clinic Visit Record been submitted to the NCHS National Family Planning Reporting System for this patient since Jun. 1, 1972? No - Complete items 10 through 18 below Yes - then: Is this the first Record completed for this patient this year? Yes - Complete only Items 10, 11, 12 below No - Stop here (Fld. #13) (Fld. #14) 10. Pregnancy History a. Number of Live Births (Fld. # 15) b. Number of Fetal Deaths (Stillbirths, Abortions & Miscarriages) (Fld. #16) c. Number of Children Now Living (Fld. #17) 11. Welfare Status a. Are You or Anyone in Your Family Receiving Public Assistance? (Fld. #19) b. Are You or Anyone in Your Family Registered for Medicaid? (Fld. # 20) 12. Highest Grade of School Completed None Elementary School High School Code 0 1,2,3,4,5,6,7,8, 9,10,11,12, College More Than 4 Years College Code 13,14,15 or 16 17 (Fld. # 21) 13. Place of Birth (Fld. # 22) 14. Latin-American Origin or Descent (Fld. #22) 15. Race 1 White 2 Black 3 Am. Ind. 4 Other (Fld. #23) 16. Sex 1 Female 2 Male (Fld. # 24) 17. Source of Referral 1 Outreach Worker 2 Other FP Clinic 3 Hospital, or Other Health Agency 4 Private Doctor or Nurse 5 Welfare Agency 6 Another Clinic Patient 7 Family or Friend 8 TV, Radio, Paper Ad. 9 Other 10 Unknown (Fld. #25) 18. Contraceptive History a. Have You Ever Used Any Method to Prevent Pregnancy? (Fld. #26) b. Are You Currently Using Contraception? (Fld. # 27) c. What is the Last Method Used? (Check One) 1 Oral 2 IUD 3 Diaphragm 4 Foam 5 Rhythm 6 Condom 7 Injection 8 Other (Fld. #28) d. Who Prescribed that Method: 1 Clinic 2 Private Doctor 3 Drug Store (non-prescription) 4 Other (Fld. #29) Medicaid Number (Fld. # 32)

00610226

FAMILY PLANNING VISIT

COUNTY NO. CLINIC BLDG. NO. CLINIC TYPE

LAST NAME AT BIRTH (MAIDEN NAME)

TODAY'S DATE

FIRST NAME (NO NICKNAMES)

CURRENT LAST NAME (ENTER "XX" IF SAME AS ABOVE)

BORN ON: RACE ETHNIC SEX

BORN IN: (NEAREST) TOWN OR CITY (NOT COUNTY) STATE

IDENTIFYING NUMBERS: STATE ASSIGNED, SOCIAL SECURITY, SPECIAL AGENCY

ONLY COMPLETE THIS SECTION WHEN: PATIENT NEW TO CLINIC OR NAME FLAGGED ON MASTER FILE OR UPDATE OR CORRECTION.

WHAT COUNTY DO YOU LIVE IN?

HOW MANY GRADES OF SCHOOL HAVE YOU COMPLETED?

ARE YOU MARRIED NOW?

HAVE YOU EVER BEEN MARRIED?

DO YOU WANT TO RECEIVE NOTIFICATION OF APPOINTMENTS AT HOME?

ADDRESS: (street #, street name, town) ZIP CODE

TELEPHONE NO.

COMPLETE GREEN SECTIONS EVERY VISIT

BEFORE THIS VISIT: MARK "CLINIC METHOD" FROM MASTER FILE

AFTER THIS VISIT

IUD

IUD

PILLS

PILLS

INJECTION

INJECTION

FOAM

FOAM

CONDOMS

CONDOMS

DIAPHRAGM

DIAPHRAGM

STERILIZATION

STERILIZATION

RHYTHM

RHYTHM

OTHER

OTHER

NO METHOD

NO METHOD

NOT KNOWN

NOT KNOWN

PRESENTLY USING METHOD MARKED ABOVE?

YES NO

IF "NO", GIVE DATE THIS METHOD WAS STOPPED.

MO YR

WHO PRESCRIBED LAST METHOD USED?

PRIVATE DOCTOR PUBLIC CLINIC

NON-PRESCRIPTION (DRUG STORE)

PREGNANCY HISTORY

MO DA YR DATE LAST PREGNANCY ENDED

IF NEVER PREG OR IF NO CHANGE SINCE LAST VISIT

NUMBER OF PATIENT'S CHILDREN ALIVE NOW

TOTAL

MISCARRIAGES ABORTIONS STILLBIRTHS INFANT DEATHS

SERVICE(S) PROVIDED

- MEDICAL/NURSING, BLOOD PRESSURE, BREAST EXAM, PAP SMEAR, G. C. CULTURE, PELVIC EXAM, URINALYSIS, HEMATOCRIT, V.D. BLOOD TEST, STRING CHECK, STERILIZATION, VAGINITIS RX, OTHER, POSITIVE PREG. TEST, NEGATIVE PREG. TEST

PURPOSE(S) OF NEXT APPOINTMENT

- SUPPLY VISIT OR STRING CHECK, ANNUAL EXAMINATION, MEDICAL PROBLEM, OTHER, NO NEXT APPOINTMENT

MO YR DATE OF NEXT APP.

REFERRED FOR:

- SOCIAL SERVICES, MEDICAL SERVICES, STERILIZATION, ABORTION, INFERTILITY TREATMENT, OTHER

1 ALSO LIST PATIENT ON MASTER FILE IN: COUNTY NO. CLINIC BLDG. NO.

SPECIALS

Grid for SPECIALS with columns A-F and rows 1-6

OPTIONAL

SFPIS CLINIC VISIT RECORD FORM

PATIENT NUMBER

Grid for Patient Number (2)

DATE OF VISIT

Grid for Date of Visit (11)

LAST NAME

Grid for Last Name (17)

FIRST NAME

Grid for First Name (29)

MI

Grid for MI (36)

CLINIC NUMBER REGION COUNTY FACILITY

Grid for Clinic Number (37)

DATE OF BIRTH

Grid for Date of Birth (47)

Type of Visit

- 0. Supply only (scheduled) 1. Intake 2. Revisit (annual checkup) 3. Revisit (not first of yr.) 4. Supply only (unsched.) 5. Unsched. revisit for annual checkup 6. Unsched. non-problem visit 8. Unsched. problem visit including annual checkup 9. Unsched. problem revisit Has a Clinic Visit Record Form ever been submitted to SFPIS for this patient? 1. Yes 2. No - complete sections "A, B, & C" below Is this the first Clinic Visit Record Form submitted this calendar year? 1. Yes - complete sections "B & C" 2. No - complete section "C" only

Section A - Initial Intake Only

- Race 1. Black 2. White 3. Am. Indian 4. Other 5. Mexican-American 6. Oriental 2. Is patient of Latin American descent or origin? 1. Yes 2. No 3. Sex 1. Female 2. Male 4. Current Residence State County

Section B - Annual Updates

- 8. Outcome of last pregnancy 9. Number of unplanned pregnancies 10. Number in household 11. Receiving Public Assistance? 12. Registered for Medicaid? 13. Income 14. Referral Source 15. Education 16. Occupation 6. Number of live births 7. Number of fetal deaths (stillborn, abortions, miscarriages) 8. Number of children now living

Section C - All Visits

- 17. Medicaid Number 18. Last method of contraception 19. Who prescribed or dispensed last method? 20. Patient Status 21. Medical Services 22. Counseling Services 23. Contraceptive method at the end of this visit 24. Interim method? 25. If no method, the reason is - 26. Date of termination of last pregnancy 27. Date of next appointment 28. Purpose of next appointment 29. Associate Referrals 30. Problem visit 31. Sickle Cell Pap Smear Testing VDRL GC Preg 32. Marital Status

Table with columns: NCFPS, OED, MCHS, PPWP, NCHS, LOCAL, Program Code

NAME/ADDRESS (1-4) - TFA1

DEMOGRAPHIC/MEDICAL (1-4) - TFP2

PATIENT NUMBER (5-14) _____ Date(15-20) _____

COUNTY _____ MISSISSIPPI
FAMILY PLANNING PROGRAM

PATIENT NAME _____
Last (21-32) First (33-39) Middle (40)

COUNTY NO. _____ CL. NO. _____ LONG FORM

ADDRESS _____
(41-65 House # Street Apt. City Census Tract (66-68) Zip (69-73) Telephone (74-80)

EVERY VISIT ANSWER SHADED BLOCKS (QUESTIONS 28-50) FOR EACH ADMISSION, READMISSION, NEW TO DATA.

Type Visit (25) 1. New Admission 2. Medical followup 3. Readmission 4. New to Data Sys. 5. Annual Medical	Currently on Welfare (26) 1. No 2. Yes AFDC 3. Yes Other 9. Unknown	Registered for Medicaid (27) 1. No 2. Yes 9. Unknown	Date of Birth (28-33) Mo. Day Yr.	Race (34) 1. White 2. Black 8. Other 9. Unknown	Marital Status (35) 1. Never Married 2. Now Married 3. Previously Married 9. Unknown	School Grades Complete (36-37) Elm. HS. College				No. of Pregnancies (38) 0 5 1 6 2 7 3 8 or more 4 9 Unknown
						00	05	09	13	
						01	06	10	14	
						02	07	11	15	
						03	08	12	16	
04		17 or More								
				99-Unknown						

Number Born Alive (39) 0 6 1 7 2 8 or more 3 9 Unknown 4 5	Number of Living Children (40) 0 5 1 6 2 7 3 8 or more 4 9 Unknown	Children under 5 years (41) 0 5 1 6 2 7 3 8 or more 4 9 Unknown	Date of Termination of Last Pregnancy (42-47) Mo. Day Yr.	Outcome Last Pregnancy (48) 1. Born Alive-Term 2. Born Alive-Premature 3. Born Dead 4. Miscarriage/Abort. 7. Never Pregnant 8. Other 9. Unknown	Main Source of Referral (49) 1. Outreach Worker/Program Personnel 2. Other FP Clinic 3. Another Hospital/Health Agency 4. Pvt. Doctor or Nurse 5. Welfare Department 6. Other Clinic Patient 7. Friend or Relative 8. TV, Radio, Paper AD. 9. Other 0. Unknown	FP Method most used in Past 2 Years (50)	
						1. IUD	6. Injection
						2. Pill	7. Tubal Lig.
						3. Foam	8. Other
						4. Diaphragm	9. Unknown
		5. Condom	0. None				
		A. Vasectomy					

RETURN VISIT ONLY (51-52) Have you been Pregnant since last visit (51) INTENTIONALLY 1. Yes 2. No UNINTENTIONALLY 3. Method Failure 4. Unable to obtain serv. 5. Dissatisfied/Discont. 6. Incorrect Utilization 9. Unknown		(53) Circle for Followup to S. C. Program I	Purpose of Visit (55) 1. FP Services (Contraceptive) 2. Complications of FP 3. Questionable Pregnancy 4. Infertility 5. Other (Specify)	Problems of Method of FP (56-57) 01 Thrombophlebitis 02 Pregnancy 03 Nausea 04 Weight Gain 05 Headaches 06 Infection 07 Expulsion 08 Pain 09 Allergies	10 Irritation 11 Spotting 12 Increased Menstruation 13 Decreased Menstruation 14 Psychological 15 Other 00 None	Counselling (58) 1. Contraceptive 2. Sterilization 3. Infertility 4. Other	Patient was seen by (59) 1. Physician 2. RN only 3. LPN only 4. Nurse-Midwife 5. Other Personnel only 6. FP Nurse Practitioner
Have you completed a year of school since your last visit? 1. Yes 2. No 3. Unknown (52)							

CIRCLE EACH MEDICAL SERVICE PROVIDED THIS VISIT								Primary Method contraception until next visit (67)		
Breast (60) 1. Yes 2. No	Pelvic/Pap (61) 1. Both 2. Pap 3. Pelvic 4. Neither	Serology/GC (62) 1. Both 2. GC 3. Serology 4. Neither	Pregnancy Test (63) 1. Yes 2. No	Urine/BP (64) 1. Both 2. B P 3. Urine 4. Neither	Hgb/Hct (65) 1. Yes 2. No	Other Med/Lab Test (66) 1. Both 2. Med. 3. Lab 4. None	1. IUD 2. Pill 3. Foam 4. Diaphragm	5. Condom 6. Injection 7. Tubal Lig. 8. Other	9. Unknown 0. None A. Vasectomy	

Secondary Method Contraceptive until next Visit (68) 1. IUD 2. Pill 3. Foam 4. Diaphragm	5. Condom 6. Injection 7. Tubal Lig. 8. Other	9. Unknown 0. None A. Vasectomy	Date of Next Appt. (69-74) Mo. Day Yr.	Reason for Next Visit (75) 1. Medical/Routine 2. Resupply Visit 3. Counselling 4. Annual Medical	5. Medical/Complicated 8. Other Medical (Specify) 0. No Return Visit	(76) I	Additional Comments _____ _____
Signature _____						Form No. 208	

Mississippi State Board of Health

QUALITY PRINTING & PACKAGING, INC. JACKSON, MISS. 39204

DEPARTMENT OF HUMAN RESOURCES
North Carolina Statewide
Family Planning Program

Patient Master Record

1. LAST NAME		FIRST NAME		M.I.		32. SERVICE SITE NUMBER		33. PATIENT NUMBER	
2. STREET ADDRESS				Complete for potential, new, new to system, transfer or readmission patients: or to correct information.				34. LOCAL USE	
3. CITY		4. ZIP CODE		13. DATE OF FIRST VISIT TO FAMILY PLANNING SERVICE SITE month day year		23. NUMBER OF CHILDREN NOW LIVING		35. CENSUS TRACT (optional)	
5. PHONE NUMBER		6. MAIL 0: No 1: Yes		14. COUNTY OF RESIDENCE (use code 001-199)		24. NUMBER OF INDUCED ABORTIONS		36. MODEL CITY NUMBER (optional)	
7. PATIENT TYPE 1: New 2: Continuation (new to system) 3: Readmission 4: Transfer 5: Potential 0: Correction		15. MAIN SOURCE OF REFERRAL 1: Family Planning Program Staff 2: Hospital, or Other Health Agency 3: Private Doctor or Nurse 4: Welfare Agency 5: Another Clinic Patient 6: Family or Friend 7: TV, Radio, Paper Ad 8: Other 9: Unknown		25. OUTCOME OF LAST PREGNANCY (if never pregnant, leave blank) 1: Live, weight 5½ lbs. or above 2: Live, weight below 5½ lbs. 3: Fetal Death (exc. Abortion) 4: Induced Abortion 5: Other		26a. FAMILY'S NET INCOME (whole dollars)		37. STAFF NUMBER (optional)	
8. BIRTH DATE month day year		16. HAVE YOU EVER USED ANY METHOD TO PREVENT A PREGNANCY? 0: No 1: Yes		b. IS THIS AMOUNT RECEIVED 1: Weekly 2: Monthly 3: Annually? OR, IF LEFT BLANK, WAS IT 4: Refused 5: Unknown?		26b. FAMILY'S NET INCOME (whole dollars)		NAME AND ADDRESS OF SOMEONE ALWAYS KNOWING PATIENT'S ADDRESS	
9. RACE 1: White 2: Black 3: American Indian 4: Other If Latin American Origin, also (X) Top Box		17. ARE YOU USING ANY METHOD NOW? 0: No 1: Yes		27. NUMBER OF PEOPLE SUPPORTED BY THIS INCOME		28. FAMILY RECEIVING FINANCIAL ASSISTANCE FROM THE DEPARTMENT OF SOCIAL SERVICES (not Social Security) 0: No 1: AFDC 2: APTD 3: AB 4: Other (e. g., food stamps)		THEIR PHONE NUMBER	
10. SEX 1: Female 2: Male		18. WHAT IS THE LAST METHOD YOU USED? 00: None 07: Injection 01: Oral 08: Sterilization 02: IUD 09: Withdrawal 03: Diaphragm 10: Other 04: Foam, Jelly, etc. 05: Rhythm 06: Condom		19. WHO PRESCRIBED THAT METHOD? 0: No Method 3: Private Doctor 1: Clinic 4: Other 2: Drug Store (non-prescription)		29. APPROVED FOR MEDICAID 0: No 1: Yes		ADDITIONAL COMMENTS:	
11. MARITAL STATUS 1: Married 2: Never Married 3: Separated 4: Divorced 5: Spouse Deceased		20. NUMBER OF LIVE BIRTHS		21. NUMBER OF FETAL DEATHS (Stillbirths, abortions, miscarriages)		30. LOCAL USE			
12. HIGHEST GRADE OF SCHOOL COMPLETED None Elementary 00 01, 02, 03, 04, 05, 06, 07, 08, High School College 09, 10, 11, 12 13, 14, 15, 16 Over 4 Years of College 17		22. TOTAL NUMBER OF PREGNANCIES		31. LOCAL USE					
								PREPARED BY:	

DEPARTMENT OF HUMAN RESOURCES
 North Carolina Statewide
 Family Planning Program

Patient Visit Record

1. LAST NAME	FIRST NAME	M.I.
--------------	------------	------

34. SERVICE SITE NUMBER	35. PATIENT NUMBER
-------------------------	--------------------

24. MAILING ADDRESS

Complete for every visit.

12. DATE OF THIS VISIT

month	day	year
-------	-----	------

26. SERVICE SITE LAST VISITED

--	--	--	--	--	--

36. LOCAL USE

--	--	--	--	--	--

5. PHONE NUMBER

6. MAIL
 0: No
 1: Yes

13. BREAST EXAM
 0: No 2: Nurse
 1: MD 3: Other

27. CONTRACEPTIVE METHOD USED PRIOR TO THIS VISIT (see question 30 for code)

--	--	--	--	--	--

37. REASON FOR CLOSURE OF PATIENT

0: Not Closed
 1: Unknown
 2: Medical Reason
 3: Pregnancy (unplanned)
 4: Pregnancy (planned)
 5: Personal
 6: Death
 7: Sterilization
 8: Moved
 9: Other

7. PATIENT TYPE

1: New
 2: Continuation
 3: Readmission
 4: Transfer
 5: Potential
 6: Closure

14. HEART AND LUNG EXAM
 0: No 2: Nurse
 1: MD 3: Other

28. COMPLICATIONS DUE TO METHOD

0: None
 1: Pregnancy
 2: Bleeding
 3: Phlebitis
 4: Pain/Cramps
 5: Perforation
 6: Expulsion
 7: Frequent Headaches or Dizziness
 8: Other Medical
 9: Other

38. TIME & DATE OF NEXT APPOINTMENT

hour	a.m. p.m.	month	day	year
------	--------------	-------	-----	------

8. TYPE OF THIS VISIT

1: Initial Visit
 2: Scheduled Revisit
 3: Annual Medical
 4: Other Medical
 5: Method Problem
 6: Supply Only
 7: Outreach Visit by Staff
 8: Follow-up Care Home Visit
 9: Other

15. PELVIC EXAM
 0: No 2: Nurse
 1: MD 3: Other

29. MAIN REASON FOR CHANGING METHOD

0: No Change
 1: Patient Request
 2: Doctor Recommendation
 3: Other

39. TYPE OF NEXT APPOINTMENT (see question 8 for code)

9. CONTRACEPTIVE SERVICES PROVIDED

0: None
 1: Counseling
 2: Treatment
 3: Supply

REFERRAL FOR:
 4: Abortion
 5: Sterilization

16. PAPANICOLAOU SMEAR
 0: No 2: Nurse
 1: MD 3: Other

30. CONTRACEPTIVE METHOD TO BE USED UNTIL NEXT VISIT (Interim method, fill in cap boxes)

00: None	07: Injection
01: Oral	08: Sterilization
02: IUD	09: Withdrawal
03: Diaphragm	10: Other
04: Foam, Jelly, etc.	
05: Rhythm	
06: Condom	

40. PLACE OF NEXT APPOINTMENT (enter service site no.)

--	--	--	--	--	--

10. INFERTILITY SERVICES PROVIDED

0: None
 1: Counseling
 2: Treatment
 3: Referral

17. GONORRHEA TEST
 0: No 2: Nurse
 1: MD 3: Other

31. IF NONE, GIVE REASON

1: Pregnant
 2: Other Medical Reason
 3: Seeking Pregnancy
 4: Other

41. IF MEDICAID PATIENT, CHECK BOX AND AFFIX LABEL HERE.

11. OTHER SERVICES PROVIDED

0: None
 1: Counseling
 2: Treatment
 3: Babysitting
 4: Transportation

REFERRAL TO:
 5: Medical Services
 6: Social Services
 7: Mental Health Services
 8: Other

19. BLOOD TEST (e. g., Hemoglobin, Hematocrit, Blood Sugar)
 0: No
 1: Yes

32. LOCAL USE

--	--	--	--	--	--

42. IF POTENTIAL OR FORMER AFDC RECIPIENT, ENTER PATIENT'S DSS CASE OR ACCOUNT NUMBER BELOW.

--	--	--	--	--	--

20. PREGNANCY TEST
 0: No
 1: Yes

21. URINALYSIS
 0: No
 1: Yes

22. VAGINAL SMEAR
 0: No
 1: Yes

33. LOCAL USE

--	--	--	--	--	--

23. BLOOD PRESSURE
 0: No
 1: Yes

24. OTHER LAB TESTS (e. g., X-Ray)
 0: No
 1: Yes

25. OTHER MEDICAL EXAMS (e. g., Ht., Wt.)
 0: No
 1: Yes

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL
FAMILY PLANNING SERVICE REPORT

PATIENT NAME

MARK IF NAME IS TO BE RECORDED

LAST FIRST MI

SECTION I (COMPLETE EACH VISIT)

VISIT OR REPORT ONLY? VISIT REPT. ONLY

COUNTY

PATIENT NUMBER

DATE OF VISIT OR REPORT

CLINIC NUMBER

PATIENT TYPE

TYPE OF THIS VISIT

CLINICIAN CODE

EDUCATIONAL SERVICES PROVIDED

EXAM

ABNORMALITY IN EXAM

LAB TESTS

MONTHS OF CONTRACEPTIVE SUPPLIES GIVEN

RETURN DATE

SECTION II (COMPLETE AS APPROPRIATE)

DATE OF BIRTH

SEX

RACE

ORIGIN OR DESCENT (LATIN AMERICAN)

PLACE OF BIRTH

MARITAL STATUS

FINANCIAL STATUS

YEARS SCHOOL COMPLETED

SOURCE OF REFERRAL

PARITY

FETAL DEATHS

LIVING CHILDREN

CONTRACEPTIVE METHOD

INTERIM CONTRACEPTIVE METHOD

PREVIOUS CONTRACEPTIVE METHOD

POSITIVE LAB RESULTS

INFERTILITY

REFERRED ELSEWHERE

SECTION III (COMPLETE WHEN PATIENT IS DISCHARGED)

REASON FOR DISCHARGE

Name/Address (1-4)—TFAI

DATE (15-20) _____
mo da yr

Patient Number (5-14) O- _____

PATIENT NAME _____ County _____

County No. _____ Cl. No. _____

Last (25-35) _____ First (37-43) _____ Middle I. (44) _____
(21-22) (23-24)

TENNESSEE DEPARTMENT
 OF PUBLIC HEALTH
 FAMILY PLANNING
 MEDICAL DEMOGRAPHIC RECORD

FOR COUNTY USE ONLY

Date Indexed	Place Filed

Do not use carbon
 Remove the white and yellow sheet from pad BEFORE writing
 Use Ballpoint Pen
 Where several answers are listed—please circle the correct NUMBER

ADDRESS (45-69)

house # _____ street _____ apt _____ city _____ census tract (70-72) _____ zip (73-77) _____ phone (78-84) _____

(85-95) Medicaid Number

Every visit:		Answer Shaded Blocks (Questions 28-50) for each New Admission or Re-Admission Patient							
Patient's main (25) reason for visit	Currently an (26) welfare?	Registered for (27) Medicaid?	Date of Birth (28-33)	Race (34)	Marital (35) Status	School Grades Completed (36-37)			Number of (38) Pregnancies
1. New Admission 2. Medical Follow-Up 3. Re-Admission 8. Other	1. No 2. Yes-AFDC 3. Yes-Other 4. Potential 9. Former 9. Unknown	1. No 2. Yes 9. Unknown	mo - da - yr	1. White 2. Black 8. Other 9. Unknown	1. Single 2. Married 3. Separated 4. Divorced 5. Widowed 9. Unknown	Elementary 00 05	High School 09 13	College 14 15 16	0 5 1 6 2 7 3 8 or more 4 9 Unknown

Number born (39) alive	Number of (40) Living Children	Children under (41) 5 years old	Date Last (42-47) Delivery	Outcome of (48) Last Delivery	Main Source of Referral (49)	Family Planning Method most (50) used in last 2 years
0 5 1 6 2 7 3 8 or more 4 9 Unknown	0 5 1 6 2 7 3 8 or more 4 9 Unknown	0 5 1 6 2 7 3 4 9 Unknown	mo - da - yr	1. Born Alive—Term 2. Born Alive—Premature* 3. Born Dead 4. Miscarriage 5. Abortion 7. Never Been Pregnant 8. Other 9. Unknown *5 lbs. 8 oz. or less	1. Physician 2. P.H. Nurse 3. Other Health Dept Staff 4. Friend or Rel. 5. Welfare Dept. 6. Other Social Agency 7. Self 8. Other 9. Unknown 0. Hospital	1. IUD 2. Pill 3. Foam 4. Diaphragm 5. Condom 6. A. 7. B. 8. Other 9. Unknown 0. None

Have you been pregnant (51) since your last visit?	Have you completed (52) a year of school since your last visit?	Question (53)	Sex (54)	Patient (59) was seen by:	Circle YES or NO for each medical service this visit.					
1. Yes—if yes, this should be a re-admission visit. 2. No 9. Unknown	1. Yes 2. No 9. Unknown	0 5 1 6 2 7 3 8 4 9	1. Male 2. Female	1. Physician 2. Nurse only 3. Other personnel only 4. Nurse Practitioner	Breast Exam (60)	Pelvic Exam (61)	Pap Smear (62)	Serology (63)	Other Med Test (64)	Other Lab Test (65)
					1. Yes 2. No	1. Yes 2. No	1. Yes 2. No	1. Yes 2. No	1. Yes 2. No	1. Yes 2. No

Method of Contraception Until Next Visit (67-68)

00. None 04. Diaphragm
 01. IUD 05. Condom 08. Other
 02. Pill 06. A 30. Sterilization
 03. Foam 07. B

Date of Next (69-74) Appointment _____
mo da yr

Reasons for Next (75) Visit

1. Medical Follow-Up
 2. Resupply Visit
 3. Annual
 3. Other
 0. No return visit

Additional Comments:

- 14 -

TENNESSEE

TENNESSEE

EXPERIMENTAL
FAMILY PLANNING DATA FORM

TENNESSEE

(Proposed form - not final)

ADDRESS - Number Street Apt. No.

City State Zip Cen. Tr.

TELEPHONE: _____

CONTACT MODE: 1 Telephone 2 Mail 3 Home visit 4 Any method 5 Do not contact

SEX: 1 Male 2 Female RACE: 1 White 2 Black 3 Amer. Indian 4 Other

LATIN AMERICAN ORIGIN: 1 Yes MARITAL STATUS: 1 Single 2 Married 3 Separated 4 Divorced 5 Widowed

YEARS OF EDUCATION: _____ INCOME: 1 2 3 4 5 6 7 8 9 WELFARE STATUS: 1 No 2 AFDC 3 Other 4 Potential 5 Former 6 Not within 6mo.

MEDICAID 1 Yes 2 No MEDICAID NUMBER: _____

LIVING CHILDREN: 0 1 2 3 4 5 6 7 8 (or more)

LIVE BIRTHS: 0 1 2 3 4 5 6 7 8 (or more)

FETAL DEATHS: 0 1 2 3 4 5 6 7 8 (or more)

SOURCE OF REFERRAL: 01 Private M. D. 02 Outreach 03 Health Dept. 04 Friend/relative 05 Welfare Dept. 06 News media 07 Self 08 Other 09 Clinic patient 10 Nurse-midwife program 11 Hospital

EVER USED CONTRACEPTION: 1 Yes 2 No

NOW USING CONTRACEPTION: 1 Yes 2 No

LAST METHOD USED: 01 IUD 02 Pill 03 Foam 04 Diaphragm 05 Condom 06 Rhythm 07 Injection 08 Other

PRESCRIBED BY: 1 Clinic 2 Private M. D. 3 Drugstore 4 Other

NAME - Last First M.I.

BIRTHDATE (mo-day-year) COUNTY CLINIC

PATIENT NUMBER: _____

VISIT DATE: _____

TYPE OF ENTRY: 1 Initial visit 2 Medical revisit 3 Readmission 4 Annual exam 5 Termination 6 Certification 7 Change/correct 8 Supply visit 9 Other

COUNSELING: 1 Contraception 1 Sterilization 1 Infertility 1 Pregnancy 1 Other

MEDICAL SERVICES: 1 Pap smear 1 Pelvic exam 1 Breast exam 1 Heart/lung 1 Other medical 1 Wet smears 1 Blood pressure: 1 Physician 1 P. H. N. 1 F. P. N. P. 1 Nurse midwife 1 L. P. N. 1 Pregnancy test 1 Sickle cell test 1 Urinalysis 1 G. C. Culture 1 V. D. R. L. 1 Other blood test

PATIENT SEEN BY: 1 Social services 1 Aide 1 Clerk 1 Nutritionist 1 Other

CURRENT METHOD: 01 IUD 02 Pill 03 Foam 04 Diaphragm 05 Condom 06 Rhythm 07 Injection 30 Sterilization 09 None 10 Method 'A' 11 Method 'B'

TYPE: (inv. code) _____ AMOUNT: _____

REFERRAL: 1 Sterilization 1 Infertility 1 Other medical 1 Social services 1 Voc. Rehab. 1 Other

DATE of NEXT APPOINTMENT: _____

REASON FOR NEXT VISIT: 0 No next visit 1 Med. followup 2 Resupply 3 Annual exam 4 First medical 5 Prenatal 6 Counseling 7 Other

REASON FOR NEXT VISIT: 01 Unint. preg'cy 02 Desires preg'cy 03 Moved 04 To private care 05 Transient 10 Lost interest 20 Deceased 30 Sterilization 35 Menopause 88 Other 90 Has app't 91 Unknown

PROVIDER: _____

2.3 ANALYSIS OF PRIMARY DATA COLLECTION ELEMENTS

This section of the working document presents the results of a preliminary analysis of the primary data collection forms discussed and reproduced in section 2.2. The analysis was conducted in order to provide the foundation for an understanding and appreciation of the differences between the eight state data systems operational or planned in Regional IV. The differences emerge at every stage of processing, reformatting, and reporting; they are clearest, however, at the collection stage, for that is when they are in a sense created.

Immediately following are two simple listings of each of the data elements analyzed. The first is arranged in simple alphabetic order, according to whatever word happened to appear first in the label of each data element; the second is divided into a number of various logical blocks, each of which contains a subset of information relating to a particular topic or activity and forming a natural cluster of data elements.

Following the two index listings are the tables used to conduct the analysis. Each table contains an identification of the particular atomic element, and this identifying label is associated with a control code for project purposes only. The headings in the table proper are: State; Form Number; Format; When Entered; and Comments. The first two labels are self-explanatory, and only a few comments need be made on the others. The "Format" column is used to record whether there are fixed specifications for entering the data requested or whether the person filling out the form may enter the information without restrictions; naturally, if there indeed are fixed specifications, those specifications are recorded. The "When Entered" column is used to indicate whether the data element is a required entry for every patient visit or only for certain kinds of visits. The "Comments" section is used primarily to provide a further description of the format information specified in the "Format" column; that is, the wording of a particular data element label may be described in the "Comments" section (as for example, the variant labels: "Date of Visit", "Month-Day-Year", "Date of Visit or Report", etc.).

Since Florida plans to use the same form as that currently being used by Alabama, the two states are grouped together for purpose of analysis and appear as Alabama/Florida.

As discussed earlier, North Carolina uses two primary data collection documents. Whenever the same data element appears on both forms, the number of only one of those forms (the "Patient Master Record") will be shown in the table.

The final line in each table is "Prop-Tenn" -- that is to say, the proposed Tennessee form which is being considered for use in the revised Tennessee system but which is not final.

ALPHABETICAL GROUPING	CODE	A	L	G	K	S	M	I	N	S	T	P
DATA ELEMENT		A	L	G	K	S	I	N	S	C	N	P
ABNORMALITY IN EXAM	*A112	-	-	-	-	-	-	-	-	-	-	-
ABORTION (REFERRED FOR:)	*A090	-	-	Y	-	-	-	-	-	Y	-	-
ABORTION COUNSELING	*A028	-	-	Y	-	-	-	-	-	-	-	-
ADDRESS	*0021	Y	-	Y	-	Y	-	-	-	-	Y	-
AMERICAN INDIAN (RACE)	*A118	Y	-	-	-	-	-	-	-	-	-	-
AMOUNT:	*A142	-	-	-	-	-	-	-	-	-	-	-
ANNUAL EXAMINATION	*A082	Y	-	Y	-	Y	-	-	-	-	Y	-
APPOINTMENT NOTIFICATION AT HOME?	*0020	-	-	Y	-	-	-	-	-	-	-	-
ARE YOU CURRENTLY USING CONTRACEPTION?	*A107	Y	-	-	-	-	-	-	-	-	-	-
ARE YOU MARRIED NOW	*0018	-	-	Y	-	Y	-	-	-	-	Y	-
BLACK (RACE)	*A037	Y	-	Y	-	Y	-	-	-	-	Y	-
BLOOD PRESSURE	*A067	Y	-	Y	-	Y	-	-	-	-	-	-
BLOOD TEST	*A129	-	-	-	-	-	-	-	-	-	-	-
BORN IN	*A012	Y	-	Y	-	-	-	-	-	-	-	-
BORN ON	*A008	Y	-	Y	-	Y	-	-	-	-	Y	-
BREAST	*A068	Y	-	Y	-	Y	-	-	-	-	Y	-
CHILDREN UNDER 5 YEARS OLD	*A099	-	-	-	-	-	-	-	-	-	-	-
CL. VISIT REC. FORM BEEN SUBMTD. SFPIS FOR PT.?	*A125	-	-	-	-	-	-	-	-	-	-	-
CLINIC NUMBER	*A004	-	-	Y	-	Y	-	-	-	-	Y	-
CLINIC TYPE	*A005	-	-	Y	-	-	-	-	-	-	-	-
CONDOM (AFTER THIS VISIT)	*A056	Y	-	Y	-	Y	-	-	-	-	-	-
CONDOM (BEFORE THIS VISIT)	*A043	Y	-	Y	-	Y	-	-	-	-	-	-
CONTRACEPTION COUNSELING	*A026	Y	-	Y	-	Y	-	-	-	-	-	-
COUNTY NUMBER	*A003	Y	-	Y	-	Y	-	-	-	-	-	-
CURRENT METHOD:	*A136	-	-	-	-	-	-	-	-	-	-	-
CURRENTLY ON WELFARE?	*A095	Y	-	-	-	Y	-	-	-	-	-	-
DATE FIRST VISIT TO F.P. SERVICE SITE	*A151	-	-	-	-	-	-	-	-	-	-	-
DATE LAST PREGNANCY ENDED	*A029	Y	-	Y	-	Y	-	-	-	-	-	-
DATE OF LAST DELIVERY	*A118	-	-	-	-	-	-	-	-	-	-	-
DATE OF NEXT APPOINTMENT	*A086	Y	-	Y	-	Y	-	-	-	-	-	-
DIAPHRAGM (AFTER THIS VISIT)	*A057	Y	-	Y	-	Y	-	-	-	-	-	-
DIAPHRAGM (BEFORE THIS VISIT)	*A044	Y	-	Y	-	Y	-	-	-	-	-	-
DRUGGIST PRESCRIBED LATEST METHOD	*A051	Y	-	Y	-	-	-	-	-	-	-	-
EDUCATIONAL SERVICES PROVIDED	*A111	-	-	-	-	-	-	-	-	-	-	-
ETHNIC	*A010	Y	-	Y	-	-	-	-	-	-	-	-
FEMALE	*A009	Y	-	Y	-	-	-	-	-	-	-	-
FINANCIAL STATUS	*A116	Y	-	-	-	-	-	-	-	-	-	-
FIRST CLINIC VISIT REC. FORM SUBMITTED CAL. YR.?	*A124	-	-	-	-	-	-	-	-	-	-	-
FIRST NAME	*A006	Y	-	Y	-	Y	-	-	-	-	-	-
FOAM (AFTER THIS VISIT)	*A055	Y	-	Y	-	Y	-	-	-	-	-	-
FOAM (BEFORE THIS VISIT)	*A042	Y	-	Y	-	Y	-	-	-	-	-	-
FORMER AFDC RECIPIENT ENTER DSS CASE OR ACCT. NO	*A149	-	-	-	-	-	-	-	-	-	-	-
G.C. CULTURE	*A070	-	-	Y	-	Y	-	-	-	-	-	-
HAVE COMPLETED YEAR OF SCHOOL SINCE LAST VISIT?	*A103	-	-	-	-	Y	-	-	-	-	-	-
HAVE YOU BEEN PREGNANT SINCE YOUR LAST VISIT?	*A102	-	-	-	-	Y	-	-	-	-	-	-
HAVE YOU EVER BEEN MARRIED	*0019	-	-	Y	-	-	-	-	-	-	-	-
HAVE YOU EVER USED ANY METHOD TO PREVENT PREG.?	*A105	Y	-	-	-	-	-	-	-	-	-	-
HCT OR HGB	*A073	-	-	Y	-	-	-	-	-	-	-	-
HEART/LUNG	*A137	-	-	-	-	-	-	-	-	-	-	-
HIGHEST GRADE OF SCHOOL COMPLETED	*0017	Y	-	Y	-	Y	-	-	-	-	-	-
IF NEVER PREGNANT/NO CHANGE SINCE LAST VISIT	*A030	-	-	Y	-	-	-	-	-	-	-	-
IF NO, DATE STOPPED	*A025	-	-	Y	-	-	-	-	-	-	-	-
INFERTILITY	*A077	Y	-	Y	-	-	-	-	-	-	-	-
INFERTILITY COUNSELING	*A033	Y	-	Y	-	Y	-	-	-	-	-	-
INFERTILITY TREATMENT (REFERRED FOR:)	*A091	-	-	Y	-	-	-	-	-	-	-	-
INJECTION (AFTER THIS VISIT)	*A054	Y	-	Y	-	Y	-	-	-	-	-	-
INJECTION (BEFORE THIS VISIT)	*A041	Y	-	Y	-	Y	-	-	-	-	-	-
IUD (AFTER THIS VISIT)	*A052	Y	-	Y	-	Y	-	-	-	-	-	-
IUD (BEFORE THIS VISIT)	*A039	Y	-	Y	-	Y	-	-	-	-	-	-
LAST NAME (CURRENT)	*A007	Y	-	Y	-	Y	-	-	-	-	-	-
LAST NAME AT BIRTH	*A001	Y	-	Y	-	-	-	-	-	-	-	-
LOCAL USE	*A156	-	-	-	-	-	-	-	-	-	-	-
MAIN SOURCE OF REFERRAL	*A101	Y	-	-	-	Y	-	-	-	-	-	-
MALE	*A011	Y	-	Y	-	-	-	-	-	-	-	-
MARK IF NAME IS TO BE RECORDED	*A108	-	-	-	-	-	-	-	-	-	-	-
MEDICAID NUMBER	*A093	-	-	-	-	Y	-	-	-	-	-	-
MEDICAL HISTORY	*A120	Y	-	-	-	-	-	-	-	-	-	-
MEDICAL PROBLEM (PURPOSE OF NEXT APPOINTMENT)	*A083	Y	-	Y	-	Y	-	-	-	-	-	-
MEDICAL REASON (REASON FOR STOPPING METHOD)	*A065	Y	-	Y	-	-	-	-	-	-	-	-
MEDICAL SERVICES (REFERRED FOR:)	*A088	-	-	Y	-	-	-	-	-	-	-	-
METHOD NOT KNOWN (BEFORE THIS VISIT)	*A048	-	-	Y	-	-	-	-	-	-	-	-
MEXICAN AMERICAN (RACE)	*A127	-	-	-	-	-	-	-	-	-	-	-
MIDDLE NAME (OR INITIAL)	*A106	Y	-	-	-	Y	-	-	-	-	-	-
MODEL CITY NUMBER	*A152	-	-	-	-	-	-	-	-	-	-	-
MONTHS OF CONTRACEPTIVE SUPPLIES GIVEN	*A113	-	-	-	-	-	-	-	-	-	-	-
NAME, ADDR. SOMEONE ALWAYS KNOWING PATIENT'S ADDR	*A154	-	-	-	-	-	-	-	-	-	-	-
NEGATIVE PREG. TEST	*A080	Y	-	Y	-	-	-	-	-	-	-	-

NO NEXT APPOINTMENT	*A085-Y-Y-Y-Y- - -Y-Y-
NONE (AFTER THIS VISIT)	*A061-Y-Y-Y-Y-Y- -Y- -
NONE (ASSOCIATE REFERRAL)	*A130- - -Y- - - - - -
NONE (BEFORE THIS VISIT)	*A131- - -Y- -Y- - - - -
NUMBER BORN ALIVE	*A098-Y- -Y-Y-Y- -Y-Y-
NUMBER IN FAMILY	*A119-Y- -Y- -Y- - - - -
NUMBER OF INDUCED ABORTIONS	*A150- - - -Y- - - - - -
NUMBER OF PATIENT'S CHILDREN ALIVE NOW	*A031-Y-Y-Y-Y-Y-Y-Y-Y-
NUMBER OF PREGNANCIES	*A097- - -Y-Y-Y-Y- - - -
OCCUPATION	*A126- - -Y- - - - - -
ORIENTAL (RACE)	*A123- - -Y- - - - - -
OTHER (BEFORE THIS VISIT)	*A047-Y-Y-Y-Y-Y-Y-Y-Y-
OTHER (COUNSELING)	*A034-Y-Y-Y-Y-Y- - -Y-
OTHER (MEDICAL/NURSING SERVICE(S) PROVIDED)	*A078-Y-Y-Y-Y-Y- - -Y-
OTHER (PURPOSE(S) OF NEXT APPOINTMENT)	*A084-Y-Y-Y-Y-Y- -Y-Y-
OTHER (RACE)	*A115-Y- -Y-Y-Y-Y- -Y-
OTHER (REASON FOR NONE OR METHOD CHANGE)	*A066-Y-Y-Y- -Y- - - - -
OTHER (REFERRED FOR:)	*A092- -Y- - - - - - -
OTHER (WHO PRESCRIBED LAST CONTRACEPTIVE METHOD?)	*A132- - -Y- -Y- - - -Y-
OTHER METHOD (AFTER THIS VISIT)	*A060-Y-Y-Y-Y-Y-Y-Y- - -
OUTCOME OF LAST DELIVERY	*A100- - -Y-Y-Y- -Y- - -
PAP SMEAR	*A069-Y-Y-Y-Y-Y-Y-Y-Y-
PATIENT SEEN BY:	*A135-Y- - -Y- - - -Y-Y-
PATIENT TYPE	*A110- - -Y- -Y-Y- - - - -
PELVIC EXAMINATION	*A071-Y-Y-Y-Y-Y-Y-Y-Y-
PILLS (AFTER THIS VISIT)	*A053-Y-Y-Y-Y-Y-Y-Y- - -
PILLS (BEFORE THIS VISIT)	*A040-Y-Y-Y-Y-Y-Y-Y-Y-
PLACE OF NEXT APPT (ENTER SERV. SITE NO.)	*A148- - - -Y- - - - - -
POSITIVE PREG. TEST	*A079-Y-Y-Y-Y-Y-Y- -Y-
PREGNANCY (COUNSELING)	*A139- - - - - - - -Y-
PREGNANT-PLANNED (REASON FOR STOPPING METHOD)	*A062- -Y-Y- -Y- - - - -
PREGNANT-UNPLANNED (REASON FOR STOPPING METHOD)	*A063- -Y-Y- -Y-Y- - - -
PRENATAL (REASON FOR NEXT APPOINTMENT)	*A140- - - - - - - -Y-
PRESENTLY USING METHOD MARKED ABOVE	*0024- -Y-Y- - -Y- - - -
PRIVATE DOCTOR PRESCRIBED LATEST METHOD	*A049-Y-Y-Y- -Y-Y- -Y-
PROBLEM VISIT	*A127- - -Y- - - - - -
PROBLEMS OF METHOD OF F.P.	*A144- - - -Y-Y- - - - -
PROGRAM CODE	*A134- - -Y- - - - - -
PUBLIC CLINIC PRESCRIBED LATEST METHOD	*A050-Y-Y-Y- -Y-Y- -Y-
PURPOSE OF VISIT	*A145- - - -Y- - - - - -
QUESTION 53	*A104- - - - - - - -Y-
REASON FOR DISCHARGE	*A117- - - - -Y-Y-Y-Y-
REFERRED ELSEWHERE	*A121-Y- -Y- -Y-Y- -Y-
REGISTERED FOR MEDICAID?	*A096-Y- -Y-Y-Y- -Y-Y-
RHYTHM (AFTER THIS VISIT)	*A059-Y-Y-Y- -Y-Y- - - -
RHYTHM (BEFORE THIS VISIT)	*A046-Y-Y-Y- -Y-Y- -Y-
SECONDARY METHOD OF CONTRA. UNTIL NEXT VISIT	*A143- - - -Y- - - - - -
SEEKING PREGNANCY (REASON FOR STOPPING METHOD)	*A064-Y-Y-Y- -Y-Y- -Y-
SERVICE SITE LAST VISITED	*A147- - - - -Y- - - - -
SERVICE SITE NUMBER	*A146- - - - -Y- - - - -
SICKLE CELL ANEMIA TEST	*A075-Y-Y-Y- -Y- -Y-
SOCIAL SECURITY NUMBER	*A014-Y-Y-Y- - - -Y- - -
SOCIAL SERVICES (REFERRED FOR:)	*A087- -Y-Y- - - - - - -
SOCIAL SERVICES COUNSELING	*0023- -Y- - - - - - -
SPECIAL AGENCY NUMBER	*A015- -Y- - - - - - -
SPECIAL STUDIES/ADDITIONAL COMMENTS	*A036- -Y-Y-Y-Y- -Y- - -
STAFF NUMBER	*A153- - - - -Y- - - - -
STATE ASSIGNED NUMBER	*A013-Y-Y-Y-Y-Y-Y-Y-Y-
STERILIZATION	*A076-Y-Y-Y- - - - - - -
STERILIZATION (AFTER THIS VISIT)	*A058-Y-Y-Y-Y-Y-Y-Y- - -
STERILIZATION (BEFORE THIS VISIT)	*A045- -Y- -Y-Y-Y- - - -
STERILIZATION (REFERRED FOR:)	*A089- -Y-Y- -Y- - - - -
STERILIZATION COUNSELING	*A027-Y-Y-Y-Y- - - -Y-
SUPPLY ONLY	*A133- - -Y- - - - - -
SUPPLY VISIT OR STRING CHECK	*A081-Y-Y-Y-Y-Y-Y-Y-Y-
TELEPHONE NUMBER	*0022-Y-Y- -Y-Y- -Y-Y-
THEIR TELEPHONE NUMBER	*A155- - - - -Y- - - - -
TODAY'S DATE	*A002-Y-Y-Y-Y-Y-Y-Y-Y-
TOTAL FETAL DEATHS	*A032-Y-Y-Y- -Y-Y-Y-Y-
TRANSFERRED TO:	*A035- -Y- - - - - - -
TYPE OF THIS VISIT	*A094-Y- -Y-Y-Y-Y-Y-Y-
TYPE: (INV. CODE)	*A141- - - - - - - -Y-
URINALYSIS	*A072-Y-Y-Y-Y-Y-Y- -Y-
V.D. BLOOD TEST	*A074-Y-Y-Y- -Y- - - - -
VDRL	*A128- - -Y- - - - -Y-
VISIT OR REPORT ONLY?	*A109- - - - -Y- - - - -
WET SMEARS	*A138- - - - -Y- - - -Y-
WHAT COUNTY DO YOU LIVE IN	*0016- -Y-Y-Y- - - -Y-
WHITE (RACE)	*A038-Y-Y-Y-Y-Y-Y-Y-Y-

-PATIENT INFORMATION-

LAST NAME (CURRENT)	*A007-Y-Y-Y-Y-Y-Y-Y-Y-
FIRST NAME	*A006-Y-Y-Y-Y-Y-Y-Y-Y-
MIDDLE NAME (OR INITIAL)	*A106-Y- -Y-Y-Y-Y-Y-Y-
MARK IF NAME IS TO BE RECORDED	*A108- - - - -Y- - - -
LAST NAME AT BIRTH	*A001-Y-Y- - - - - - -
BORN ON	*A008-Y-Y-Y-Y-Y-Y-Y-Y-
BORN IN	*A012-Y-Y- - - -Y- - - -
ADDRESS	*0021-Y-Y-Y-Y-Y- -Y-Y-
NAME, ADDR, SOMEONE ALWAYS KNOWING PATIENT'S ADDR	*A154- - - -Y- - - - -
THEIR TELEPHONE NUMBER	*A155- - - -Y- - - - -
WHAT COUNTY DO YOU LIVE IN	*0016- -Y-Y-Y- - - -Y- - -
TELEPHONE NUMBER	*0022-Y-Y- -Y-Y- -Y-Y-
STATE ASSIGNED NUMBER	*A013-Y-Y-Y-Y-Y-Y-Y-Y-
SOCIAL SECURITY NUMBER	*A014-Y-Y-Y- - - -Y- - -
SPECIAL AGENCY NUMBER	*A015- -Y- - - - - - -
MEDICAID NUMBER	*A093- - -Y- -Y- -Y-Y-
FORMER AFDC RECIPIENT ENTER DSS CASE OR ACCT. NO	*A149- - - -Y- - - - -
FEMALE	*A009-Y-Y-Y- -Y-Y-Y-Y-
MALE	*A011-Y-Y-Y-Y-Y-Y-Y-Y-
BLACK (RACE)	*A037-Y-Y-Y-Y-Y-Y-Y-Y-
WHITE (RACE)	*A038-Y-Y-Y-Y-Y-Y-Y-Y-
AMERICAN INDIAN (RACE)	*A114-Y- -Y- -Y-Y- -Y-
OTHER (RACE)	*A115-Y- -Y-Y-Y-Y- -Y-
MEXICAN AMERICAN (RACE)	*A122- - -Y- - - - - -
ORIENTAL (RACE)	*A123- - -Y- - - - - -
ETHNIC	*A010-Y-Y-Y- -Y-Y-Y-Y-

-PATIENT HISTORY-

OCCUPATION	*A126- - -Y- - - - - -
HIGHEST GRADE OF SCHOOL COMPLETED	*0017-Y-Y-Y-Y-Y-Y-Y-Y-
HAVE COMPLETED YEAR OF SCHOOL SINCE LAST VISIT?	*A103- - -Y-Y- - -Y- - -
FINANCIAL STATUS	*A116-Y- -Y- -Y-Y-Y-Y-
CURRENTLY ON WELFARE?	*A095-Y- -Y-Y-Y- -Y-Y-
REGISTERED FOR MEDICAID?	*A096-Y- -Y-Y-Y- -Y-Y-
ARE YOU MARRIED NOW	*0018- -Y-Y-Y-Y-Y-Y-Y-
HAVE YOU EVER BEEN MARRIED	*0019- -Y- - - - - - -
NUMBER IN FAMILY	*A119-Y- -Y- -Y- - - - -
NUMBER OF PREGNANCIES	*A097- - - -Y-Y-Y-Y- - -
NUMBER BORN ALIVE	*A098-Y- -Y-Y-Y- -Y-Y-
NUMBER OF INDUCED ABORTIONS	*A150- - - -Y- - - - -
CHILDREN UNDER 5 YEARS OLD	*A099- - - -Y- - - -Y- -
NUMBER OF PATIENT'S CHILDREN ALIVE NOW	*A031-Y-Y-Y-Y-Y-Y-Y-Y-
OUTCOME OF LAST DELIVERY	*A100- - -Y-Y-Y- -Y- - -
DATE OF LAST DELIVERY	*A118- - - - - - -Y- - -
DATE LAST PREGNANCY ENDED	*A029-Y-Y-Y-Y- - - - - -
TOTAL FETAL DEATHS	*A032-Y-Y-Y- -Y-Y-Y-Y-
HAVE YOU BEEN PREGNANT SINCE YOUR LAST VISIT?	*A102- - - -Y- - -Y- - -
IF NEVER PREGNANT/NO CHANGE SINCE LAST VISIT	*A030- -Y- - - - -Y- - -

A M T P
L G K S I N S E R
CODE A A Y S C C N P

***** DATA ELEMENT *****

-VISIT TYPE INFORMATION-

1DDAY'S DATE	*A002-Y-Y-Y-Y-Y-Y-Y-Y-
DATE FIRST VISIT TO F.P. SERVICE SITE	*A151- - - - -Y- - - -
COUNTY NUMBER	*A003-Y-Y-Y-Y-Y-Y-Y-Y-
CLINIC NUMBER	*A004- -Y-Y-Y- -Y-Y-Y-
CLINIC TYPE	*A005- -Y- - - - - - -
SERVICE SITE NUMBER	*A146- - - - -Y- - - -
SERVICE SITE LAST VISITED	*A147- - - - -Y- - - -
PLACE OF NEXT APPT.(ENTER SERV. SITE NO.)	*A148- - - - -Y- - - -
FIRST CLINIC VISIT REC. FORM SUBMITTED CAL. YR.?	*A124- - -Y- - - - - - -
CL. VISIT REC. FORM BEEN SUBMTD. SFPIS FOR PT.?	*A125- - -Y- - - - - - -
PURPOSE OF VISIT	*A145- - - - -Y- - - -
TYPE OF THIS VISIT	*A094-Y- -Y-Y-Y-Y-Y-Y-
VISIT OR REPORT ONLY?	*A109- - - - -Y- - - -
PROBLEM VISIT	*A127- - -Y- - - - - - -
SUPPLY VISIT OR STRING CHECK	*A081-Y-Y-Y-Y-Y-Y-Y-Y-
SUPPLY ONLY	*A133- - -Y- - - - - - -
MONTHS OF CONTRACEPTIVE SUPPLIES GIVEN	*A113- - - - -Y- - - -
PATIENT TYPE	*A110- - -Y- -Y-Y- - - -
APPOINTMENT NOTIFICATION AT HOME?	*0020- -Y- - - -Y- -Y-Y-
MEDICAL PROBLEM (PURPOSE OF NEXT APPOINTMENT)	*A083-Y-Y-Y-Y-Y- -Y-Y-
PRENATAL (REASON FOR NEXT APPOINTMENT)	*A140- - - - - - - - -Y-
OTHER (PURPOSE(S) OF NEXT APPOINTMENT)	*A084-Y-Y-Y-Y-Y- -Y-Y-
NO NEXT APPOINTMENT	*A085-Y-Y-Y-Y- - -Y-Y-
DATE OF NEXT APPOINTMENT	*A086-Y-Y-Y-Y-Y-Y-Y-Y-
REASON FOR DISCHARGE	*A117- - - - -Y-Y-Y-Y-
PATIENT SEEN BY:	*A135-Y- - - -Y- - -Y-Y-
STAFF NUMBER	*A153- - - - -Y- - - -

-MEDICAL TESTS-

ANNUAL EXAMINATION	*A082-Y-Y-Y-Y-Y-Y-Y-Y-
ABNORMALITY IN EXAM	*A112- - - - -Y- - - -
MEDICAL HISTORY	*A120-Y- - - - -Y- - - -
HEART/LUNG	*A137- - - - -Y- - - -Y-
BLOOD PRESSURE	*A067-Y-Y-Y-Y-Y-Y-Y-
BLOOD TEST	*A129- - -Y- -Y- - -Y-
HCT OR HGB	*A073- -Y- -Y- -Y- - - -
V.D. BLOOD TEST	*A074-Y-Y-Y- -Y- - - -
BREAST	*A068-Y-Y-Y-Y-Y-Y-Y-Y-
PAP SMEAR	*A069-Y-Y-Y-Y-Y-Y-Y-Y-
WET SMEARS	*A138- - - - -Y- - - -Y-
G.C. CULTURE	*A070- -Y-Y-Y-Y-Y- -Y-
PELVIC EXAMINATION	*A071-Y-Y-Y-Y-Y-Y-Y-Y-
URINALYSIS	*A072-Y-Y-Y-Y-Y-Y-Y-
VDRL	*A128- - -Y- - - - -Y-
SICKLE CELL ANEMIA TEST	*A075-Y-Y-Y- - -Y- -Y-
STERILIZATION	*A076-Y-Y-Y- - - - - -
INFERTILITY	*A077-Y-Y-Y- -Y- - - -
POSITIVE PREG. TEST	*A079-Y-Y-Y-Y-Y-Y-Y-
NEGATIVE PREG. TEST	*A080-Y-Y- - -Y- - - -
OTHER (MEDICAL/NURSING SERVICE(S) PROVIDED)	*A078-Y-Y-Y-Y-Y- - -Y-

A L G K M I S T P
 A A Y S C C N O P
 CODE

DATA ELEMENT

-CONTRACEPTIVE INFORMATION-

HAVE YOU EVER USED ANY METHOD TO PREVENT PREG.?	*A105	-Y-	-	-	-Y-	-Y-Y-
ARE YOU CURRENTLY USING CONTRACEPTION?	*A107	-Y-	-	-	-Y-	-Y-Y-
CURRENT METHOD:	*A136	-	-	-	-	-Y-Y-
PRESENTLY USING METHOD MARKED ABOVE	*0024	-	-Y-Y-	-	-Y-	-
IF NO, DATE STOPPED	*A025	-	-Y-	-	-	-
IUD (BEFORE THIS VISIT)	*A039	-Y-Y-	-Y-	-Y-	-Y-Y-	-Y-
PILLS (BEFORE THIS VISIT)	*A040	-Y-Y-	-Y-	-Y-	-Y-Y-	-Y-
INJECTION (BEFORE THIS VISIT)	*A041	-Y-Y-	-Y-	-Y-	-Y-	-Y-
FDAM (BEFORE THIS VISIT)	*A042	-Y-Y-	-Y-	-Y-	-Y-Y-	-Y-
CONDOM (BEFORE THIS VISIT)	*A043	-Y-Y-	-Y-	-Y-	-Y-Y-	-Y-
DIAPHRAGM (BEFORE THIS VISIT)	*A044	-Y-Y-	-Y-	-Y-	-Y-Y-	-Y-
STERILIZATION (BEFORE THIS VISIT)	*A045	-	-Y-	-Y-	-Y-	-
RHYTHM (BEFORE THIS VISIT)	*A046	-Y-Y-	-Y-	-Y-	-Y-	-Y-
OTHER (BEFORE THIS VISIT)	*A047	-Y-Y-	-Y-	-Y-	-Y-Y-	-Y-
METHOD NOT KNOWN (BEFORE THIS VISIT)	*A048	-	-Y-	-Y-	-	-Y-
NONE (BEFORE THIS VISIT)	*A131	-	-	-Y-	-	-
PRIVATE DOCTOR PRESCRIBED LATEST METHOD	*A049	-Y-Y-	-Y-	-Y-	-Y-	-Y-
PUBLIC CLINIC PRESCRIBED LATEST METHOD	*A050	-Y-Y-	-Y-	-Y-	-Y-	-Y-
DRUGGIST PRESCRIBED LATEST METHOD	*A051	-Y-Y-	-Y-	-Y-	-Y-	-Y-
OTHER (WHO PRESCRIBED LAST CONTRACEPTIVE METHOD?)	*A132	-	-	-Y-	-	-Y-
IUD (AFTER THIS VISIT)	*A052	-Y-Y-	-Y-	-Y-	-Y-Y-	-
PILLS (AFTER THIS VISIT)	*A053	-Y-Y-	-Y-	-Y-	-Y-Y-	-
INJECTION (AFTER THIS VISIT)	*A054	-Y-Y-	-Y-	-Y-	-Y-	-
FDAM (AFTER THIS VISIT)	*A055	-Y-Y-	-Y-	-Y-	-Y-Y-	-
CONDOM (AFTER THIS VISIT)	*A056	-Y-Y-	-Y-	-Y-	-Y-Y-	-
DIAPHRAGM (AFTER THIS VISIT)	*A057	-Y-Y-	-Y-	-Y-	-Y-Y-	-
STERILIZATION (AFTER THIS VISIT)	*A058	-Y-Y-	-Y-	-Y-	-Y-Y-	-
RHYTHM (AFTER THIS VISIT)	*A059	-Y-Y-	-Y-	-Y-	-Y-	-
OTHER METHOD (AFTER THIS VISIT)	*A060	-Y-Y-	-Y-	-Y-	-Y-Y-	-
SECONDARY METHOD OF CONTRA. UNTIL NEXT VISIT	*A143	-	-	-Y-	-	-
NONE (AFTER THIS VISIT)	*A061	-Y-Y-	-Y-	-Y-	-Y-	-
PREGNANT-PLANNED (REASON FOR STOPPING METHOD)	*A062	-	-Y-Y-	-Y-	-	-
PREGNANT-UNPLANNED (REASON FOR STOPPING METHOD)	*A063	-	-Y-Y-	-Y-	-	-
SEEKING PREGNANCY (REASON FOR STOPPING METHOD)	*A064	-Y-Y-	-Y-	-Y-	-Y-	-Y-
MEDICAL REASON (REASON FOR STOPPING METHOD)	*A065	-Y-Y-	-Y-	-Y-	-Y-	-
OTHER (REASON FOR NONE OR METHOD CHANGE)	*A066	-Y-Y-	-Y-	-Y-	-Y-	-
PROBLEMS OF METHOD OF F.P.	*A144	-	-	-Y-Y-	-	-

-COUNSELLING SERVICES-

PREGNANCY (COUNSELING)	*A139	-	-	-	-	-Y-
SOCIAL SERVICES COUNSELING	*0023	-	-Y-	-	-	-
CONTRACEPTION COUNSELING	*A026	-Y-Y-	-Y-	-Y-	-	-Y-
STERILIZATION COUNSELING	*A027	-Y-Y-	-Y-	-Y-	-	-Y-
ABORTION COUNSELING	*A028	-	-Y-	-	-	-
INFERTILITY COUNSELING	*A033	-Y-Y-	-Y-	-Y-	-Y-	-Y-
OTHER (COUNSELING)	*A034	-Y-Y-	-Y-	-Y-	-Y-	-Y-
MAIN SOURCE OF REFERRAL	*A101	-Y-	-Y-	-Y-	-Y-Y-	-Y-
REFERRED ELSEWHERE	*A121	-Y-	-Y-	-Y-	-Y-	-Y-
TRANSFERRED TO:	*A035	-	-Y-	-	-	-
SOCIAL SERVICES (REFERRED FOR:)	*A087	-	-Y-Y-	-	-	-
MEDICAL SERVICES (REFERRED FOR:)	*A088	-	-Y-Y-	-	-	-
STERILIZATION (REFERRED FOR:)	*A089	-	-Y-Y-	-Y-	-	-
ABORTION (REFERRED FOR:)	*A090	-	-Y-Y-	-Y-	-	-
INFERTILITY TREATMENT (REFERRED FOR:)	*A091	-	-Y-Y-	-	-	-
OTHER (REFERRED FOR:)	*A092	-	-Y-	-	-	-
NONE (ASSOCIATE REFERRAL)	*A130	-	-Y-	-	-	-

A G K M I S N S T P
 L G K S I N S C C N P
 CODE A A Y S C C N P

-MISCELLANEOUS-

SPECIAL STUDIES/ADDITIONAL COMMENTS

QUESTION 53	*A036-	-Y-	-Y-	-Y-	-Y-	-Y-	-
PROGRAM CODE	*A104-	-	-	-	-	-Y-	-
TYPE: (INV. CODE)	*A134-	-	-Y-	-	-	-	-
AMOUNT:	*A141-	-	-	-	-	-	-Y-
MODEL CITY NUMBER	*A142-	-	-	-	-	-	-Y-
EDUCATIONAL SERVICES PROVIDED	*A152-	-	-	-	-Y-	-	-
LOCAL USE	*A111-	-	-	-	-Y-	-	-
	*A156-	-	-	-	-Y-	-	-

////////////////////////////////////

```

////////////////////////////////////
DATA ELEMENT:LAST NAME AT BIRTH                                CODE:A001
*****
*STATE*FORM NO. * FORMAT *WHEN ENTERED *          COMMENTS          *
*****
*ALA./*NCHS      *NONE      *EVERY VISIT *
*FLA.*          *          *EXCEPT SUPPLY*
*GA.  *DPH/HIS  *15 CHAR *EVERY VISIT *AI BIRTH(MAIDEN NAME)
*      *(7)-55   *          *          *
*KY.  *          *          *          *DUES NOT COLLECT THIS ITEM
*MISS.* 208     *          *          *DUES NOT COLLECT THIS DATA ITEM*
*N.C. * 1457    *          *          *DUES NOT COLLECT THIS DATA ITEM*
*S.C. *          *          *          *DUES NOT COLLECT THIS ITEM
*TENN.*FHS 817  *          *          *DUES NOT COLLECT THIS DATA ITEM*
*PROP=* N/A     *          *          *DUES NOT COLLECT THIS DATA ITEM*
*TENN *          *          *          *

```

```

////////////////////////////////////
DATA ELEMENT:TODAY'S DATE                                    CODE:A002
*****
*STATE*FORM NO. * FORMAT *WHEN ENTERED *          COMMENTS          *
*****
*ALA./*NCHS      *NONE      *EVERY VISIT *"DATE OF VISIT"
*FLA.*          *          *          *
*GA.  *DPH/HIS  *2 DIGITS*EVERY VISIT *MU-DA-YR
*      *(7)-55   *EACH      *          *
*KY.  *          *6CHAR   *EVERY VISIT *"DATE OF VISIT"-- MD-DA-YR
*MISS.* 208     *6 DIGITS*EACH VISIT *DATE
*N.C. * 1457    *6 DIGITS*EVERY VISIT *DATE OF THIS VISIT-- MU-DA- YR
*S.C. *          *SENSE   *EVERY VISIT *"DATE OF VISIT OR REPORT"
*      *          *MARK 2  *          *
*      *          *DIGITS  *          *
*      *          *EACH    *          *
*TENN.*FHS 817  *2 DIGITS*EVERY VISIT *MU-DA-YR
*      *          *EACH    *          *
*PROP=* N/A     *NONE    *EACH VISIT *VISIT DATE
*TENN *          *          *          *

```

```

////////////////////////////////////
DATA ELEMENT:COUNTY NUMBER                                CODE:A003
*****
*STATE*FORM NO. * FORMAT *WHEN ENTERED *          COMMENTS          *
*****
*ALA./*NCHS      *NONE      *EVERY VISIT *SERVICE SITE NUMBER DISTRICT NO*

```



```

*FLA. *          *          *          *          *          *          *
*GA.  *DPH/HIS  *3 CHAR  *EVERY VISIT *          *          *
*     *(7)-55   *          *          *          *          *          *
*KY.  *MCH=280  *NONE   *EACH VISIT *INCLUDED UNDER CLINIC NUMBER *
*     *          *          *          *          *REGION COUNTY FACILITY *
*MISS.* 208    *NONE   *EACH VISIT *          *          *
*N.C. * 1457    *3 DIGITS*NEW ADMIS. & *COUNTY OF RESIDENCE *
*     *          *          *READMIS.   *          *          *
*S.C.D*HEC 1618 *SENSE  *EACH VISIT *COUNTY *
*     *          *MARKS 2 *          *          *
*     *          *DIGITS *          *          *
*TENN.*FHS 817 *2 DIGITS*EVERY VISIT *          *          *
*PROP=* N/A    *NONE   *EACH VISIT *COUNTY *
*TENN *          *          *          *          *          *

```

```

////////////////////////////////////
DATA ELEMENT:CLINIC NUMBER                                CODE:IA004

```

```

*****
*STATE*FORM NO. * FORMAT *WHEN ENTERED *          COMMENTS          *
*****
*ALA./*NCHS    *          *          *          *DUES NOT COLLECT THIS ITEM *
*FLA.*          *          *          *          *          *          *
*GA.  *DPH/HIS  *2 CHAR  *EVERY VISIT *CLINIC BUILDING NUMBER *
*     *(7)-55   *          *          *          *          *          *
*KY.  *MCH=280  *LO      *EACH VISIT *CLINIC NUMBER REGION COUNTY *
*     *          *DIGITS *          *          *FACILITY *
*MISS.* 208    *NONE   *EACH VISIT *CL. NO. *          *
*N.C. * 1457    *          *          *          *DUES NOT COLLECT THIS DATA ITEM*
*S.C. *DHEC 1618*SENSE  *EACH VISIT *          *          *
*     *          *MARK   *          *          *
*TENN.*FHS 817 *2 DIGITS*EVERY VISIT *C.L. NUMBER *
*PROP=* N/A    *NONE   *EACH VISIT *CLINIC *
*TENN *          *          *          *          *          *

```

```

////////////////////////////////////
DATA ELEMENT:CLINIC TYPE                                CODE:IA005

```

```

*****
*STATE*FORM NO. * FORMAT *WHEN ENTERED *          COMMENTS          *
*****
*ALA./*NCHS    *          *          *          *DUES NOT COLLECT THIS DATA ITEM*
*FLA.*          *          *          *          *          *          *
*GA.  *DPH/HIS  *2 CHAR  *          *          *          *
*     *(7)-55   *          *          *          *          *          *
*KY.  *MCH=280  *          *          *          *DUES NOT COLLECT THIS DATA ITEM*
*MISS.* 208    *          *          *          *DUES NOT COLLECT THIS DATA ITEM*

```

```

*N.C. * 1457 * * * * *DUES NOT COLLECT THIS DATA ITEM*
*S.C. *DHEC 1618* * * * *DUES NOT COLLECT THIS DATA ITEM*
*TENN.*FHS 817 * * * * *DUES NOT COLLECT THIS DATA ITEM*
*PROP=* N/A * * * * *DUES NOT COLLECT THIS DATA ITEM*
*TENN * * * * *

```

```

////////////////////////////////////
DATA ELEMENT:FIRST NAME CODE:A006

```

```

*****
*STATE*FORM NO. * FORMAT *WHEN ENTERED * COMMENTS *
*****
*ALA./*NCHS *NONE *EVERY VISIT * *
*FLA. * * * * *
*GA. *DPH/HIS *15 CHAR *EVERY VISIT *-(NO NICKNAMES) *
* *(7)=55 * * * * *
*KY. *MCH=280 *7 CHAR *EVERY VISIT * *
*MISS.* 208 *7 CHAR *EVERY VISIT *PATIENT NAME == FIRST *
*N.C. *1457 & *NONE *EVERY VISIT * *
* *1458 * * * * *
*S.C. *DHEC 1618*NONE *EVERY VISIT * *
*TENN.*FHS 817 *7 CHAR *EVERY VISIT * *
*PROP=* N/A *NONE *EVERY VISIT * *
*TENN * * * * *

```

```

////////////////////////////////////
DATA ELEMENT:LAST NAME (CURRENT) CODE:A007

```

```

*****
*STATE*FORM NO. * FORMAT *WHEN ENTERED * COMMENTS *
*****
*ALA./*NCHS *NONE *EVERY VISIT * LAST *
*FLA. * * * * *
*GA. *DPH/HIS *15 CHAR *EVERY VISIT *ENTER "XX" IF SAME AS LAST NAME*
* *(7)=55 * * * * * *AI BIRTH *
*KY. *MCH=280 *12 CHAR *EVERY VISIT * *
*MISS.* 208 *12 CHAR *EACH VISIT *PATIENT NAME == LAST *
*N.C. *1457 & *NONE *EACH VISIT * *
* *1458 * * * * *
*S.C. *DHEC 1618*NONE *EVERY VISIT * LAST *
*TENN.*FHS 817 *12 CHAR *EVERY VISIT * *
*PROP=* N/A *NONE *EACH VISIT * *
*TENN * * * * *

```

```

////////////////////////////////////
DATA ELEMENT: BORN ON                                     CODE: A008
*****
*STATE*FORM NO. * FORMAT *WHEN ENTERED *              COMMENTS *
*****
*ALA./*NCHS      *NONE   *EVERY VISIT  *"DATE OF BIRTH" *
*FLA.*          *      *      *      *      *
*GA.  *DPH/HIS  *2 CHAR *EVERY VISIT * MO-DA-YR *
*      *(7)-55  *EACH  *      *      *
*KY.  *MCH-280  *6 DIGITS*EVERY VISIT *"DATE OF BIRTH" -- MO-DA-YR *
*MISS.* 208    *6 DIGITS*EACH VISIT *DATA OF BIRTH MO-DA-YR *
*N.C. * 1457    *6 DIGITS*ADMIN. & *BIRTH DATE *
*      *      *      *READMIN.*      *
*S.C. *DHEC 1618*SENSE  *AS      *"DATE OF BIRTH" -- MO-DA-YR *
*      *      *MARK 2 *APPROPRIATE *      *
*      *      *DIGITS *      *      *
*      *      *EACH  *      *      *
*TENN.*FHS 817 *2 CHAR *NEW ADMISSION*"DATE OF BIRTH" -- MO-DA-YR *
*      *      *EACH  *OR RE- *      *
*      *      *      *ADMISSION ONLY*      *
*PROP-* N/A    *NONE   *EACH VISIT  *BIRTH DATE MO-DA-YR *
*TENN *      *      *      *      *      *

```

```

////////////////////////////////////
DATA ELEMENT: FEMALE                                     CODE: A009
*****
*STATE*FORM NO. * FORMAT *WHEN ENTERED *              COMMENTS *
*****
*ALA./*NCHS      *NCHS   *EVERY VISIT  *SEX *
*FLA.*          *      *      *      *      *
*GA.  *DPH/HIS  *SENSE  *EVERY VISIT  *SEX *
*      *(7)-55  *MARK  *      *      *
*KY.  *MCH-280  *1 DIGIT *EVERY VISIT  *SEX *
*      *      *CODE 1 *      *      *
*MISS.* 208    *      *      *      *      *
*      *      *      *      *      *
*N.C. * 1457    *1 DIGIT *NEW ADMIN. & *SEX *
*      *      *CODE 1 *READMIN.*      *
*S.C. *DHEC 1618*SENSE  *AS      *SEX *
*      *      *MARK 1 *APPROPRIATE *      *
*      *      *DIGIT *      *      *
*TENN.*FHS 817 *CODE 2 *NEW ADMISSION*SEX *
*      *      *      *OR RE- *      *
*      *      *      *ADMISSION *      *
*      *      *      *ONLY   *      *
*PROP-* N/A    *CODE 2 *EACH VISIT  *SEX *
*TENN *      *      *      *      *      *

```

```

////////////////////////////////////
DATA ELEMENT: ETHNIC                                     CODE: A010

```

```

*****
*STATE*FORM NO. * FORMAT *WHEN ENTERED *          COMMENTS          *
*****
*ALA./NCHS      *NONE      *EVERY VISIT  *"LATIN-AMERICAN ORIGIN OR *
*FLA.*          *          *          *DESCENT"          *
*GA.  *DPH/HIS  *BLOCK      *EVERY VISIT  *QUESTION:HOW IS THIS ITEM *
*      *(7)-55   *          *          *CUDED?          *
*KY.  *MCH-280  *1 DIGIT    *INITIAL      *IS PATIENT OF LATIN-AMERICAN *
*      *          *YES OR      *INTAKE ONLY  *DESCENT OR ORIGIN?          *
*      *          *NO          *          *          *
*MISS.* 208     *          *          *DUES NOT COLLECT THIS DATA *
*N.C.  * 1457   *1 DIGIT    *NEW ADMIN. & *RACE-IF LATIN AMERICAN URIGIN *
*      *          *          *READMIN.     *ALSO (X) TOP BOX          *
*S.C.  *DHEC 1618 *SENSE      *AS           *URIGIN OR DESCENT (LATIN- *
*      *          *CODE 1     *APPROPRIATE *AMERICAN). YES=""          *
*      *          *DIGIT      *          *          *
*TENN.*FHS 817  *          *          *DUES NOT COLLECT THIS DATA *
*      *          *          *          *ELEMENT          *
*PROP=* N/A     *CODE 1     *EACH VISIT  *LATIN AMERICAN URIGIN *
*TENN.*          *YES        *          *          *

```

```

////////////////////////////////////
DATA ELEMENT:MALE                                     CODE:A011

```

```

*****
*STATE*FORM NO. * FORMAT *WHEN ENTERED *          COMMENTS          *
*****
*ALA./NCHS      *CODE 2     *EVERY VISIT  *SEX *
*FLA.*          *          *          *          *
*GA.  *DPH/HIS  *SENSE      *EVERY VISIT  *SEX  S *
*      *(7)-55   *MARK       *          *          *
*KY.  *MCH-280  *1 DIGIT    *EVERY VISIT  *SEX *
*      *          *CODE 2     *          *          *
*MISS.* 208     *NONE       *EACH VISIT   *IF MALE PATIENT CIRCLE HERE *
*N.C.  * 1457   *1 DIGIT    *NEW ADMIN. & *SEX *
*      *          *CODE 2     *READMIN.     *          *
*S.C.  *DHEC 1618 *SENSE      *AS           *SEX *
*      *          *MARK 1     *APPROPRIATE *          *
*      *          *DIGIT      *          *          *
*TENN.*FHS 817  *CODE 1     *NEW ADMISSION*SEX *
*      *          *          *OR RE=       *          *
*      *          *          *ADMISSION    *          *
*      *          *          *ONLY         *          *
*PROP=* N/A     *CODE 1     *EACH VISIT  *SEX *
*TENN.*          *          *          *          *

```

```

////////////////////////////////////
DATA ELEMENT:BURN IN                                 CODE:A012

```

```

*****
*STATE*FORM NO. * FORMAT *WHEN ENTERED *          COMMENTS          *
*****

```

```

*****
*ALA./*NCHS      *NONE      *EVERY VISIT  *"PLACE OF BIRTH"      *
*FLA. *          *          *              *                      *
*GA.  *DPH/HIS   *TOWN 24  *EVERY VISIT  *(NEAREST TOWN OR CITY NOT *
*      *(7)-55   *CHAR="  *          *          *COUNTY)                *
*KY.  *MCH=280   *          *          *          *DUES NOT COLLECT THIS ITEM *
*MISS.* 208      *          *          *          *DUES NOT COLLECT THIS DATA ITEM*
*N.C. * 1457     *          *          *          *DUES NOT COLLECT THIS DATA ITEM*
*S.C. *DHEC 1618 *SENSE    *AS        *PLACE OF BIRTH  --S.C.  -- *
*      *          *MARK     *APPROPRIATE *OTHER U.S.     --OUTSIDE U.S.*
*TENN.*FHS 817  *          *          *          *DUES NOT COLLECT THIS DATA ITEM*
*PROP=* N/A     *          *          *          *DUES NOT COLLECT THIS DATA ITEM*
*TENN *          *          *          *          *

```

```

////////////////////////////////////
DATA ELEMENT:STATE ASSIGNED NUMBER                                CODE:A013

```

```

*****
*STATE*FORM NO. * FORMAT *WHEN ENTERED *          COMMENTS      *
*****
*ALA./*NCHS      *NONE      *EVERY VISIT  *PATIENT NUMBER      *
*FLA. *          *          *              *                      *
*GA.  *DPH/HIS   *4-3=2/2 *EVERY VISIT  *UNDER IDENTIFYING NUMBERS *
*      *(7)-55   *CHAR    *          *          *
*KY.  *MCH=280   *9 DIGITS*EVERY VISIT  *PATIENT NUMBER (THIS IS *
*      *          *          *          *PROBABLY THE SOCIAL SECURITY *
*      *          *          *          *NUMBER)                    *
*MISS.* 208      *10      *EACH VISIT  *PATIENT NO.         *
*      *          *DIGITS  *          *          *
*N.C. *1457 &    *9 DIGITS*EACH VISIT  *PATIENT NO.         *
*      *1458     *          *          *          *
*S.C. *DHEC 1618 *SENSE    *EVERY VISIT  *PATIENT NUMBER      *
*      *          *MARK 5   *          *          *
*      *          *OR 7    *          *          *
*      *          *DIGITS  *          *          *
*TENN.*FHS 817  *          *          *          *DUES NOT COLLECT TIS ITEM *
*PROP=* N/A     *10      *EACH VISIT  *PATIENT NO.         *
*TENN *          *DIGITS  *          *          *

```

```

////////////////////////////////////
DATA ELEMENT:SUCIAL SECURITY NUMBER                                CODE:A014

```

```

*****
*STATE*FORM NO. * FORMAT *WHEN ENTERED *          COMMENTS      *
*****
*ALA./*NCHS      *NONE      *EVERY VISIT  *          *
*FLA. *          *          *              *          *
*GA.  *DPH/HIS   *3-2=4/2 *EVERY VISIT  *UNDER IDENTIFYING NUMBERS *
*      *(7)-55   *CHAR    *          *          *QUESTION:WHAT ARE THE LAST TWO *

```

```

*          *          *          *          *DIGITS FOR?          *
*KY.  *MCH=280  *9 DIGITS*EVERY VISIT *PATIENT NUMBER          *
*MISS,* 208      *          *          *DUES NOT COLLEC THIS DATA ITEM *
*N.C. * 1457      *          *          *DUES NOT COLLECT THIS DATA ITEM*
*S.C. *DHEC 1618*          *          *DUES NOT COLLECT THIS DATA ITEM*
*TENN.*FHS 817  *NONE     *EVERY VISIT *NEW SOCIAL SECURITY NUMBER=*
*          *          *          *          *NUN-MEDICAL TRANSACTION RECORD,*
*          *          *          *          *USED FOR CORRECTING TEMP   *
*          *          *          *          *NUMBERS. QUESTION:SAME AS  *
*          *          *          *          *PATIENT I.D.?          *
*PROP=* N/A      *          *          *DUES NOT COLLECT THIS DATA ITEM*
*TENN *          *          *          *          *

```

```

////////////////////////////////////
DATA ELEMENT:SPECIAL AGENCY NUMBER          CODE:A015

```

```

*****
*STATE*FORM NO. * FORMAT *WHEN ENTERED *          COMMENTS          *
*****
*ALA./*NCHS     *          *          *DUES NOT COLLECT THIS DATA ITEM*
*FLA.*          *          *          *          *
*GA.  *DPH/HIS  *10 CHAR *EVERY VISIT *UNDER IDENTIFYING NUMBERS  *
*      *(7)=55   *          *          *QUESTION:WHAT DOES IT MEAN? *
*KY.  *MCH=280  *          *          *DUES NOT COLLECT THIS DATA ITEM*
*MISS,* 208      *          *          *DUES NOT COLLECT THIS DATA ITEM*
*N.C. * 1457      *          *          *DUES NOT COLLECT THIS DATA ITEM*
*S.C. *DHEC 1618*          *          *DUES NOT COLLECT THIS DATA ITEM*
*TENN.*FHS 817  *          *          *DUES NOT COLLECT THIS DATA ITEM*
*PROP=* N/A      *          *          *DUES NOT COLLECT THIS DATA ITEM*
*TENN *          *          *          *

```

```

////////////////////////////////////
DATA ELEMENT:WHAT COUNTY DO YOU LIVE IN     CODE:0016

```

```

*****
*STATE*FORM NO. * FORMAT *WHEN ENTERED *          COMMENTS          *
*****
*ALA./*NCHS     *          *          *DUES NOT COLLECT THIS ITEM  *
*FLA.*          *          *          *ONLY COUNTY NUMBER        *
*GA.  *HAT      *DPH/HIS *NEW PATIENT *          *
*      *COUNTY DO*(7)=55 *OR NAME   *          *
*      *YOU LIVE  *          *FLAGGED ON *          *
*      *IN       *          *MASTER FILE*          *
*      *          *          *OK UPDATE OR*          *
*      *          *          *CORRECTION *          *
*KY.  *MCH=280  *3 DIGITS*EVERY VISIT *CURRENT RESIDENCE          *
*MISS,* 208      *NONE     *EACH VISIT *COUNTY                    *
*N.C. * 1457      *          *          *DUES NOT COLLECT THIS DATA ITEM*

```

```

*S.C. *DHEC 1618*          *          *ASKS FOR COUNTY CODE          *
*TENN.*FHS 817 *NONE      *EVERY VISIT *COUNTY          *
*PROP=* N/A      *          *          *DUES NOT COLLECT THIS DATA ITEM*
*TENN *          *          *          *

```

```

////////////////////////////////////
DATA ELEMENT:HIGHEST GRADE OF SCHOOL COMPLETED          CODE:0017

```

```

*****
*STATE*FORM NO. * FORMAT *WHEN ENTERED *          COMMENTS          *
*****
*ALA./*NCHS      *NUMBERS *EVERY VISIT *          *
*FLA. *          *0-17      *          *          *
*GA.  *DPH/HIS   *2 CHAR  *NEW PATIENT *          *
*      *(7)-55     *          *OR NAME     *          *
*      *          *          *FLAGGED ON  *          *
*      *          *          *MASTER FILE *          *
*KY.  *MCH-280   *1 DIGIT *ANNUAL     *EDUCATION   *
*      *          *          *UPDATES     *          *
*MISS.* 208      *2 DIGITS*NEW ADMIN. & *SCHOOL GRADES COMPLETED *
*      *          *          *READMIN.   *          *
*N.C. * 1457      *2 DIGITS*NEW ADMIN. & *HIGHEST GRADE OF SCHOOL *
*      *          *          *READMIN.   *          *
*S.C. *DHEC 1618 *SENSE   *AS        *YEARS SCHOOL COMPLETED *
*      *          *MARK 2  *APPROPRIATE *          *
*      *          *DIGITS  *          *          *
*TENN.*FHS 817   *1-16 17-*NEW-ADMISSION*SCHOOL GRADES COMPLETED, FORM *
*      *          *OR MORE *OR RE-    *PROVIDES SEPARATE QUESTION FOR *
*      *          *99-    *ADMISSION *UPDATING.  *
*      *          *UNKNOWN *          *
*PROP=* N/A      *2 DIGITS*EACH VISIT *YEARS OF EDUCATION   *
*TENN *          *          *          *

```

```

////////////////////////////////////
DATA ELEMENT:ARE YOU MARRIED NOW          CODE:0018

```

```

*****
*STATE*FORM NO. * FORMAT *WHEN ENTERED *          COMMENTS          *
*****
*ALA./*NCHS      *          *          *DUES NOT COLLECT THIS DATA ITEM*
*FLA. *          *          *          *          *
*GA.  *DPH/HIS   *SENSE   *NEW PATIENT *          *
*      *(7)-55     *MARK YES*OR NAME     *          *
*      *          *OR NO    *FLAGGED ON  *          *
*      *          *          *MASTER FILE *          *
*KY.  *MCH-280   *1 DIGIT *          *ASKED AS MARTIAL STATUS *
*MISS.* 208      *1 DIGIT *NEW ADMIN. & *MARITAL STATUS *
*      *          *          *READMIN.   *          *
*N.C. * 1457      *1 DIGIT *NEW ADMIN. & *MARITAL STATUS -- 1.MARRIED, 2*
*      *          *CODES 1-*READMIN. *NEVER MARRIED, 3.SEPARATED, *
*      *          *5          *4.DIVORCED, 5.SPOUSE DECEASED *

```

```

*S.C. *DHEC 1618 *SENSE *AS APPROPRIATE *MARTIAL SIATUS=SINGLE,SEPARATED*
* * *MARKS * * * *MARRIED,DIVORCED,OR WIDOW *
*TENN,*FHS 817 *CODE 2 *NEW ADMISSION *MARTIAL SIATUS *
* * * *OR RE= * *
* * * *ADMISSION * *
* * * *ONLY * *
*PROP=* N/A *CODE 2 *EACH VISIT *MARTIAL SIATUS *
*TENN * * * * *

```

```

////////////////////////////////////
DATA ELEMENT:HAVE YOU EVER BEEN MARRIED CODE:0019

```

```

*****
*STATE*FORM NO. * FORMAT *WHEN ENTERED * COMMENTS *
*****

```

```

*ALA./ *NCHS * * *DUES NOT COLLECT THIS ITEM *
*FLA. * * * *ASKED AS MARITAL STATUS *
*GA. *DPH/HIS *SENSE *NEW PATIENT *
* * *(7)-55 *MARK *OR NAME *
* * * *YES OR *FLAGGED ON *
* * * *NO *MASTER FILE *
*KY. *MCH=280 * * *DUES NOT COLLECT THIS DATA ITEM*
* * * *ASKED AS MARITAL STATUS *
*MISS.* 208 * * *ASKED AS MARITAL STATUS *
*N.C. * 1457 * * *ASKED AS MARITAL STATUS *
*S.C. *DHEC 1618 * * *DUES NOT COLLECT THIS DATA ITEM*
* * * *ASKED AS MARITAL STATUS *
*TENN,*FHS 817 * * *DUES NOT COLLECT THIS DATA ITEM*
* * * *ASKED AS MARITAL STATUS *
*PROP=* N/A * * *ASKED AS MARITAL STATUS *
*TENN * * * *

```

```

////////////////////////////////////
DATA ELEMENT:APPOINTMENT NOTIFICATION AT HOME? CODE:0020

```

```

*****
*STATE*FORM NO. * FORMAT *WHEN ENTERED * COMMENTS *
*****

```

```

*ALA./ *NCHS * * *DUES NOT COLLECT THIS DATA ITEM*
*FLA. * * * *
*GA. *DPH/HIS *SENSE *NEW PATIENT *
* * *(7)-55 *MARK *OR NAME *
* * * *YES OR *FLAGGED ON *
* * * *NO *MASTER FILE *
*KY. *MCH=280 * * *DUES NOT COLLECT THIS DATA ITEM*
*MISS.* 208 * * *DUES NOT COLLECT THIS DATA ITEM*
*N.C. *1457 & *1 DIGIT *EACH VISIT *MAIL == 0=NO , 1=YES *
* * *1458 * * * *
*S.C. *DHEC 1618 * * *DUES NOT COLLECT THIS DATA ITEM*

```



```

*TENN.*FHS 817 * * *DUES NOT COLLECT THIS DATA ITEM*
*PROP-* N/A *CODES 1-*EACH VISIT *CONTACT MODE == 1.TELEPHONE , 2*
*TENN * *5 * *MAIL , 3.HOME VISIT , 4,ANY *
* * * *METHOD , 5.DD NOT CONTACT *

```

```

////////////////////////////////////
DATA ELEMENT:ADDRESS CODE:0021
*****
*STATE*FORM NO. * FORMAT *WHEN ENTERED * COMMENTS *
*****
*ALA./*NCHS *NONE *EVERY VISIT *STREET, CITY, STATE, ZIP CODE *
*FLA. * * * * *
*GA. *DPH/HIS *ADDRESS,*NEW PATIENT *ADDRESS FURMAT IS STREET #, *
*(7)-55 *32 CHAR,*OR NAME *STREET NAME, TOWN *
* * * * * * *
* * * * * * *
* * * * * * *
*KY. *MCH=280 *2 DIGITS*EACH VISIT *STATE IS INCLUDED ONLY UNDER *
* * * * * * *CURRENT RESIDENCE *
*MISS,* 208 *33 CHAR *NEW ADMIN. & *HOUSE NO., STREET,CITY,CENSUS *
* * * * * * *READMIN. *TRACT, ZIP *
*N.C. *1457 & *NONE *EVERY VISIT *1457=STREET ADDRESS,CITY, ZIP *
* * * * * * * *CODE,CENSUS TRACT 1458-MAILING*
* * * * * * * *ADDRESS *
*S.C. *DHEC 1618* * * *DUES NOT COLLECT THIS DATA ITEM*
*TENN.*FHS 817 *33 CHAR *NEW ADMISSIDN*HOUSE, STREET, APT., CITY, *
* * * * * * *OR RE=*CENSUS TRACT, ZIP *
* * * * * * *ADMISSION * *
*PROP-* N/A *NONE *EVERY VISIT *NUMBER,STREET,APT. NO.,CITY, *
*TENN * * * * * * *STATE, ZIP *

```

```

////////////////////////////////////
DATA ELEMENT:TELEPHONE NUMBER CODE:0022
*****
*STATE*FORM NO. * FORMAT *WHEN ENTERED * COMMENTS *
*****
*ALA./*NCHS *NONE *EACH VISIT *PHONE NO *
*FLA. * * * * *
*GA. *DPH/HIS *7 CHAR *NEW PATIENT * *
*(7)-55 * * *OR NAME * *
* * * * * * * *FLAGGED ON * *
* * * * * * * *MASTER FILE * *
*KY. *MCH=280 * * * *DUES NOT COLLECT THIS DATA ITEM*
*MISS,* 208 *7 CHAR *NEW ADMISSIDN*TELEPHONE *
* * * * * * *OR RE=* *
* * * * * * *ADMISSION * *
*N.C. *1457 & *NONE *EACH VISIT *PHONE NUMBER *
* * * * * * * * *
*S.C. *DHEC 1618* * * *DUES NOT COLLECT THIS DATA ITEM*
*TENN.*FHS 817 *7 CHAR *NEW ADMISSIDN* *

```

```

*      *      *      *OR RE=      *
*      *      *      *ADMISSION *
*      *      *      *ONLY      *
*PROP=* N/A    *7 CHAR *EACH VISIT *
*TENN *      *      *      *      *

```

```

////////////////////////////////////
DATA ELEMENT: SOCIAL SERVICES COUNSELING      CODE: 0023

```

```

*****
*STATE*FORM NO. * FORMAT *WHEN ENTERED *      COMMENTS      *
*****
*ALA./*NCHS      *      *      *DUES NOT COLLECT THIS DATA ITEM*
*FLA.*      *      *      *
*GA.  *DPH/HIS  *SENSE  *EVERY VISIT *SERVICE(S) PROVIDED SECTION *
*      *(7)=55    *MARK   *      *
*KY.  *MCH=280  *      *      *DUES NOT COLLECT THIS DATA ITEM*
*MISS.* 208    *      *      *DUES NOT COLLECT THIS DATA ITEM*
*N.C.* 1457    *      *      *DUES NOT COLLECT THIS DATA ITEM*
*S.C.*DHEC 1618*      *      *DUES NOT COLLECT THIS DATA ITEM*
*TENN.*FHS 817 *      *      *DUES NOT COLLECT THIS DATA ITEM*
*PROP=* N/A    *      *      *DUES NOT COLLECT THIS DATA ITEM*
*TENN *      *      *      *

```

```

////////////////////////////////////
DATA ELEMENT: PRESENTLY USING METHOD MARKED ABOVE      CODE: 0024

```

```

*****
*STATE*FORM NO. * FORMAT *WHEN ENTERED *      COMMENTS      *
*****
*ALA./*NCHS      *      *      *DUES NOT COLLECT THIS DATA ITEM*
*FLA.*      *      *      *
*GA.  *DPH/HIS  *SENSE  *EVERY VISIT *RELATES TO A042 A051 *
*      *(7)=55    *MARK YES*      *
*      *      *OR NO  *      *
*KY.  *MCH=280  *1 DIGIT *EACH VISIT *INTERIM METHOD *
*      *      *YES OR *      *
*      *      *NO    *      *
*MISS.* 208    *      *      *DUES NOT COLLECT THIS DATA ITEM*
*N.C.* 1457    *      *      *DUES NOT COLLECT THIS DATA ITEM*
*S.C.*DHEC 1618*SENSE  *AS    *CONTRACEPTIVE METHOD *
*      *      *MARKS 1 *APPROPRIATE *
*      *      *DIGIT  *      *
*TENN.*FHS 817 *      *      *DUES NOT COLLECT THIS DATA ITEM*
*PROP=* N/A    *      *      *DUES NOT COLLECT THIS DATA ITEM*
*TENN *      *      *      *

```

```

////////////////////////////////////
DATA ELEMENT: JF NO, DATE STOPPED                                CODE: A025
*****
*STATE*FORM NO. * FORMAT *WHEN ENTERED *          COMMENTS          *
*****
*ALA./*NCHS      *      *          *DUES NOT COLLECT THIS DATA ITEM*
*FLA.*          *      *          *
*GA.  *DPH/HIS  *MO/YR 2 *EVERY VISIT *RELATES TO A024          *
*      *(7)-55  *CHAR    *          *          *          *
*      *        *EACH    *          *          *          *
*KY.  *MCH=280  *      *          *DUES NOT COLLECT THIS DATA ITEM*
*MISS.* 208    *      *          *DUES NOT COLLECT THIS DATA ITEM*
*N.C.* 1457    *      *          *DUES NOT COLLECT THIS DATA ITEM*
*S.C.*DHEC 1618*      *          *DUES NOT COLLECT THIS DATA ITEM*
*TENN.*FHS 817 *      *          *DUES NOT COLLEC THIS DATA ITEM *
*PROP=* N/A    *      *          *DUES NOT COLLECT THIS DATA ITEM*
*TENN.*        *      *          *

```

```

////////////////////////////////////
DATA ELEMENT: CONTRACEPTION COUNSELING                          CODE: A026
*****
*STATE*FORM NO. * FORMAT *WHEN ENTERED *          COMMENTS          *
*****
*ALA./*NCHS      *CODE 2 *EVERY VISIT *SERVICES PROVIDED B, COUNSELING*
*FLA.*          *      *          *          *          *
*GA.  *DPH/HIS  *SENSE  *EVERY VISIT *SERVICE(S) PROVIDED SECTION *
*      *(7)-55  *MARK    *          *          *          *
*KY.  *MCH=280  *1 DIGIT *EACH VISIT *COUNSELING SERVICES (4 POSSIBLE*
*      *        *CODE 2  *          *DIGITS)          *
*MISS.* 208    *CODE 1  *NEW ADMISSION *COUNSELING          *
*      *        *        *OR RE-      *          *          *
*      *        *        *ADMISSION  *          *          *
*N.C.* 1458    *CODE 1  *EVERY VISIT *CONTRACEPTIVE SERVICES PROVIDED*
*      *        *        *          * = 1, COUNSELING *
*S.C.*DHEC 1618*      *          *DUES NOT COLLECT THIS DATA ITEM*
*TENN.*FHS 817 *      *          *DUES NOT COLLECT THIS DATA ITEM*
*PROP=* N/A    *NONE    *AS APPROPRIATE *COUNSELING          *
*TENN.*        *      *          *

```

```

////////////////////////////////////
DATA ELEMENT: STERILIZATION COUNSELING                          CODE: A027
*****
*STATE*FORM NO. * FORMAT *WHEN ENTERED *          COMMENTS          *
*****

```

```

*ALA./ *NCHS      *CODE 1  *EVERY VISIT  *SERVICES PROVIDED B, COUNSELING*
*FLA. *          *          *          *          *          *
*GA.   *DPH/HIS  *SENSE   *EVERY VISIT  *SERVICE(S) PROVIDED SECTION  *
*      *(7)-55   *MARK    *          *          *          *
*KY.   *MCH=280  *1 DIGIT *EACH VISIT   *COUNSELING SERVICES (4 POSSIBLE*
*      *          *CODE 1  *          *          *DIGITS) *
*MISS.* 208     *CODE 2  *NEW ADMISSION *COUNSELING *
*      *          *          *OR RE-      *          *
*      *          *          *ADMISSION   *          *
*N.C.  * 1457   *          *          *          *DUES NOT COLLECT THIS DATA ITEM*
*S.C.  *DHEC 1618*          *          *          *DUES NOT COLLECT THIS DATA ITEM*
*TENN.*FHS 817  *          *          *          *DUES NOT COLLECT THIS DATA ITEM*
*PROP-* N/A     *NONE    *AS APPROPRIATE *COUNSELING *
*TENN *          *          *          *          *

```

```

////////////////////////////////////
DATA ELEMENT:ABORTION COUNSELING                                CODE:A028

```

```

*****
*STATE*FORM NO. * FORMAT *WHEN ENTERED *          COMMENTS *
*****
*ALA./ *NCHS      *          *          *DUES NOT COLLECT THIS DATA ITEM*
*FLA. *          *          *          *          *
*GA.   *DPH/HIS  *SENSE   *EVERY VISIT  *SERVICE(S) PROVIDED SECTION  *
*      *(7)-55   *MARK    *          *          *          *
*KY.   *MCH=280  *          *          *          *DUES NOT COLLECT THIS DATA ITEM*
*MISS.* 208     *          *          *          *DUES NOT COLLECT THIS DATA ITEM*
*N.C.  * 1457   *          *          *          *DUES NOT COLLECT THIS DATA ITEM*
*S.C.  *DHEC 1618*          *          *          *DUES NOT COLLECT THIS DATA ITEM*
*TENN.*FHS 817  *          *          *          *DUES NOT COLLECT THIS DATA ITEM*
*PROP-* N/A     *          *          *          *DUES NOT COLLECT THIS DATA ITEM*
*TENN *          *          *          *          *

```

```

////////////////////////////////////
DATA ELEMENT:DATE LAST PREGNANCY ENDED                          CODE:A029

```

```

*****
*STATE*FORM NO. * FORMAT *WHEN ENTERED *          COMMENTS *
*****
*ALA./ *NCHS      *NONE    *EVERY VISIT  *DATE OF LAST PREGNANCY *
*FLA. *          *          *          *TERMINATION *
*GA.   *DPH/HIS  *MO/DA/YR *EVERY VISIT  *SEE MASTER FILE *
*      *(7)-55   */ 2 CHAR *          *          *          *
*      *          *EACH    *          *          *          *
*KY.   *MCH=280  *6 DIGITS *EACH VISIT   *DATE OF TERMINATION OF LAST *
*      *          *          *          *PREGNANCY *
*MISS.* 208     *6 DIGITS *NEW ADMISSION *DATE OF TERMINATION OF LAST *
*      *          *          *OR RE-      *PREGNANCY *

```

```

*      *      *      *ADMISSION *
*N.C. * 1457 *      *      *DUES NOT COLLECT THIS DATA ITEM*
*S.C. *DHEC 1618* *      *      *DUES NOT COLLECT THIS DATA ITEM*
*TENN.*FHS 817 *      *      *DUES NOT COLLECT THIS DATA ITEM*
*PROP-* N/A *      *      *DUES NOT COLLECT THIS DATA ITEM*
*TENN *      *      *

```

```

////////////////////////////////////
DATA ELEMENT:IF NEVER PREGNANT/NO CHANGE SINCE LAST VISIT      CODE:A030
*****
*STATE*FORM NO. * FORMAT *WHEN ENTERED *      COMMENTS *
*****
*ALA./*NCHS *      *      *DUES NOT COLLECT THIS DATA ITEM*
*FLA. *      *      *
*GA. *DPH/HIS *SENSE *EVERY VISIT *
* * * (7)-55 *MARK *
*KY. *MCH=280 *      *      *DUES NOT COLLECT THIS DATA ITEM*
*MISS,* 208 *      *      *DUES NOT COLLECT THIS DATA ITEM*
*N.C. * 1457 *      *      *DUES NOT COLLECT THIS DATA ITEM*
*S.C. *DHEC 1618* *      *      *DUES NOT COLLECT THIS DATA ITEM*
*TENN.*FHS 817 *1 CHAR *      *CODE 7 OF QUESTION "OUTCOME OF *
* * * *      *LAST DELIVERY" *
*PROP-* N/A *      *      *DUES NOT COLLECT THIS DATA ITEM*
*TENN *      *      *

```

```

////////////////////////////////////
DATA ELEMENT:NUMBER OF PATIENT'S CHILDREN ALIVE NOW      CODE:A031
*****
*STATE*FORM NO. * FORMAT *WHEN ENTERED *      COMMENTS *
*****
*ALA./*NCHS *NONE *EXCEPT SUPPLY*PREGNANCY HISTORY NUMBER OF *
*FLA. *      * *VISIT *CHILDREN NOW LIVING ENTER *
* * * *      *NUMBER *
*GA. *DPH/HIS *2 CHAR *EVERY VISIT *
* * * (7)-55 * *
*KY. *MCH=280 *1 DIGIT *ANNUAL UPDATE*NUMBER OF CHILDREN NOW LIVING *
*MISS,* 208 *CODES 0-*NEW ADMISSION*NUMBER OF LIVING CHILDREN = *
* * * *9 *OR RE=*CODES 0-7, CODE 8=8 OR MORE, CODE *
* * * *ADMISSION *9=UNKNOWN *
*N.C. * 1457 *2 DIGITS*NEW ADMISSION*NUMBER OF CHILDREN NOW LIVING *
* * * *OR RE=* *
* * * *ADMISSION * *
*S.C. *DHEC 1618*SENSE *AS *LIVING CHILDREN *
* * * *MARKS 1 *APPROPRIATE *
* * * *DIGIT * *
*TENN.*FHS 817 *1 DIGIT *NEW ADMISSION*NUMBER OF LIVING CHILDREN 0 - 7*

```

```

*      *      *      *OR      *8 = 8 9 = UNKNOWN      *
*      *      *      *READMISSION *      *
*PROP=* N/A      *CODES 0=*EACH VISIT *LIVING CHILDREN *
*TENN *      *8      *

```

```

////////////////////////////////////
DATA ELEMENT:TOTAL FETAL DEATHS      CODE:A032
*****
*STATE*FORM NO. * FORMAT *WHEN ENTERED *      COMMENTS      *
*****
*ALA./*NCHS      *NONE      *      *PREGNANCY HISTORY B. NUMBER OF *
*FLA. *      *      *      *FETAL DEATHS ENTER NUMBER *
*GA. *DPH/HIS *2 CHAR *EVERY VISIT *MISCARRIAGES, ABORTIONS, *
*(7)-55 *      *      *      *STILLBIRTHS, INFANT DEATHS *
*KY. *MCH=280 *1 DIGIT *ANNUAL UPDATE*NUMBER OF FETAL DEATHS *
*MISS.* 206 *      *      *      *DUES NOT COLLECT THIS DATA ITEM*
*N.C. * 1457 *CODE 1 *NEW ADMISSION*NUMBER OF FETAL DEATHS *
*      *      *      *OR RE- *      *
*      *      *      *ADMISSION *      *
*S.C. *DHEC 1618*SENSE *AS *FETAL DEATHS *
*      *      *MARK 1 *APPROPRIATE *      *
*      *      *DIGIT *      *      *
*TENN.*FHS 817 *      *      *      *DUES NOT COLLECT THIS DATA *
*PROP=* N/A      *CODES 0=*EACH VISIT *FETAL DEATHS *
*TENN *      *8      *      *

```

```

////////////////////////////////////
DATA ELEMENT:INFERTILITY COUNSELING      CODE:A033
*****
*STATE*FORM NO. * FORMAT *WHEN ENTERED *      COMMENTS      *
*****
*ALA./*NCHS      *CODE 3 *EVERY VISIT *COUNSELING *
*FLA. *      *      *      *      *      *
*GA. *DPH/HIS *SENSE *EVERY VISIT *SERVICE(S) PROVIDED SECTION *
*(7)-55 *MARK *      *      *      *      *
*KY. *MCH=280 *1 DIGIT *EACH VISIT *COUNSELING SERVICES (4 POSSIBLE *
*      *      *CODE 3 *      *      *DIGITS) *
*MISS.* 208 *CODE 3 *EACH VISIT *COUNSELING *
*N.C. *1458 *CODE 1 *EVERY VISIT *INFERTILITY SERVICES PROVIDED *
*      *      *      *      *1.COUNSELING *
*S.C. *DHEC 1618*SENSE *AS *      *
*      *      *MARK 1 *APPROPRIATE *      *
*      *      *DIGIT *      *      *
*TENN.*FHS 817 *      *      *      *DUES NOT COLLECT THIS DATA *
*PROP=* N/A      *NONE *AS *COUNSELING *
*TENN *      *      *APPROPRIATE *      *

```

////////////////////////////////////

DATA ELEMENT: OTHER (COUNSELING) CODE: A034

*STATE*FORM NO. * FORMAT *WHEN ENTERED * COMMENTS *

*ALA./*NCHS *FLA. *	*CODE 4 *	*EVERY VISIT *	*SERVICES PROVIDED B, COUNSELING* *
*GA. *DPH/HIS *(7)-55	*SENSE *MARK	*EVERY VISIT *	*SERVICE(S) PROVIDED SECTION * *
*KY. *MCH=280 *	*1 DIGIT *CODE 4	*EACH VISIT *	*COUNSELING SERVICES (4 POSSIBLE* *DIGITS) OTHER SPECIFY * *
*MISS. * 208	*CODE 4	*EACH VISIT	*COUNSELING *
*N.C. *1458 *	*CODE 1 *	*EVERY VISIT *	*OTHER SERVICES PROVIDED = 1. * *COUNSELING *
*S.C. *DHEC 1618*	*	*	*DUES NOT COLLECT THIS DATA ITEM*
*TENN.*FHS 817 *	*	*	*DUES NOT COLLECT THIS DATA ITEM*
PROP= N/A *TENN *	*NONE *	*AS *APPROPRIATE	*COUNSELING * *

////////////////////////////////////

DATA ELEMENT: TRANSFERRED TO: CODE: A035

*STATE*FORM NO. * FORMAT *WHEN ENTERED * COMMENTS *

*ALA./*NCHS *FLA. *	*	*	*DUES NOT COLLECT THIS DATA ITEM* *
*GA. *DPH/HIS *(7)-55	*COUNTY *NO. 3 *CHAR,	*	* * * * * * *
*KY. *MCH=280	*	*	*DUES NOT COLLECT THIS DATA ITEM*
*MISS. * 208	*	*	*DUES NOT COLLECT THIS DATA ITEM*
*N.C. * 1457	*	*	*DUES NOT COLLECT THIS DATA ITEM*
*S.C. *DHEC 1618*	*	*	*DUES NOT COLLECT THIS DATA ITEM*
*TENN.*FHS 817 *	*	*	*DUES NOT COLLECT THIS DATA ITEM*
PROP= N/A *TENN *	*	*	*DUES NOT COLLECT THIS DATA ITEM* *

////////////////////////////////////

DATA ELEMENT: SPECIAL STUDIES/ADDITIONAL COMMENTS CODE: A036

*STATE*FORM NO. * FORMAT *WHEN ENTERED * COMMENTS *

```

*****
*ALA./*NCHS      *      *      *DUES NOT COLLECT THIS DATA ITEM*
*FLA. *          *      *      *
*GA.  *DPH/HIS   *6 X 6   *      *OPTIONAL
*(7)-55 *MATRIX *      *
*      *      *ROWS 1 *      *
*      *      *6 COL. A*      *
*      *      *=-F    *      *
*KY.  *MCH=280   *6 X 6   *EACH VISIT *
*      *      *MATRIX *      *
*MISS.* 208      *NONE   *EACH VISIT *ADDITIONAL COMMENTS
*N.C. * 1457      *NONE   *NEW ADMISSION*ADDITIONAL COMMENTS
*      *      *      *OR RE=
*      *      *      *ADMISSION *
*S.C. *DHEC 1618 *      *      *DUES NOT COLLECT THIS DATA ITEM*
*TENN.*FHS 817  *NONE   *      *ADDITIONAL COMMENTS
*PROP=* N/A      *      *      *DUES NOT COLLECT THIS DATA ITEM*
*TENN *          *      *      *

```

```

////////////////////////////////////
DATA ELEMENT:BLACK (RACE)                                CODE:A037

```

```

*****
*STATE*FORM NO. * FORMAT *WHEN ENTERED *      COMMENTS
*****
*ALA./*NCHS      *CODE 2 *EVERY VISIT *RACE
*FLA. *          *      *      *
*GA.  *DPH/HIS   *SENSE  *      *RACE
*(7)-55 *MARK   *      *
*KY.  *MCH=280   *1 DIGIT *INITIAL *RACE
*      *      *CODE 1 *INTAKE ONLY *
*MISS.* 208      *CODE 2 *NEW ADMISSION*RACE
*      *      *      *OR RE=
*      *      *      *ADMISSION *
*N.C. * 1457      *CODE 2 *NEW ADMISSION*RACE
*      *      *      *OR RE=
*      *      *      *ADMISSION *
*S.C. *DHEC 1618 *SENSE  *AS *RACE
*      *      *MARK 1 *APPROPRIATE *
*      *      *DIGIT *      *
*TENN.*FHS 817  *CODE 2 *NEW ADMISSION*RACE
*      *      *      *OR
*      *      *      *READMISSION *
*      *      *      *ONLY
*PROP=* N/A      *CODE 2 *EACH VISIT *RACE
*TENN *          *      *      *

```

```

////////////////////////////////////
DATA ELEMENT:WHITE (RACE)                                CODE:A038

```

```

*****
*STATE*FORM NO. * FORMAT *WHEN ENTERED *      COMMENTS
*****

```



```

*****
*ALA./NCHS      *CODE 1  *EVERY VISIT  *RACE
*FLA. *
*GA.  *DPH/HIS  *SENSE   *          *RACE
*      *(7)-55  *MARK    *          *
*KY.  *MCH=280  *1 DIGIT *INITIAL   *RACE
*      *          *CODE 2  *INTAKE ONLY *
*MISS.* 208     *CODE 1  *NEW ADMISSION *RACE
*      *          *          *OR RE=      *
*      *          *          *ADMISSION   *
*N.C. * 1457    *CODE 1  *NEW ADMISSION *RACE
*      *          *          *OR RE=      *
*      *          *          *ADMISSION   *
*S.C. *DHEC 1618 *SENSE   *AS        *RACE
*      *          *MARK 1  *APPROPRIATE *
*      *          *DIGIT   *          *
*TENN.*FHS 817  *CODE 1  *NEW ADMISSION *RACE
*      *          *          *OR          *
*      *          *          *READMISSION *
*PRDP=* N/A     *CODE 1  *EACH VISIT  *RACE
*TENN *          *          *          *

```

```

////////////////////////////////////
DATA ELEMENT:IUD (BEFORE THIS VISIT)                                CODE:A039

```

```

*****
*STATE*FORM NO. * FORMAT *WHEN ENTERED *          COMMENTS          *
*****
*ALA./NCHS      *CODE 2  *EVERY VISIT  *CONTRACEPTIVE HISTORY C, WHAT *
*FLA. *          *          *          *IS THE LAST METHOD USED?      *
*GA.  *DPH/HIS  *SENSE   *EVERY VISIT  *IF OLD PATIENT, MARK CLINIC *
*      *(7)-55  *MARK    *          *METHOD FROM MASTER FILE     *
*KY.  *MCH=280  *1 DIGIT *EACH VISIT   *LAST METHOD OF CONTRACEPTION *
*      *          *CODE 2  *          *
*MISS.* 208     *CODE 1  *NEW ADMISSION *FAMILY PLANNING METHOD MOST *
*      *          *          *OR RE=      *USED IN LAST TWO YEARS      *
*      *          *          *ADMISSION   *
*N.C. * 1457    *2 DIGITS *NEW ADMISSION *
*      *          *CODES 0- *OR RE=      *
*      *          *2          *ADMISSION   *
*S.C. *DHEC 1618 *SENSE   *AS        *PREVIOUS CONTRACEPTION METHOD *
*      *          *MARK 1  *APPROPRIATE *
*      *          *DIGIT   *          *
*TENN.*FHS 817  *CODE 1  *NEW ADMISSION *FAMILY PLANNING METHOD MOST *
*      *          *          *OR          *USED IN LAST 2 YEARS      *
*      *          *          *READMISSION *
*      *          *          *ONLY       *
*PRDP=* N/A     *CODE 01 *AS        *LAST METHOD USFD *
*TENN *          *          *APPROPRIATE *

```

```

////////////////////////////////////
DATA ELEMENT:PILLS (BEFORE THIS VISIT)                                CODE:A040

```

```

*STATE*FORM NO. * FORMAT *WHEN ENTERED *          COMMENTS *
*****
*ALA./*NCHS      *CODE 1 *EVERY VISIT *CONTRACEPTIVE HISTORY C. WHAT *
*FLA.*          *      *      *      *IS LAST METHOD USED? ORAL *
*GA.  *DPH/HIS  *SENSE  *EVERY VISIT *IF OLD PATIENT, MARK CLINIC *
*      *(7)-55   *MARK   *      *      *METHOD FROM MASTER FILE *
*KY.  *MCH=280  *1 DIGIT *EACH VISIT *LAST METHOD OF CONTRACEPTION *
*      *      *CODE 2 *      *      *
*MISS.* 208     *CODE 2 *NEW ADMISSION *FAMILY PLANNING METHOD USED IN *
*      *      *      *OR RE= *LAST TWO YEARS *
*      *      *      *ADMISSION *
*N.C. * 1457    *CODE 01 *NEW ADMISSION *WHAT IS THE LAST METHOD YOU *
*      *      *      *OR RE= *USED? = ORAL *
*      *      *      *ADMISSION *
*S.C. *DHEC 1618 *SENSE  *AS      *OKAL PREVIOUS CONTRACEPTIVE *
*      *      *MARK 1 *APPROPRIATE *METHOD *
*      *      *DIGIT *      *      *
*TENN.*FHS 817  *CODE 2 *NEW ADMISSION *FAMILY PLANNING METHOD MUST *
*      *      *      *OR *USED IN LAST 2 YEARS *
*      *      *      *READMISSION *
*PROP-* N/A     *CODE 02 *EVERY VISIT *LAST METHOD USED *
*TENN *      *      *      *

```

```

////////////////////////////////////
DATA ELEMENT:INJECTION (BEFORE THIS VISIT)          CODE:A041

```

```

*****
*STATE*FORM NO. * FORMAT *WHEN ENTERED *          COMMENTS *
*****
*ALA./*NCHS      *CODE 7 *      *      *CONTRACEPTIVE HISTORY C. WHAT *
*FLA.*          *      *      *      *IS THE LAST METHOD USED? *
*GA.  *DPH/HIS  *SENSE  *EVERY VISIT *IF OLD PATIENT, MARK CLINIC *
*      *(7)-55   *MARK   *      *      *METHOD FROM MASTER FILE *
*KY.  *MCH=280  *1 DIGIT *EACH VISIT *LAST METHOD OF CONTRACEPTION *
*      *      *CODE 7 *      *      *
*MISS.* 208     *CODE 6 *NEW ADMISSION *FAMILY PLANNING METHOD MOST *
*      *      *      *OR RE= *USED IN LAST TWO YEARS *
*      *      *      *ADMISSION *
*N.C. * 1457    *CODE 07 *NEW ADMISSION *WHAT IS THE LAST METHOD YOU *
*      *      *      *OR RE= *USED? *
*      *      *      *ADMISSION *
*S.C. *DHEC 1618 *SENSE  *AS      *PREVIOUS CONTRACEPTIVE METHOD *
*      *      *MARK 1 *APPROPRIATE *      *
*      *      *DIGIT *      *      *
*TENN.*FHS 817  *      *      *      *DUES NOT COLLECT THIS DATA ITEM *
*      *      *      *      *A OR B? *
*PROP-* N/A     *CODE 07 *EACH VISIT *LAST METHOD USED *
*TENN *      *      *      *

```

```

////////////////////////////////////
DATA ELEMENT:FUAM(BEFORE THIS VISIT)          CODE:A042

```

```

*STATE*FORM NO. * FORMAT *WHEN ENTERED *          COMMENTS          *
*****
*ALA./NCHS      *CODE 4 *          *CONTRACEPTIVE HISTORY C, WHAT *
*FLA.*          *          *          *IS THE LAST METHOD USED?      *
*GA. *DPH/HIS   *SENSE  *EVERY VISIT *IF OLD PATIENT, MARK CLINIC *
*      *(7)-55   *MARK   *          *METHOD FROM MASTER FILE     *
*KY. *MCH-280   *1 DIGIT *EACH VISIT *LAST METHOD OF CONTRACEPTION *
*      *          *CODE   *          *                          *
*MISS.* 208     *CODE 3 *NEW ADMISSION *FAMILY PLANNING METHOD MOST *
*      *          *          *OR          *USED IN LAST TWO YEARS     *
*      *          *          *READMISSION *                          *
*N.C. * 1457    *CODE 04 *NEW ADMISSION *WHAT IS THE LAST METHOD YOU *
*      *          *          *OR          *USED?                       *
*      *          *          *READMISSION *                          *
*S.C. *DHEC 1618 *SENSE  *AS          *PREVIOUS CONTRACEPTIVE METHOD *
*      *          *MARK 1 *APPROPRIATE *                          *
*      *          *DIGIT *          *                          *
*TENN.*FHS 817  *CODE 3 *NEW ADMISSION *FAMILY PLANNING METHOD USED *
*      *          *          *OR          *MUST IN LAST 2 YEARS      *
*      *          *          *READMISSION *                          *
*PROP-* N/A     *CODE 03 *EVERY VISIT *LAST METHOD USED          *
*TENN *          *          *          *                          *

```

```

////////////////////////////////////
DATA ELEMENT: CUNDOM (BEFORE THIS VISIT)          CODE: A043

```

```

*****
*STATE*FORM NO. * FORMAT *WHEN ENTERED *          COMMENTS          *
*****
*ALA./NCHS      *CODE 6 *          *CONTRACEPTIVE HISTORY C, WHAT *
*FLA.*          *          *          *IS THE LAST METHOD USED?      *
*GA. *DPH/HIS   *SENSE  *EVERY VISIT *IF OLD PATIENT, MARK CLINIC *
*      *(7)-55   *MARK   *          *METHOD FROM MASTER FILE     *
*KY. *MCH-280   *1 DIGIT *EVERY VISIT *LAST METHOD OF CONTRACEPTION *
*      *          *CODE 6 *          *                          *
*MISS.* 208     *CODE 5 *NEW ADMISSION *FAMILY PLANNING METHOD MOST *
*      *          *          *OR          *USED IN LAST TWO YEARS     *
*      *          *          *READMISSION *                          *
*N.C. * 1457    *CODE 06 *NEW ADMISSION *WHAT IS THE LAST METHOD YOU *
*      *          *          *OR          *USED?                       *
*      *          *          *READMISSION *                          *
*S.C. *DHEC 1618 *SENSE  *AS          *PREVIOUS CONTRACEPTIVE METHOD *
*      *          *MARK 1 *APPROPRIATE *                          *
*      *          *DIGIT *          *                          *
*TENN.*FHS 817  *CODE 5 *NEW ADMISSION *FAMILY PLANNING METHOD USED IN *
*      *          *          *OR RE=    *LAST 2 YEARS              *
*      *          *          *ADMISSION *                          *
*PROP-* N/A     *CODE 05 *EVERY VISIT *LAST METHOD USED          *
*TENN *          *          *          *                          *

```

```

////////////////////////////////////
DATA ELEMENT: DIAPHRAGM (BEFORE THIS VISIT)      CODE: A044

```

```

*****
*STATE*FORM NO. * FORMAT *WHEN ENTERED *          COMMENTS          *
*****
*ALA./*NCHS      *CODE 3  *          *CONTRACEPTIVE HISTORY C, WHAT *
*FLA. *          *          *          *IS THE LAST METHOD USED?     *
*GA.  *DPH/HIS   *SENSE   *EVERY VISIT *IF OLD PATIENT, MARK CLINIC *
*      *(7)-55    *MARK    *          *METHOD FROM MASTER FILE     *
*KY.  *MCH=280   *1 DIGIT *EACH VISIT *LAST METHOD OF CONTRACEPTION *
*      *          *CODE 3  *          *                               *
*MISS.* 208      *CODE 4  *NEW ADMISSION *FAMILY PLANNING METHOD MOST *
*      *          *          *OR          *USED IN LAST TWO YEARS     *
*      *          *          *READMISSION *                               *
*N.C. * 1457     *CODE 03 *NEW ADMISSION *WHAT IS THE LAST METHOD YOU *
*      *          *          *OR          *USED?                          *
*      *          *          *READMISSION *                               *
*S.C. *DHEC 1618 *SENSE   *AS       *PREVIOUS CONTRACEPTIVE METHOD *
*      *          *MARK 1  *APPROPRIATE *                               *
*      *          *DIGIT   *          *                               *
*TENN.*FHS 817  *CODE 4  *          *FAMILY PLANNING METHOD MOST *
*      *          *          *          *USED IN LAST 2 YEARS       *
*PROP=* N/A     *CODE 04 *EVERY VISIT *LAST METHOD USED              *
*TENN *          *          *          *                               *

```

```

////////////////////////////////////
DATA ELEMENT:STERILIZATION (BEFORE THIS VISIT)          CODE:A045

```

```

*****
*STATE*FORM NO. * FORMAT *WHEN ENTERED *          COMMENTS          *
*****
*ALA./*NCHS      *          *          *DUEFS NOT COLLECT THIS DATA ITEM*
*FLA. *          *          *          *                               *
*GA.  *DPH/HIS   *SENSE   *EVERY VISIT *IF OLD PATIENT, MARK CLINIC *
*      *(7)-55    *MARK    *          *METHOD FROM MASTER FILE     *
*KY.  *MCH=280   *          *          *DUES NOT COLLECT THIS DATA ITEM*
*MISS.* 208      *CODE A.V *NEW ADMISSION *FAMILY PLANNING METHOD MOST *
*      *          *VASECTOM *OR          *USED IN LAST 2 YEARS     *
*      *          * & 7.    *READMISSION *                               *
*      *          *TUBAL   *          *                               *
*      *          *LIGATION*          *                               *
*N.C. * 1457     *CODE 08 *NEW ADMISSION *WHAT IS THE LAST METHOD YOU *
*      *          *          *OR          *USED?                          *
*      *          *          *READMISSION *                               *
*S.C. *DHEC 1618 *SENSE   *AS       *PREVIOUS CONTRACEPTIVE METHOD *
*      *          *MARK 1  *APPROPRIATE *                               *
*      *          *DIGIT   *          *                               *
*TENN.*FHS 817  *          *          *DUEFS NOT COLLECT THIS DATA ITEM*
*      *          *          *          *A OR B?                          *
*PROP=* N/A     *          *          *          *                               *
*TENN *          *          *          *          *                               *

```

```

////////////////////////////////////
DATA ELEMENT:RHYTHM (BEFORE THIS VISIT)          CODE:A046

```

```

*****
*ALA./*NCHS      *CODE 4 *          *A. MEDICAL SERVICES      *
*FLA. *          *          *          *          *
*GA.  *DPH/HIS  *SENSE  *EVERY VISIT *SERVICE(S) PROVIDED SECTION *
*      *(7)-55  *MARK   *          *MEDICAL/NURSING SUBSECTION  *
*KY.  *MCH=280  *1 DIGIT *EACH VISIT  *MEDICAL SERVICES (11 POSSIBLE*
*      *          *          *          *DIGITS)
*MISS,* 208     *CODE 2 *EACH VISIT  *MEDICAL SERVICES - URINE/B.P. *
*N.C. * 1458    *CODE 1 *EACH VISIT  *          *
*      *          *DIGIT - *          *
*      *          *0,NO, 1.*          *
*      *          *YES      *          *
*S.C. *DHEC 1618*SENSE  *EACH VISIT  *EXAM          *
*      *          *MARK 1 *          *
*      *          *DIGIT  *          *
*TENN.*FHS 817  *          *          *DUPS NOT COLLECT THIS DATA ITEM*
*PROP=* N/A     *NONE   *AS          *MEDICAL SERVICES      *
*TENN *          *          *APPROPRIATE *          *

```

```

////////////////////////////////////
DATA ELEMENT: BREAST                                     CODE: A068

```

```

*****
*STATE*FORM NO. * FORMAT *WHEN ENTERED *          COMMENTS          *
*****
*ALA./*NCHS      *CODE 3 *          *MEDICAL SERVICES BREAST EXAM *
*FLA. *          *          *          *          *
*GA.  *DPH/HIS  *SENSE  *EVERY VISIT *SERVICE(S) PROVIDED SECTION *
*      *(7)-55  *MARK   *          *MEDICAL/NURSING SUBSECTION  *
*KY.  *MCH=280  *1 DIGIT *EACH VISIT  *MEDICAL SERVICES (11 POSSIBLE*
*      *          *          *          *DIGITS)
*MISS,* 208     *CODES: 1 *EACH VISIT  *MEDICAL SERVICES          *
*      *          *YES, 2.*          *
*      *          *NO      *          *
*N.C. * 1457    *CODES 0-*EACH VISIT  *BREAST EXAM = 0.NO., 1.M.D., 2.*
*      *          *3 - 1 *          *NURSE, 3.OTHER
*      *          *DIGIT  *          *
*S.C. *DHEC 1618*SENSE  *EACH VISIT  *EXAM          *
*      *          *MARK 1 *          *
*      *          *DIGIT  *          *
*TENN.*FHS 817  *CODES 1.*EVERY VISIT  *BREAST EXAM          *
*      *          *YES 2.NO*          *
*PROP=* N/A     *NONE   *AS          *MEDICAL SERVICES      *
*TENN *          *          *APPROPRIATE *          *

```

```

////////////////////////////////////
DATA ELEMENT: PAP SMEAR                                     CODE: A069

```

```

*****
*STATE*FORM NO. * FORMAT *WHEN ENTERED *          COMMENTS          *
*****

```

```

////////////////////////////////////
DATA ELEMENT: MEDICAL REASON (REASON FOR STOPPING METHOD)          CODE: A065
*****
*STATE*FORM NO. * FORMAT *WHEN ENTERED *          COMMENTS          *
*****
*ALA./*NCHS      *CODE 2 *          *          *
*FLA.*          *          *          *          *
*GA.   *DPH/HIS  *SENSE   *EVERY VISIT *AFTER THIS VISIT SECTION *
*      *(7)=55  *MARK    *AND (IF NONE *          *
*      *        *        *OR METHOD    *          *
*      *        *        *CHANGED)   *          *
*KY.   *MCH=280 *1 DIGIT *EACH VISIT *IF NO METHOD, THE REASON IS ...*
*      *        *CODE 2 *          *          *
*MISS.* 208     *        *          *DUES NOT COLLECT THIS DATA ITEM*
*N.C.  * 1458   *CODE 2 *EACH VISIT *IF NONE, GIVE REASON          *
*S.C.  *DHEC 1618*        *          *DUES NOT COLLECT THIS DATA ITEM*
*TENN.*FHS 817 *        *          *DUES NOT COLLECT THIS DATA ITEM*
*PROP-* N/A    *        *          *DUES NOT COLLECT THIS DATA ITEM*
*TENN.*        *        *          *          *

```

```

////////////////////////////////////
DATA ELEMENT: OTHER (REASON FOR NONE OR METHOD CHANGE)          CODE: A066
*****
*STATE*FORM NO. * FORMAT *WHEN ENTERED *          COMMENTS          *
*****
*ALA./*NCHS      *CODE 4 *          *          *
*FLA.*          *          *          *          *
*GA.   *DPH/HIS  *SENSE   *EVERY VISIT *AFTER THIS VISIT SECTION *
*      *(7)=55  *MARK    *AND (IF NONE *          *
*      *        *        *OR METHOD    *          *
*      *        *        *CHANGED)   *          *
*KY.   *MCH=280 *1 DIGIT *EACH VISIT *IF NO METHOD, THE REASON IS ...*
*      *        *CODE 4 *          *          *
*MISS.* 208     *        *          *DUES NOT COLLECT THIS DATA ITEM*
*N.C.  * 1458   *CODE 4 *EACH VISIT *IF NONE, GIVE REASON          *
*S.C.  *DHEC 1618*        *          *DUES NOT COLLECT THIS DATA ITEM*
*TENN.*FHS 817 *        *          *DUES NOT COLLECT THIS DATA ITEM*
*PROP-* N/A    *        *          *DUES NOT COLLECT THIS DATA ITEM*
*TENN.*        *        *          *          *

```

```

////////////////////////////////////
DATA ELEMENT: BLOOD PRESSURE          CODE: A067
*****
*STATE*FORM NO. * FORMAT *WHEN ENTERED *          COMMENTS          *
*****

```

```

////////////////////////////////////
DATA ELEMENT: PREGNANT-UNPLANNED (REASON FOR STOPPING METHOD)  CODE: A063
*****
*STATE*FORM NO. * FORMAT *WHEN ENTERED *          COMMENTS          *
*****
*ALA./*NCHS      *      *      *NO DISTINCTION BETWEEN PLANNED *
*FLA.*          *      *      *AND UNPLANNED                *
*GA.*DPH/HIS    *SENSE *EVERY VISIT *AFTER THS VISIT SECTION *
*(7)-55        *MARK  *AND (IF NONE *
*              *      *OR METHOD   *
*              *      *CHANGE)    *
*KY.*MCH=280    *1 DIGIT *      *NO DISTINCTION BETWEEN PLANNED *
*              *CODE 1  *      *AND UNPLANNED                *
*MISS.* 206     *      *      *DUES NOT COLLECT THIS DATA ITEM*
*N.C.* 1458     *CODE 1  *EACH VISIT *IF NONE, GIVE REASON, NO *
*              *      *      *DISTINCTION BETWEEN PLANNED AND *
*              *      *      *UNPLANNED.                   *
*S.C.*DHEC 1618*SENSE *WHEN      *REASON FOR DISCHARGE PREG. *
*              *MARK 1 *DISCHRGD *METHOD FAILURE ALSO PREG. OTHER*
*              *DIGIT *      *FAILURE                       *
*TENN.*FHS 817  *      *      *DUES NOT COLLECT THIS DATA ITEM*
*PROP-* N/A     *      *      *DUES NOT COLLECT THIS DATA ITEM*
*TENN.*          *      *      *

```

```

////////////////////////////////////
DATA ELEMENT: SEEKING PREGNANCY (REASON FOR STOPPING METHOD)  CODE: A064
*****
*STATE*FORM NO. * FORMAT *WHEN ENTERED *          COMMENTS          *
*****
*ALA./*NCHS      *CODE 3 *      *IF NONE, GIVE REASON        *
*FLA.*          *      *      *
*GA.*DPH/HIS    *SENSE *EVERY VISIT *AFTER THIS VISIT SECTION *
*(7)-55        *MARK  *AND (IF NONE *
*              *      *OR METHOD   *
*              *      *CHANGE)    *
*KY.*MCH=280    *1 DIGIT *EACH VISIT *IF NO METHOD, THE REASON IS ...*
*              *CODE 3  *      *
*MISS.* 206     *      *      *DUES NOT COLLECT THIS DATA ITEM*
*N.C.* 1458     *CODE 3  *EACH VISIT *IF NONE, GIVE REASON        *
*S.C.*DHEC 1618*SENSE *WHEN      *RASON FOR DISCHARGE PREG. *
*              *MARK 1 *DISCHRGD *DESIRED                     *
*              *DIGIT *      *
*TENN.*FHS 817  *      *      *DUES NOT COLLECT THIS DATA ITEM*
*PROP-* N/A     *CODE 02 *EACH VISIT *RASON NO NEXT VISIT: DESIRES *
*TENN.*          *      *      *PREGNANCY                    *

```

```

*      *      *MARK 1 *APPROPRIATE *      *
*      *      *DIGIT *      *      *
*TENN.*FHS 817 *CODE 08 *EVERY VISIT *METHOD OF CONTRACEPTION UNTIL *
*      *      *      *      *      *NEXT VISIT *
*PROP=* N/A *      *      *      *DUES NOT COLLECT THIS DATA ITEM*
*TENN *      *      *      *

```

```

////////////////////////////////////
DATA ELEMENT: NONE (AFTER THIS VISIT) CODE: A061

```

```

*****
*STATE*FORM NO. * FORMAT *WHEN ENTERED *      COMMENTS *
*****
*ALA./*NCHS *CODE 0 *      *CONTRACEPTION METHOD AT THE END*
*FLA.* *      *      *      *OF THIS VISIT *
*GA. *DPH/HIS *SENSE *EVERY VISIT *      *
* * * (7)-55 *MARK *      *      *
*KY. *MCH=280 *1 DIGIT *EACH VISIT *CONTRACEPTION METHOD AT THE END*
* * * *CODE 0 *      *      *OF THIS VISIT ONLY ONE *
*MISS.* 208 *CODE 0 *EACH VISIT *PRIMARY METHOD OF CONTRACEPTION*
* * * *      *      *      *UNTIL NEXT VISIT *
*N.C. * 1457 *CODE 00 *EACH VISIT *CONTRACEPTIVE METHOD TO BE USED*
* * * *      *      *      *UNTIL NEXT VISIT *
*S.C. *DHEC 1618* *      *      *DUES NOT COLLECT THIS DATA ITEM*
*TENN.*FHS 817 *2 CHAR *      *      *00 *
*PROP=* N/A *      *      *      *DUES NOT COLLECT THIS DATA ITEM*
*TENN *      *      *      *

```

```

////////////////////////////////////
DATA ELEMENT: PREGNANT-PLANNED (REASON FOR STOPPING METHOD) CODE: A062

```

```

*****
*STATE*FORM NO. * FORMAT *WHEN ENTERED *      COMMENTS *
*****
*ALA./*NCHS *      *      *      *NO DISTINCTION BETWEEN PLANNED *
*FLA.* *      *      *      *AND UNPLANNED *
*GA. *DPH/HIS *SENSE *EVERY VISIT *AFTER THIS VISIT SECTION *
* * * (7)-55 *MARK *      *AND (NONE OR *
* * * *      *      *      *METHOD CHANGE*
* * * *      *      *      *
*KY. *MCH=280 *1 DIGIT *EACH VISIT *NO DISTINCTION BETWEEN PLANNED *
* * * *CODE 1 *      *      *OR UNPLANNED *
*MISS.* 208 *      *      *      *DUES NOT COLLECT THIS DATA ITEM*
*N.C. * 1457 *CODE 1 *EACH VISIT *IF NONE, GIVE REASON NO *
* * * *      *      *      *DISTINCTION *
*S.C. *DHEC 1618* *      *      *DUES NOT COLLECT THIS DATA ITEM*
*TENN.*FHS 817 *      *      *      *DUES NOT COLLECT THIS DATA ITEM*
*PROP=* N/A *      *      *      *DUES NOT COLLECT THIS DATA ITEM*
*TENN *      *      *      *

```



```

*N.C. * 1457 * CODE 06 * EACH VISIT * CONTRACEPTIVE METHOD TO BE USED *
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
*S.C. * DHEC 1618 * SENSE * AS * INTERIM CONTRACEPTION METHOD *
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
*TENN. * FHS 817 * CODE 30 * EVERY VISIT * METHOD OF CONTRACEPTION UNTIL *
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
*PROP- * N/A * * * * DUES NOT COLLECT THIS DATA ITEM *
*TENN * * * * * * * * * * * * * * * * * * * * * * * *

```

```

//////////////////////////////////////
DATA ELEMENT: RHYTHM (AFTER THIS VISIT)                                CODE: A059

```

```

*****
*STATE*FORM NO. * FORMAT *WHEN ENTERED *          COMMENTS          *
*****
*ALA./*NCHS * CODE 5 * * * * CONTRACEPTION METHOD AT THE END *
*FLA. * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
*GA. *DPH/HIS * SENSE * EVERY VISIT * * * * * * * * * * * * * * * * * * * * * * * *
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
*KY. *MCH=280 * 1 DIGIT * EACH VISIT * CONTRACEPTION METHOD AT THE END *
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
*MISS. * 208 * * * * * DUES NOT COLLECT THIS DATA ITEM *
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
*N.C. * 1457 * CODE 05 * EACH VISIT * CONTRACEPTIVE METHOD TO BE USED *
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
*S.C. * DHEC 1618 * SENSE * AS * INTERIM CONTRACEPTION METHOD *
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
*TENN. * FHS 817 * * * * * DUES NOT COLLECT THIS DATA ITEM *
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
*PROP- * N/A * * * * * DUES NOT COLLECT THIS DATA ITEM *
*TENN * * * * * * * * * * * * * * * * * * * * * * * *

```

```

//////////////////////////////////////
DATA ELEMENT: OTHER METHOD (AFTER THIS VISIT)                            CODE: A060

```

```

*****
*STATE*FORM NO. * FORMAT *WHEN ENTERED *          COMMENTS          *
*****
*ALA./*NCHS * CODE 9 * * * * CONTRACEPTION METHOD AT THE END *
*FLA. * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
*GA. *DPH/HIS * SENSE * EVERY VISIT * * * * * * * * * * * * * * * * * * * * * * * *
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
*KY. *MCH=280 * 1 DIGIT * EACH VISIT * CONTRACEPTION METHOD AT THE END *
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
*MISS. * 208 * CODE 08 * EACH VISIT * PRIMARY METHOD OF CONTRACEPTION *
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
*N.C. * 1457 * CODE 10 * EACH VISIT * CONTRACEPTIVE METHOD TO BE USED *
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
*S.C. * DHEC 1618 * SENSE * AS * INTERIM CONTRACEPTION METHOD *

```

```

*      *      *      *      *UNTIL NEXT VISIT      *
*N.C. * 1457 *CODE 06 *EACH VISIT *CONTRACEPTIVE METHOD TO BE USED*
*      *      *      *      *UNTIL NEXT VISIT      *
*S.C. *DHEC 1618*SENSE *AS *INTERIM CONTRACEPTION METHOD *
*      *      *MARK 1 *APPROPRIATE *      *
*      *      *DIGIT *      *      *
*TENN.*FHS 817 *CODE 05 *EVERY VISIT *METHOD OF CONTRACEPTION UNTIL *
*      *      *      *      *NEXT VISIT      *
*PROP=* N/A *      *      *DUFS NOT COLLECT THIS DATA ITEM*
*TENN *      *      *      *

```

```

////////////////////////////////////
DATA ELEMENT:DIAPHRAGM (AFTER THIS VISIT) CODE:A057

```

```

*****
*STATE*FORM NO. * FORMAT *WHEN ENTERED * COMMENTS *
*****
*ALA./*NCHS *CODE 3 * *CONTRACEPTIVE METHOD AT THE END*
*FLA.* * * *OF THIS VISIT *
*GA. *DPH/HIS *SENSE *EVERY VISIT * *
* * *(7)-55 *MARK * * *
*KY. *MCH=280 *1 DIGIT *EACH VISIT *CONTRACEPTION METHOD AT THE END*
* * * *CODE 3 * *OF THIS VISIT ONLY ONE *
*MISS.* 208 *CODE 4 *EACH VISIT *PRIMARY METHOD OF CONTRACEPTION*
* * * * *UNTIL NEXT VISIT *
*N.C. * 1457 *CODE 03 *EACH VISIT *CONTRACEPTIVE METHOD TO BE USED*
* * * * *UNTIL NEXT VISIT *
*S.C. *DHEC 1618*SENSE *AS *INTERIM CONTRACEPTION METHOD *
* * * *MARK 1 *APPROPRIATE * *
* * * *DIGIT * * *
*TENN.*FHS 817 *CODE 04 *EVERY VISIT *METHOD OF CONTRACEPTION UNTIL *
* * * * *NEXT VISIT *
*PROP=* N/A * * * *DUFS NOT COLLECT THIS DATA ITEM*
*TENN * * * * *

```

```

////////////////////////////////////
DATA ELEMENT:STERILIZATION (AFTER THIS VISIT) CODE:A058

```

```

*****
*STATE*FORM NO. * FORMAT *WHEN ENTERED * COMMENTS *
*****
*ALA./*NCHS *CODE 8 * *CONTRACEPTION METHOD AT THE END*
*FLA.* * * *OF THIS VISIT *
*GA. *DPH/HIS *SENSE *EVERY VISIT * *
* * *(7)-55 *MARK * * *
*KY. *MCH=280 *1 DIGIT *EACH VISIT *CONTRACEPTION METHOD AT THE END*
* * * *CODE 8 * *OF THIS VISIT ONLY ONE *
*MISS.* 208 *CODES A.*EACH VISIT *PRIMARY METHOD OF CONTRACEPTION*
* * * *ASECTOMY* *UNTIL NEXT VISIT *
* * * * * * *
* * * *LIGATION* *

```

```

*KY. *MCH=280 *1 Digit *EACH VISIT *CONTRACEPTION METHOD AT THE END*
* * * *CODE 7 * *OF THIS VISIT *
*MISS.* 208 *CODE 6 *EACH VISIT *PRIMARY METHOD OF CONTRACEPTION*
* * * * * * * *UNTIL NEXT VISIT *
*N.C. * 1456 *CODE 07 *EACH VISIT *CONTRACEPTIVE METHOD TO BE USED*
* * * * * * * *UNTIL NEXT VISIT *
*S.C. *DHEC 1618 *SENSE *AS *INTERIM CONTRACEPTION METHOD *
* * * *MARK 1 *APPROPRIATE * *
* * * *DIGIT * * *
*TENN.*FHS 817 * * * *DUES NOT COLLECT THIS DATA ITEM*
*PROP=* N/A * * * *DUES NOT COLLECT THIS DATA ITEM*
*TENN * * * * *

```

```

////////////////////////////////////
DATA ELEMENT:FUAM (AFTER THIS VISIT) CODE:A055

```

```

*****
*STATE*FORM NO. * FORMAT *WHEN ENTERED * COMMENTS *
*****
*ALA./*NCHS *CODE 4 * *CONTRACEPTION METHOD AT THE END*
*FLA.* * * * *OF THIS VISIT *
*GA. *DPH/HIS *SENSE *EVERY VISIT *
* * * *MARK * *
* * * *(7)=55 * *
*KY. *MCH=280 *1 Digit *EACH VISIT *CONTRACEPTION METHOD AT THE END*
* * * *CODE 4 * *OF THIS VISIT ONLY ONE *
*MISS.* 208 *CODE 3 *EACH VISIT *PRIMARY METHOD OF CONTRACEPTION*
* * * * * * * *UNTIL NEXT VISIT *
*N.C. * 1456 *CODE 04 *EACH VISIT *CONTRACEPTIVE METHOD TO BE USED*
* * * * * * * *UNTIL NEXT VISIT *
*S.C. *DHEC 1618 *SENSE *AS *INTERIM CONTRACEPTION METHOD *
* * * *MARK 1 *APPROPRIATE * *
* * * *DIGIT * * *
*TENN.*FHS 817 *CODE 03 *EVERY VISIT *METHOD OF CONTRACEPTION UNTIL *
* * * * * * * *NEXT VISIT *
*PROP=* N/A * * * *DUES NOT COLLECT THIS DATA ITEM*
*TENN * * * * *

```

```

////////////////////////////////////
DATA ELEMENT:CUNDDM (AFTER THIS VISIT) CODE:A056

```

```

*****
*STATE*FORM NO. * FORMAT *WHEN ENTERED * COMMENTS *
*****
*ALA./*NCHS *CODE 6 * *CONTRACEPTION METHOD AT THE END*
*FLA.* * * * *OF THIS VISIT *
*GA. *DPH/HIS *SENSE *EVERY VISIT *
* * * *MARK * *
* * * *(7)=55 * *
*KY. *MCH=280 *1 Digit *EACH VISIT *CONTRACEPTION METHOD AT THE END*
* * * *CODE 6 * *OF THIS VISIT ONLY ONE *
*MISS.* 208 *CODE 5 *EACH VISIT *PRIMARY METHOD OF CONTRACEPTION*

```

```

*KY. *MCH=280 *1 DIGIT *EACH VISIT *CONTRACEPTION METHOD AT THE END*
* * * *CODE 2 * *OF THIS VISIT ONLY ONE *
*MISS.* 208 *CODE 1 *EACH VISIT *PRIMARY METHOD OF CONTRACEPTION*
* * * * * *UNTIL NEXT VISIT *
*N.C. * 1458 *CODE 02 *EACH VISIT *CONTRACEPTIVE METHOD TO BE USED*
* * * * * *UNTIL NEXT VISIT *
*S.C. *DHEC 1618 *SENSE *AS *INTERIM CONTRACEPTION METHOD *
* * * *MARK 1 *APPROPRIATE * *
* * * *DIGIT * * *
*TENN.*FHS 817 *CODE 01 *EVERY VISIT *METHOD OF CONTRACEPTION UNTIL *
* * * * * *NEXT VISIT *
*PROP=* N/A * * * *DUES NOT COLLECT THIS DATA ITEM*
*TENN * * * * *

```

```

////////////////////////////////////
DATA ELEMENT: PILLS (AFTER THIS VISIT) CODE: A053

```

```

*****
*STATE*FORM NO. * FORMAT *WHEN ENTERED * COMMENTS *
*****

```

```

*ALA./*NCHS *CODE 1 * *ORAL CONTRACEPTIVE METHOD AT *
*FLA. * * * *THE END OF THIS VISIT *
*GA. *DPH/HIS *SENSE *EVERY VISIT *FORMAT IS 2 CHAR FOR # CYCLES *
* * *(7)=55 *MARK AND * *DISPENSED *
* * * * * * *
* * * *COMMENTS * *
* * * * * *
*KY. *MCH=280 *1 DIGIT *EACH VISIT *CONTRACEPTION METHOD AT THE END*
* * * *CODE 1 * *OF THIS VISIT ONLY ONE *
*MISS.* 208 *CODE 2 *EACH VISIT *PRIMARY METHOD OF CONTRACEPTION*
* * * * * *UNTIL NEXT VISIT *
*N.C. * 1458 *CODE 01 *EACH VISIT *CONTRACEPTIVE METHOD TO BE USED*
* * * * * *UNTIL NEXT VISIT (ORAL) *
*S.C. *DHEC 1618 *SENSE *AS *INTERIM CONTRACEPTION METHOD *
* * * *MARK 1 *APPROPRIATE * *
* * * *DIGIT * * *
*TENN.*FHS 817 *CODE 02 *EVERY VISIT *METHOD OF CONTRACEPTION UNTIL *
* * * * * *NEXT VISIT *
*PROP=* N/A * * * *DUES NOT COLLECT THIS DATA ITEM*
*TENN * * * * *

```

```

////////////////////////////////////
DATA ELEMENT: INJECTION (AFTER THIS VISIT) CODE: A054

```

```

*****
*STATE*FORM NO. * FORMAT *WHEN ENTERED * COMMENTS *
*****

```

```

*ALA./*NCHS *CODE 7 * *CONTRACEPTION METHOD AT THE END*
*FLA. * * * *OF THIS VISIT *
*GA. *DPH/HIS *SENSE *EVERY VISIT *
* * *(7)=55 *MARK * *

```

```

*GA. *DPH/HIS *SENSE *EVERY VISIT *WHO PRESCRIBED LATEST METHOD *
*(7)-55 *MARK * *USED? *
*KY. *MCH=280 *1 DIGIT *EACH VISIT *WHO PRESCRIBED OR DISPENSED *
* *CODE 1 * *LAST METHOD? *
*MISS.* 208 * * * *DUES NOT COLLECT THIS DATA ITEM*
*N.C. * 1457 *CODE 1 *NEW ADMISSION *WHO PRESCRIBED THAT METHOD? *
* * * *OR RE- * * *
* * * *ADMISSION * *
*S.C. *DHEC 1618 *SENSE *AS *PREVIOUS METHOD PRESCRIBED BY *
* * * *MARK 1 * *APPROPRIATE * *
* * * *DIGIT * * *
*TENN.*FHS 817 * * * *DUES NOT COLLECT THIS DATA ITEM*
*PROP-* N/A *CODE 1 *EACH VISIT *PRESCRIBED BY:CLINIC *
*TENN * * * *

```

```

////////////////////////////////////
DATA ELEMENT: DRUGGIST PRESCRIBED LATEST METHOD CODE: A051

```

```

*****
*STATE*FORM NO. * FORMAT *WHEN ENTERED * COMMENTS *
*****

```

```

*ALA./*NCHS *CODE 3 * *CONTRACEPTIVE HISTORY D. WHO *
*FLA. * * * *PRESCRIBED THAT METHOD? DRUG *
* * * *STORE *
*GA. *DPH/HIS *SENSE *EVERY VISIT *(DRUG STORE) WHO PRESCRIBED *
*(7)-55 *MARK * *LATEST METHOD? *
*KY. *MCH=280 *1 DIGIT *EACH VISIT *WHO PRESCRIBED OR DISPENSED *
* *CODE 3 * *LAST METHOD? *
*MISS.* 208 * * * *DUES NOT COLLECT THIS DATA ITEM*
*N.C. * 1457 *CODE 2 *NEW ADMISSION *WHO PRESCRIBED THAT METHOD? *
* * * *OR RE- * * *
* * * *ADMISSION * *
*S.C. *DHEC 1618 *SENSE *AS *PREVIOUS METHOD PRESCRIBED BY *
* * * *MARK 1 * *APPROPRIATE * *
* * * *DIGIT * * *
*TENN.*FHS 817 * * * *DUES NOT COLLECT THIS DATA ITEM*
*PROP-* N/A *CODE 3 *EACH VISIT *PRESCRIBED BY:DRUGSTORE *
*TENN * * * *

```

```

////////////////////////////////////
DATA ELEMENT: IUD (AFTER THIS VISIT) CODE: A052

```

```

*****
*STATE*FORM NO. * FORMAT *WHEN ENTERED * COMMENTS *
*****

```

```

*ALA./*NCHS *CODE 2 * *CONTRACEPTION METHOD AT THE END *
*FLA. * * * *OF THIS VISIT *
*GA. *DPH/HIS *SENSE *EVERY VISIT * *
*(7)-55 *MARK * * *

```

```

*STATE*FORM NO. * FORMAT *WHEN ENTERED *          COMMENTS *
*****
*ALA./*NCHS      *      *          *DUES NOT COLLECT THIS DATA ITEM*
*FLA.*          *      *          *
*GA.  *DPH/HIS  *SENSE  *EVERY VISIT *IF OLD PATIENT, MARK CLINIC *
*      *(7)-55   *MARK   *          *METHOD FROM MASTER FILE   *
*KY.  *MCH=280  *      *          *DUES NOT COLLECT THIS DATA ITEM*
*MISS.* 208     *CODE 9 *NEW ADMISSION*FAMILY PLANNING METHOD MOST *
*      *      *      *OR RE-      *USED IN LAST TWO YEARS   *
*      *      *      *ADMISSION  *
*N.C. * 1457    *      *          *DUES NOT COLLECT THIS DATA ITEM*
*S.C. *DHEC 1618*      *          *DUES NOT COLLECT THIS DATA ITEM*
*TENN.*FHS 817  *CODE 9 *NEW ADMISSION*FAMILY PLANNING METHOD MOST *
*      *      *      *OR          *USED IN LAST 2 YEARS   *
*      *      *      *READMISSION*
*PROP-* N/A     *      *          *DUES NOT COLLECT THIS DATA ITEM*
*TENN *          *      *          *

```

```

////////////////////////////////////
DATA ELEMENT:PRIVATE DOCTOR PRESCRIBED LATEST METHOD          CODE:A049

```

```

*****
*STATE*FORM NO. * FORMAT *WHEN ENTERED *          COMMENTS *
*****
*ALA./*NCHS      *CODE 2 *      *          *CONTRACEPTIVE HISTORY D. WHO *
*FLA.*          *      *      *          *PRESCRIBED THAT METHOD?      *
*GA.  *DPH/HIS  *SENSE  *EVERY VISIT *WHO PRESCRIBED LATEST METHOD *
*      *(7)-55   *MARK   *          *USED?                        *
*KY.  *MCH=280  *CODE 2 *EACH VISIT *WHO PRESCRIBED OR DISPENSED *
*      *      *DIGIT 1 *          *LAST METHOD?                *
*MISS.* 208     *      *          *DUES NOT COLLECT THIS DATA ITEM*
*N.C. * 1457    *CODE 3 *NEW ADMISSION*WHO PRESCRIBED THAT METHOD? *
*      *      *      *OR RE-      *                          *
*      *      *      *ADMISSION  *                          *
*S.C. *DHEC 1618*SENSE  *AS        *PREVIOUS METHOD PRESCRIBED BY *
*      *      *MARK 1 *APPROPRIATE *                          *
*      *      *DIGIT 1 *          *                          *
*TENN.*FHS 817  *      *          *DUES NOT COLLECT THAT DATA ITEM*
*PROP-* N/A     *CODE 2 *EACH VISIT *PRESCRIBED BY:PRIVATE DOCTOR *
*TENN *          *      *          *

```

```

////////////////////////////////////
DATA ELEMENT:PUBLIC CLINIC PRESCRIBED LATEST METHOD          CODE:A050

```

```

*****
*STATE*FORM NO. * FORMAT *WHEN ENTERED *          COMMENTS *
*****
*ALA./*NCHS      *CODE 1 *      *          *CONTRACEPTIVE HISTORY D. WHO *
*FLA.*          *      *      *          *PRESCRIBED THAT METHOD?      *

```

```

*****
*STATE*FORM NO. * FORMAT *WHEN ENTERED *          COMMENTS          *
*****
*ALA./*NCHS      *CODE 5 *          *CONTRACEPTIVE HISTORY C, WHAT *
*FLA. *          *          *          *IS THE LAST METHOD USED?      *
*GA.  *DPH/HIS   *SENSE   *EVERY VISIT *IF OLD PATIENT, MARK CLINIC *
*      *(7)-55   *MARK    *          *METHOD FROM MASTER FILE     *
*KY.  *MCH=280   *1 DIGIT *EACH VISIT *LAST METHOD OF CONTRACEPTION *
*      *          *CODE 5  *          *                              *
*MISS.* 208      *          *          *DUES NOT COLLECT THIS DATA ITEM*
*N.C. * 1457     *CODE 05 *NEW ADMISSION*WHAT IS THE LAST METHOD YOU *
*      *          *          *OR          *USED?                       *
*      *          *          *READMISSION*                    *
*S.C. *DHEC 1618 *SENSE   *AS          *PREVIOUS CONTRACEPTIVE METHOD *
*      *          *MARK 1  *APPROPRIATE *                              *
*      *          *DIGIT  *          *                              *
*TENN.*FHS 817   *          *          *DUES NOT COLLECT THIS DATA ITEM*
*      *          *          *          *A OR B?                     *
*PROP=* N/A     *CODE 05 *EVERY VISIT *LAST METHOD USED          *
*TENN *          *          *          *                              *

```

```

////////////////////////////////////
DATA ELEMENT:OTHER (BEFORE THIS VISIT)          CODE:A047

```

```

*****
*STATE*FORM NO. * FORMAT *WHEN ENTERED *          COMMENTS          *
*****
*ALA./*NCHS      *CODE 8 *          *CONTRACEPTIVE HISTORY C, WHAT *
*FLA. *          *          *          *IS THE LAST METHOD USED?      *
*GA.  *DPH/HIS   *SENSE   *EVERY VISIT *IF OLD PATIENT, MARK CLINIC *
*      *(7)-55   *MARK    *          *METHOD FROM MASTER FILE     *
*KY.  *MCH=280   *1 DIGIT *EACH VISIT *LAST METHOD OF CONTRACEPTION *
*      *          *CODE 8  *          *                              *
*MISS.* 208      *CODE 8  *NEW ADMISSION*FAMILY PLANNING METHOD MOST *
*      *          *          *OR RE=      *USED IN LAST TWO YEARS     *
*      *          *          *ADMISSION *                              *
*N.C. * 1457     *CODE 10 *NEW ADMISSION*WHAT IS THE LAST METHOD YOU *
*      *          *          *OR RE=      *USED?                       *
*      *          *          *ADMISSION *                              *
*S.C. *DHEC 1618 *SENSE   *AS          *PREVIOUS CONTRACEPTIVE METHOD *
*      *          *MARK 1  *APPROPRIATE *                              *
*      *          *DIGIT  *          *                              *
*TENN.*FHS 817   *CODE 8  *NEW ADMISSION*FAMILY PLANNING METHOD MOST *
*      *          *          *OR          *USED IN LAST 2 YEARS     *
*      *          *          *READMISSION*                    *
*PROP=* N/A     *CODE 08 *EVERY VISIT *LAST METHOD USED          *
*TENN *          *          *          *                              *

```

```

////////////////////////////////////
DATA ELEMENT:METHOD NOT KNOWN (BEFORE THIS VISIT)          CODE:A048

```

```

*ALA./*NCHS      *CODE 1 *      *MEDICAL SERVICES      *
*FLA. *          *      *      *
*GA.  *DPH/HIS   *SENSE  *EVERY VISIT *SERVICE(S) PROVIDED SECTION *
*      *(7)-55    *MARK   *      *      *MEDICAL/NURSING SUBSECTION *
*KY.  *MCH=280   *1 DIGIT *EACH VISIT *MEDICAL SERVICES (11 POSSIBLE *
*      *          *      *      *      *DIGITS) *
*MISS.* 208     *CODE 2 *EACH VISIT *MEDICAL SERVICES: PELVIC/PAP *
*N.C. * 1458     *CODES: *EACH VISIT *PAPANICOLAOU SMEAR: 0,NO, 1,M.D *
*      *          *0-3 1 *      *      *., 2.NURSE, 3.OTHER *
*      *          *DIGIT *      *      *
*S.C. *DHEC 1618 *SENSE  *EACH VISIT *LAB TESTS PAP *
*      *          *MARK 1 *      *      *
*      *          *DIGIT *      *      *
*TENN.*FHS 817  *CODES 1.*EVERY VISIT *
*      *          *YES 2.*      *      *
*      *          *NO   *      *      *
*PROP=* N/A     *NONE   *AS *MEDICAL SERVICES: PELVIC/PAP *
*TENN *          *      *APPROPRIATE *

```

////////////////////////////////////

DATA ELEMENT:G.C. CULTURE CODE:A070

*STATE*FORM NO. * FORMAT *WHEN ENTERED * COMMENTS *

```

*ALA./*NCHS      *      *      *DUES NOT COLLECT THIS DATA ITEM*
*FLA. *          *      *      *
*GA.  *DPH/HIS   *SENSE  *EVERY VISIT *SERVICE(S) PROVIDED SECTION, *
*      *(7)-55    *MARK   *      *      *MEDICAL/NURSING SUBSECTION *
*KY.  *MCH=280   *1 DIGIT *EACH VISIT *TESTING G.C. *
*MISS.* 208     *CODE 2 *EACH VISIT *MEDICAL SERVICES: SEROLOGY/GC, *
*      *          *      *      *      *OR GC *
*N.C. * 1458     *CODES 0-*EACH VISIT *GUNORRHEA TEST: 0.NO, 1.M.D., 2 *
*      *          *3   *      *      *.,NURSE, 3.OTHER *
*S.C. *DHEC 1618 *SENSE  *EACH VISIT *LAB TESTS G.C. *
*      *          *MARK 1 *      *      *
*      *          *DIGIT *      *      *
*TENN.*FHS 817  *      *      *DUES NOT COLLECT THIS DATA ITEM*
*PROP=* N/A     *NONE   *AS *MEDICAL SERVICES *
*TENN *          *      *APPROPRIATE *

```

////////////////////////////////////

DATA ELEMENT:PELVIC EXAMINATION CODE:A071

*STATE*FORM NO. * FORMAT *WHEN ENTERED * COMMENTS *

```

*ALA./*NCHS      *CODE 2 *      *MEDICAL SERVICES      *
*FLA. *          *      *      *

```



```

*GA.  *DPH/HIS  *SENSE  *EVERY VISIT  *SERVICE(S) PROVIDED SECTION  *
*      *(7)-55  *MARK    *          *          *MEDICAL/NURSING SUBSECTION  *
*KY.  *MCH-280  *1 DIGIT *EACH VISIT  *MEDICAL SERVICES  *
*MISS.* 208     *CODE 3  *EACH VISIT  *MEDICAL SERVICES: PELVIC/PAP,  *
*      *          *          *          *OR PELVIC  *
*N.C.  * 1458   * CODES 0 *EACH VISIT  *PELVIC EXAM: 0,NO, 1,M.O., 2,  *
*      *          * 3, 1  *          *NURSE, 3,OTHER  *
*      *          *DIGIT *          *          *
*S.C.  *DHEC 1618 *SENSE   *EACH VISIT  *EXAM PELVIC  *
*      *          *MARK 1  *          *          *
*      *          *DIGIT  *          *          *
*TENN.*FHS 817  *CODES 1.*EVERY VISIT  *PELVIC EXAM  *
*      *          *YES 2.  *          *          *
*      *          *NO    *          *          *
*PROP-* N/A     *NONE    *AS      *MEDICAL SERVICES  *
*TENN *          *          *APPROPRIATE *          *

```

```

////////////////////////////////////
DATA ELEMENT:URINALYSIS                                     CODE:A072

```

```

*****
*STATE*FORM NO. * FORMAT *WHEN ENTERED *          COMMENTS  *
*****
*ALA./*NCHS     * CODE 7  *          *MEDICAL SERVICES (N.E.S.)  *
*FLA.*          *          *          *          *
*GA.  *DPH/HIS  *SENSE   *EVERY VISIT  *SERVICE(S) PROVIDED SECTION  *
*      *(7)-55  *MARK    *          *          *MEDICAL/NURSING SUBSECTION  *
*KY.  *MCH-280  *1 DIGIT *EACH VISIT  *MEDICAL SERVICES (IF POSSIBLE*
*      *          *          *          *DIGITS)  *
*MISS.* 208     *CODE 3  *EACH VISIT  *MEDICAL SERVICES: URINE/B.P.,  *
*      *          *          *          *OR URINE  *
*N.C.  * 1458   * CODES: *EACH VISIT  *          *
*      *          *0-NO, 1-*          *          *
*      *          *YES    *          *          *
*S.C.  *DHEC 1618 *SENSE   *EACH VISIT  *LAB TESTS URINE  *
*      *          *MARK 1  *          *          *
*      *          *DIGIT  *          *          *
*TENN.*FHS 817  *          *          *DUES NOT COLLECT THIS DATA ITEM*
*PROP-* N/A     *NONE    *AS      *MEDICAL SERVICES  *
*TENN *          *          *APPROPRIATE *          *

```

```

////////////////////////////////////
DATA ELEMENT:HCT OR HGB                                     CODE:A073

```

```

*****
*STATE*FORM NO. * FORMAT *WHEN ENTERED *          COMMENTS  *
*****
*ALA./*NCHS     *          *          *DUES NOT COLLECT THIS DATA ITEM*
*FLA.*          *          *          *          *
*GA.  *DPH/HIS  *SENSE   *EVERY VISIT  *SERVICE(S) PROVIDED SECTION  *
*      *(7)-55  *MARK    *          *          *MEDICAL/NURSING SUBSECTION  *

```

```

*KY, *MCH=280 * * * * *DUES NOT COLLECT THIS DATA ITEM*
*MISS,* 208 * CODES: *EVERY VISIT *MEDICAL SERVICES: HGB AND HCT *
* * * * *1.YES, 2* * * * *
* * * * *NO * * * * *
*N.C. * 1457 * * * * *DUES NOT COLLECT THIS DATA ITEM*
*S.C. *DHEC 1618 *SENSE *EACH VISIT *LAB TESTS HCT OR HGB *
* * * * *MARK 1 * * * * *
* * * * *DIGIT * * * * *
*TENN.*FHS 817 * * * * *DUES NOT COLLECT THIS DATA ITEM*
*PROP=* N/A * * * * *DUES NOT COLLECT THIS DATA ITEM*
*TENN * * * * *

```

```

////////////////////////////////////
DATA ELEMENT:V.D. BLOOD TEST CODE:IA074

```

```

*****
*STATE*FORM NO. * FORMAT *WHEN ENTERED * COMMENTS *
*****
*ALA./*NCHS *CODE 6 * *MEDICAL SERVICES V.D. TESTING*
*FLA,* * * * *
*GA. *DPH/HIS *SENSE *EVERY VISIT *SERVICE(S) PROVIDED SECTION *
* * *(7)=55 *MARK * *MEDICAL/NURSING SUBSECTION *
*KY. *MCH=280 *1 DIGIT *EACH VISIT *MEDICAL SERVICES (11 POSSIBLE*
* * * * * *DIGITS) *
*MISS,* 208 * * * * *DUES NOT COLLECT THIS DATA ITEM*
*N.C. * 1458 * CODES: *EACH VISIT *SEROLOGY *
* * * * *0=NO, 1=* * * * *
* * * * *YES * * * * *
*S.C. *DHEC 1618* * * * *DUES NOT COLLECT THIS DATA ITEM*
*TENN.*FHS 817 * * * * *DUES NOT COLLECT THIS DATA ITEM*
* * * * * *SEROLOGY?? *
*PROP=* N/A * * * * *DUES NOT COLLECT THIS DATA ITEM*
*TENN * * * * *

```

```

////////////////////////////////////
DATA ELEMENT:SICKLE CELL ANEMIA TEST CODE:IA075

```

```

*****
*STATE*FORM NO. * FORMAT *WHEN ENTERED * COMMENTS *
*****
*ALA./*NCHS *CODE A * *SERVICES PROVIDED *
*FLA,* * * * *
*GA. *DPH/HIS *SENSE *EVERY VISIT *SERVICE(S) PROVIDED SECTION *
* * *(7)=55 *MARK * *MEDICAL/NURSING SUBSECTION *
*KY. *MCH=280 *1 DIGIT *EACH VISIT *TESTING SICKLE CELL *
*MISS,* 208 * * * * *DUES NOT COLLECT THIS DATA ITEM*
*N.C. * 1457 * * * * *DUES NOT COLLECT THIS DATA ITEM*

```

```

*S.C. *DHEC 1618 *SENSE *EACH VISIT *LAB TESTS SICKLE CELL *
* * * *MARK 1 * * *
* * * *DIGIT * * *
*TENN.*+HS 817 * * * *DUES NOT COLLECT THIS DATA ITEM*
*PROP=* N/A *NONE *AS *MEDICAL SERVICES *
*TENN * * * *APPROPRIATE * *

```

```

////////////////////
DATA ELEMENT:STERILIZATION CODE:A076

```

```

*****
*STATE*FORM NO. * FORMAT *WHEN ENTERED * COMMENTS *
*****
*ALA./*NCHS *CODE 9 * *MEDICAL SERVICES *
*FLA. * * * * *
*GA. *DPH/HIS *SENSE *EVERY VISIT *SERVICE(S) PROVIDED SECTION *
* * *(7)=55 *MARK * * *MEDICAL/NURSING SUBSECTION *
*KY. *MCH=280 *1 DIGIT *EACH VISIT *MEDICAL SERVICES (11 POSSIBLE *
* * * * *DIGITS) *
*MISS.* 208 * * * *DUES NOT COLLECT THIS DATA ITEM*
*N.C. * 1457 * * * *DUES NOT COLLECT THIS DATA ITEM*
*S.C. *DHEC 1618 * * * *DUES NOT COLLECT THIS DATA ITEM*
*TENN.*+HS 817 * * * *DUES NOT COLLECT THIS DATA ITEM*
*PROP=* N/A * * * *DUES NOT COLLECT THIS DATA ITEM*
*TENN * * * * *

```

```

////////////////////
DATA ELEMENT:INFERTILITY CODE:A077

```

```

*****
*STATE*FORM NO. * FORMAT *WHEN ENTERED * COMMENTS *
*****
*ALA./*NCHS *CODE 0 * *MEDICAL SERVICES INFERTILITY *
*FLA. * * * *TREATMENT *
*GA. *DPH/HIS *SENSE *EVERY VISIT *SERVICE(S) PROVIDED SECTION *
* * *(7)=55 *MARK * * *MEDICAL/NURSING SUBSECTION *
*KY. *MCH=280 *1 DIGIT *EACH VISIT *MEDICAL SERVICES (11 POSSIBLE *
* * * * *DIGITS) *
*MISS.* 208 * * * *DUES NOT COLLECT THIS DATA ITEM*
*N.C. * 1458 * CODES: *EACH VISIT *INFERTILITY SERVICES PROVIDED: *
* * * *0=3, 1 * *0=NONE, 1=COUNSELING, 2= *
* * * *DIGIT * *TREATMENT, 3=REFERRAL *
*S.C. *DHEC 1618 * * * *DUES NOT COLLECT THIS DATA ITEM*
*TENN.*+HS 817 * * * *DUES NOT COLLECT THIS DATA ITEM*
*PRDP=* N/A * * * *DUES NOT COLLECT THIS DATA ITEM*
*TENN * * * * *

```

////////////////////////////////////
 DATA ELEMENT: OTHER (MEDICAL/NURSING SERVICE(S) PROVIDED) CODE: A078

 *STATE*FORM NO. * FORMAT *WHEN ENTERED * COMMENTS *

 *ALA./*NCHS *CODE X * *MEDICAL SERVICES OTHER *
 FLA. * * * * *
 *GA. *DPH/HIS *SENSE *EVERY VISIT *SERVICE(S) PROVIDED SECTION *
 *(7)-55 *MARK * *MEDICAL/NURSING SUBSECTION *
 *KY. *MCH=280 *1 DIGIT *EACH VISIT *MEDICAL SERVICES (11 POSSIBLE *
 * * * * *DIGITS) *
 MISS. 208 *CODE 2 *EACH VISIT *MEDICAL SERVICES; OTHER MEDICAL *
 * * * * */LAB TEST = 2.MED. *
 *N.C. * 1458 * CODES: *EACH VISIT *OTHER MEDICAL FXAMS *
 * * * *0=NO, 1=* * *
 * * * *YES * * *
 *S.C. *DHEC 1618 * * *DUES NOT COLLECT THIS DATA ITEM*
 *TENN.*FHS 817 * * *DUES NOT COLLECT THIS DATA ITEM*
 PROP= N/A *NONE *AS *MEDICAL SERVICES *
 *TENN * * *APPROPRIATE * *

////////////////////////////////////
 DATA ELEMENT: POSITIVE PREG. TEST CODE: A079

 *STATE*FORM NO. * FORMAT *WHEN ENTERED * COMMENTS *

 *ALA./*NCHS *CODE 5 * *MEDICAL SERVICES PREGNANCY *
 FLA. * * * *TESTING *
 *GA. *DPH/HIS *SENSE *EVERY VISIT *SERVICE(S) PROVIDED SECTION *
 *(7)-55 *MARK * *MEDICAL/NURSING SUBSECTION *
 *KY. *MCH=280 *1 DIGIT *EACH VISIT *MEDICAL SERVICES (11 POSSIBLE *
 * * * * *DIGITS) *
 MISS. 208 * CODE: 1 *EACH VISIT *MEDICAL SERVICES; PREGNANCY *
 * * * *.YES, 2.* *TEST *
 * * * *NO * * *
 *N.C. * 1458 * CODES: *EACH VISIT *PREGNANCY TEST *
 * * * *0=NO, 1=* * *
 * * * *YES * * *
 *S.C. *DHEC 1618 *SENSE *AS *POSITIVE LAB RESULTS PREG. *
 * * * *MARK 1 *APPROPRIATE * *
 * * * *DIGIT * * *
 *TENN.*FHS 817 * * *DUES NOT COLLECT THIS DATA ITEM*
 PROP= N/A *NONE *AS *MEDICAL SERVICES; PREGNANCY *
 *TENN * * *APPROPRIATE *TEST *

////////////////////////////////////
 DATA ELEMENT: NEGATIVE PREG. TEST CODE: A080

```

*****
*STATE*FORM NO. * FORMAT *WHEN ENTERED *          COMMENTS          *
*****
*ALA./*NCHS      *CODE 5 *          *MEDICAL SERVICES PREGNANCY *
*FLA.* *          *          *TESTING *
*GA. *DPH/HIS    *SENSE *EVERY VISIT *SERVICE(S) PROVIDED SECTION *
*   *   *(7)-55  *MARK  *          *MEDICAL/NURSING SUBSECTION *
*KY. *MCH-280    *          *          *DUEFS NOT COLLECT THIS DATA ITEM*
*MISS.* 208      *          *          *DUEFS NOT COLLECT THIS DATA ITEM*
*N.C. * 1458     * CODES: *EACH VISIT *PREGNANCY TEST *
*   *   *          *0=NO 1= *          *          *
*   *   *          *YES *          *          *
*S.C. *DHEC 1618*          *          *DUEFS NOT COLLECT THIS DATA ITEM*
*TENN.*FHS 817  *          *          *DUEFS NOT COLLECT THIS DATA ITEM*
*PROP=* N/A     *          *          *DUEFS NOT COLLECT THIS DATA ITEM*
*TENN *          *          *          *

```

```

////////////////////////////////////
DATA ELEMENT: SUPPLY VISIT OR STRING CHECK          CODE: A081

```

```

*****
*STATE*FORM NO. * FORMAT *WHEN ENTERED *          COMMENTS          *
*****
*ALA./*NCHS      *CODE 1 *EVERY VISIT *NEXT APPOINTMENT PURPOSE ( *
*FLA.* *          *          *SUPPLY ONLY) *
*GA. *DPH/HIS    *SENSE *EVERY VISIT *PURPOSE(S) OF NEXT APPOINTMENT *
*   *   *(7)-55  *MARK  *          *SECTION *
*KY. *MCH-280    *1 DIGIT *EACH VISIT *TYPE OF THIS VISIT SUPPLY ONLY*
*   *   *          *CODE 0 & *   *(SCHED.) SUPPLY ONLY (UNSCHED.*
*   *   *          *4 *          *) *
*MISS.* 208      *CODE 2 *EACH VISIT *REASON FOR NEXT VISIT: RESUPPLY*
*   *   *          *          *VISIT *
*N.C. * 1458     *CODE 6 *EACH VISIT *TYPE OF THIS VISIT: 6,SUPPLY *
*   *   *          *          *ONLY *
*S.C. *DHEC 1618*SENSE *EACH VISIT *TYPE OF THIS VISIT SUPPLY ONLY*
*   *   *          *MARK 1 *          *          *
*   *   *          *DIGIT *          *          *
*TENN.*FHS 817  *CODE 2 *EVERY VISIT *REASONS FOR NEXT VISIT *
*PROP=* N/A     *CODE 8 *EACH VISIT *TYPE OF ENTRY: SUPPLY/VISIT *
*TENN *          *          *          *

```

```

////////////////////////////////////
DATA ELEMENT: ANNUAL EXAMINATION          CODE: A082

```

```

*****
*STATE*FORM NO. * FORMAT *WHEN ENTERED *          COMMENTS          *
*****
*ALA./*NCHS      *CODE 2 *          *NEXT APPOINTMENT PURPOSE *

```

```

*FLA. * * * *ANNUAL MEDICAL *
*GA. *DPH/HIS *SENSE *EVERY VISIT *PURPOSE(S) OF NEXT APPOINTMENT *
* * *(7)-55 *MARK * * * *SECTION *
*KY. *MCH=280 *1 DIGIT *EACH VISIT *TYPE OF VISIT REVISIT (ANNUAL *
* * * *CODE 2, * * * *CKUP) UNSCHED. REVISIT FOR *
* * * *5 & 8 * * * *ANNUAL CKUP UNSCHED. PROB. *
* * * * * * * *VISIT INCLUDING ANNUAL CKUP, *
*MISS,* 208 *CODE 5 *EACH VISIT *TYPE VISIT: ANNUAL MEDICAL *
*N.C. * 1458 *CODE 3 *EACH VISIT *TYPE OF THIS VISIT: ANNUAL *
* * * * * * * *MEDICAL *
*S.C. *DHEC 1618 *SENSE *EACH VISIT *TYPE OF THIS VISIT ANNUAL *
* * * *MARK 1 * * * *MEDICAL *
* * * *DIGIT * * * * *
*TENN.*FHS 817 *CODE 3 *EVERY VISIT *REASONS FOR NEXT VISIT ANNUAL *
*PROP=* N/A *CODE 4 *EACH VISIT *TYPE OF ENTRY *
*TENN * * * * *

```

////////////////////////////////////

DATA ELEMENT: MEDICAL PROBLEM (PURPOSE OF NEXT APPOINTMENT) CODE: A083

*STATE*FORM NO. * FORMAT *WHEN ENTERED * COMMENTS *

```

*ALA./*NCHS *CODE 3 * *NEXT APPOINTMENT PURPOSE OTHER*
*FLA. * * * *MEDICAL *
*GA. *DPH/HIS *SENSE *EVERY VISIT *PURPOSE(S) OF NEXT APPOINTMENT *
* * *(7)-55 *MARK * * * *SECTION *
*KY. *MCH=280 *1 DIGIT *EACH VISIT *PURPOSE OF NEXT APPOINTMENT *
* * * *CODE 3 * * * *OTHER MEDICAL *
*MISS,* 208 *CODE 5 *EACH VISIT *REASON FOR NEXT VISIT: MEDICAL/*
* * * * * * * *COMPLICATION *
*N.C. * 1458 *CODE 5 *EACH VISIT *TYPE OF NEXT APPOINTMENT *
*S.C. *DHEC 1618* * * *DUES NOT COLLECT THIS DATA ITEM*
*TENN.*FHS 817 *CODE 1 *EVERY VISIT *REASONS FOR NEXT VISIT MEDICAL*
* * * * * * * *FOLLOW-UP *
*PROP=* N/A *CODES 1 *EACH VISIT *REASON FOR NEXT VISIT: MEDICAL *
*TENN * *AND 4 * * * *FOLLOWUP, FIRST MEDICAL *

```

////////////////////////////////////

DATA ELEMENT: OTHER (PURPOSE(S) OF NEXT APPOINTMENT) CODE: A084

*STATE*FORM NO. * FORMAT *WHEN ENTERED * COMMENTS *

```

*ALA./*NCHS *CODE 4 * *NEXT APPOINTMENT PURPOSE *
*FLA. * * * * *
*GA. *DPH/HIS *SENSE *EVERY VISIT *PURPOSE(S) OF NEXT APPOINTMENT*
* * *(7)-55 *MARK * * * *SECTION *
*KY. *MCH=280 *1 DIGIT *EACH VISIT *PURPOSE OF NEXT APPOINTMENT *

```

```

*      *          *CODE 4 *          *
*MISS.* 208      *CODE 8 *EACH VISIT *REASON FOR NEXT VISIT: OTHER *
*      *          *      *      *      *MEDICAL(SPECIFY) *
*N.C.* 1458     *CODE 9 *EACH VISIT *TYPE OF NEXT APPOINTMENT *
*S.C.* DHEC 1618*      *      *      *DUES NOT COLLECT THIS DATA ITEM*
*TENN.*FHS 817 *CODE 8 *EVERY VISIT *REASONS FOR NEXT VISIT *
*PROP-* N/A     *CODE 7 *EACH VISIT *REASON FOR NEXT APPOINTMENT *
*TENN *          *      *      *      *

```

```

////////////////////////////////////
DATA ELEMENT:NO NEXT APPOINTMENT CODE:A085

```

```

*****
*STATE*FORM NO. * FORMAT *WHEN ENTERED *          COMMENTS *
*****
*ALA./*NCHS      *CODE 5 *          *NEXT APPOINTMENT PURPOSE *
*FLA.*          *      *      *          *          *
*GA.* DPH/HIS    *SENSE *EVERY VISIT *PURPOSE(S) OF NEXT APPOINTMENT *
*      * (7)-55   *MARK *      *      *SECTION *
*KY.* MCH=280    *1 DIGIT *EACH VISIT *PURPOSE OF NEXT APPOINTMENT *
*      *          *CODE 5 *      *      *          *
*MISS.* 208      *CODE 0 *EACH VISIT *REASON FOR NEXT VISIT: NO *
*      *          *      *      *      *RETURN VISIT *
*N.C.* 1457     *      *      *      *DUES NOT COLLECT THIS DATA ITEM*
*S.C.* DHEC 1618*      *      *      *DUES NOT COLLECT THIS DATA ITEM*
*TENN.*FHS 817 *CODE 0 *EVERY VISIT *REASONS FOR NEXT VISIT *
*PROP-* N/A     *CODE 0 *EACH VISIT *NO NEXT VISIT *
*TENN *          *      *      *      *

```

```

////////////////////////////////////
DATA ELEMENT:DATE OF NEXT APPOINTMENT CODE:A086

```

```

*****
*STATE*FORM NO. * FORMAT *WHEN ENTERED *          COMMENTS *
*****
*ALA./*NCHS      *NONE *NEW PATIENT *NEXT APPOINTMENT DATE *
*FLA.*          *      *      *          *          *
*GA.* DPH/HIS    *MO/YR 2 *EVERY VISIT *PURPOSE(S) OF NEXT APPOINTMENT *
*      * (7)-55   *CHAR *      *      *SECTION *
*      *          *EACH *      *      *          *
*KY.* MCH=280    *6 DIGITS*EACH VISIT *MO. DAY YEAR *
*MISS.* 208      *6 DIGITS*EACH VISIT *DATE OF NEXT APPOINTMENT: MO/DA *
*      *          *      *      *      */YR *
*N.C.* 1458     *9 DIGITS*EACH VISIT *TIME AND DATE OF NEXT *
*      *          *      *      *      *APPOINTMENT *
*S.C.* DHEC 1618*SENSE *EACH VISIT *RETURN DATE MO. YR. DA. *
*      *          *MARK 6 *      *      *          *
*      *          *DIGITS *      *      *          *

```

```

*TENN.*FHS 817 *NONE *EVERY VISIT *DATE OF NEXT APPOINTMENT MU. *
* * * * *DA. YR. *
*PROP=* N/A *NONE *EACH VISIT *
*TENN * * * * *

```

```

////////////////////////////////////
DATA ELEMENT: SOCIAL SERVICES (REFERRED FOR:) CODE: A087

```

```

*****
*STATE*FORM NO. * FORMAT *WHEN ENTERED * COMMENTS *
*****
*ALA./*NCHS * * * *DUES NOT COLLECT THIS DATA ITEM*
*FLA. * * * *
*GA. *DPH/HIS *SENSE * *
* *(7)-55 *MARK * *
*KY. *MCH=280 *1 DIGIT *EACH VISIT *ASSOCIATE REFERRALS *
* * * *CODE 5 * *
*MISS,* 208 * * * *DUES NOT COLLECT THIS DATA ITEM*
*N.C. * 1457 * * * *DUES NOT COLLECT THIS DATA ITEM*
*S.C. *DHEC 1618* * * *DUES NOT COLLECT THIS DATA ITEM*
*TENN.*FHS 817 * * * *DUES NOT COLLECT THIS DATA ITEM*
*PROP=* N/A * * * *DUES NOT COLLECT THIS DATA ITEM*
*TENN * * * *

```

```

////////////////////////////////////
DATA ELEMENT: MEDICAL SERVICES (REFERRED FOR:) CODE: A088

```

```

*****
*STATE*FORM NO. * FORMAT *WHEN ENTERED * COMMENTS *
*****
*ALA./*NCHS * * * *DUES NOT COLLECT THIS DATA ITEM*
*FLA. * * * *
*GA. *DPH/HIS *SENSE * *
* *(7)-55 *MARK * *
*KY. *MCH=280 *1 DIGIT *EACH VISIT *ASSOCIATE REFERRALS OTHER *
* * * *CODE 4 * *MEDICAL SERVICES *
*MISS,* 208 * * * *DUES NOT COLLECT THIS DATA ITEM*
*N.C. * 1457 * * * *DUES NOT COLLECT THIS DATA ITEM*
*S.C. *DHEC 1618* * * *DUES NOT COLLECT THIS DATA ITEM*
*TENN.*FHS 817 * * * *DUES NOT COLLECT THIS DATA ITEM*
*PROP=* N/A * * * *DUES NOT COLLECT THIS DATA ITEM*
*TENN * * * *

```


DATA ELEMENT:STERILIZATION (REFERRED FOR:) CODE:A089

*STATE*FORM NO. * FORMAT *WHEN ENTERED * COMMENTS *

*ALA./*NCHS * * *DUES NOT COLLECT THIS DATA ITEM*
FLA. * * *
*GA. *DPH/HIS *SENSE * * *
* * *(7)=55 *MARK * * *
*KY. *MCH=280 *1 DIGIT *EACH VISIT *ASSOCIATE REFERRALS *
* * * *CODE 2 * * *
MISS. 208 * * *DUES NOT COLLECT THIS DATA ITEM*
*N.C. * 1458 *CODE 5 *EACH VISIT *CONTRACEPTIVE SERVICES PROVIDED*
*S.C. *DHEC 1618* * *DUES NOT COLLECT THIS DATA ITEM*
*TENN.*FHS 817 * * *DUES NOT COLLECT THIS DATA ITEM*
PROP= N/A * * *DUES NOT COLLECT THIS DATA ITEM*
*TENN * * * *

////////////////////////////////////

DATA ELEMENT:ABORTION (REFERRED FOR:) CODE:A090

*STATE*FORM NO. * FORMAT *WHEN ENTERED * COMMENTS *

*ALA./*NCHS * * *DUES NOT COLLECT THIS DATA ITEM*
FLA. * * *
*GA. *DPH/HIS *SENSE * * *
* * *(7)=55 *MARK * * *
*KY. *MCH=280 *1 DIGIT *EACH VISIT *ASSOCIATE REFERRALS *
* * * *CODE 1 * * *
MISS. 208 * * *DUES NOT COLLECT THIS DATA ITEM*
*N.C. * 1458 *CODE 4 *EACH VISIT *CONTRACEPTIVE SERVICES PROVIDED*
*S.C. *DHEC 1618* * *DUES NOT COLLECT THIS DATA ITEM*
*TENN.*FHS 817 * * *DUES NOT COLLECT THIS DATA ITEM*
PROP= N/A * * *DUES NOT COLLECT THIS DATA ITEM*
*TENN * * * *

////////////////////////////////////

DATA ELEMENT:INFERTILITY TREATMENT (REFERRED FOR:) CODE:A091

*STATE*FORM NO. * FORMAT *WHEN ENTERED * COMMENTS *

*ALA./*NCHS * * *DUES NOT COLLECT THIS DATA ITEM*
FLA. * * *
*GA. *DPH/HIS *SENSE * * *
* * *(7)=55 *MARK * * *

```

*KY. *MCH=280 *1 DIGIT *EACH VISIT *ASSOCIATE REFERRALS *
* * *CODE 3 * * *
*MISS,* 208 * * * *DUES NOT COLLECT THIS DATA ITEM*
*N.C. * 1457 * * * *DUES NOT COLLECT THIS DATA ITEM*
*S.C. *DHEC 1618* * * *DUES NOT COLLECT THIS DATA ITEM*
*TENN.*FHS 817 * * * *DUES NOT COLLECT THIS DATA ITEM*
*PROP=* N/A * * * *DUES NOT COLLECT THIS DATA ITEM*
*TENN * * * *

```

```

////////////////////////////////////
DATA ELEMENT:OTHER (REFERRED FOR) CODE:A092

```

```

*****
*STATE*FORM NO. * FORMAT *WHEN ENTERED * COMMENTS *
*****
*ALA./*NCHS * * * *DUES NOT COLLECT THIS DATA ITEM*
*FLA,* * * * *
*GA. *DPH/HIS *SENSE * * *
* *(7)=55 *MARK * *
*KY. *MCH=280 * * * *DUES NOT COLLECT THIS DATA ITEM*
*MISS,* 208 * * * *DUES NOT COLLECT THIS DATA ITEM*
*N.C. * 1457 * * * *DUES NOT COLLECT THIS DATA ITEM*
*S.C. *DHEC 1618* * * *DUES NOT COLLECT THIS DATA ITEM*
*TENN.*FHS 817 * * * *DUES NOT COLLECT THIS DATA ITEM*
*PROP=* N/A * * * *DUES NOT COLLECT THIS DATA ITEM*
*TENN * * * *

```

```

////////////////////////////////////
DATA ELEMENT:MEDICAID NUMBER CODE:A093

```

```

*****
*STATE*FORM NO. * FORMAT *WHEN ENTERED * COMMENTS *
*****
*ALA./*NCHS * * * *ENTER AT BOTTOM OF FORM *
*FLA,* * * * *
*GA. *DPH/HIS * * * *DUES NOT COLLECT THIS DATA ITEM*
* *(7)=55 * * * *
*KY. *MCH=280 *10 *EACH VISIT * *
* * *DIGITS * * *
*MISS,* 208 * * * *DUES NOT COLLECT THIS DATA ITEM*
*N.C. * 1458 *1 DIGIT *EACH VISIT *IF MEDICAID PATIENT, CHECK BOX *
* * * *AND AFFIX LABEL HERE *
*S.C. *DHEC 1618* * * *DUES NOT COLLECT THIS DATA ITEM*
*TENN.*FHS 817 *11 *EVERY VISIT * *
* * *DIGITS * * *

```

PROP= N/A *11 *EACH VISIT *
 *TENN * *DIGITS * * *

////////////////////////////////////

DATA ELEMENT:TYPE OF THIS VISIT CODE:A094

*STATE*FORM NO. * FORMAT *WHEN ENTERED * COMMENTS *

*ALA./*NCHS	*NONE	*	*INITIAL VISIT REVISIT (FIRST
*FLA. *	*	*	*VISIT THIS YEAR) REVISIT (NOT
*	*	*	*FIRST) READMISSION VISIT *
*GA. *DPH/HIS	*	*	*DUES NOT COLLECT THIS DATA ITEM*
* * * (7)-55	*	*	*
*KY. *MCH=280	*1 DIGIT	*EACH VISIT	*0. SUPPLY ONLY (SCHED.) 1. *
* * *	*CODE 0	*	*INTAKE 2. REVISIT (ANNUAL
* * *	*THRU 6,	*	*CKUP) 3. REVISIT (NOT FIRST
* * *	*8 & 9	*	*YEAR) 4. SUPPLY ONLY (UNSCHED.
* * *	*	*	*) 5. UNSCHED. REVISIT FOR
* * *	*	*	*ANNUAL CKUP 6. UNSCHED. NON-
* * *	*	*	*PROBLEM 8. UNSCHED. PROBLEM
* * *	*	*	*VISIT INCLUDING ANNUAL CKUP 9. *
* * *	*	*	*UNSCHED. PROBLEM REVISIT *
*MISS. * 208	* CODES:	*EACH VISIT	*TYPE VISIT: NEW ADMISSION,
* * *	*1-5	*	*MEDICAL FOLLOWUP, RE-ADMISSION,
* * *	*	*	*NEW TO DATA SYSTEM, OR ANNUAL
* * *	*	*	*MEDICAL *
*N.C. * 1458	*CODES 1	*EACH VISIT	*1. INITIAL VISIT, 2. SCHEDULED
* * *	*THRU 9,	*	*REVISIT, 3. ANNUAL MEDICAL, 4.
* * *	*1 DIGIT	*	*OTHER MEDICAL, 5. METHOD PROBLEM *
* * *	*	*	*6. SUPPLY ONLY, 7. OUTREACH
* * *	*	*	*VISIT BY STAFF, 8. FOLLOWUP CARE *
* * *	*	*	*HOME VISIT, 9. OTHER *
*S.C. *OHEC 1618	*SENSE	*EACH VISIT	*INITIAL SCHED. REVISIT *
* * *	*MARK 1	*	*ANNUAL MEDICAL OTHER MEDICAL *
* * *	*DIGIT	*	* METHOD PROBLEM SUPPLY ONLY *
* * *	*	*	*OTHER *
*TENN. *FHS 817	*CODES 1	*EVERY VISIT	*PATIENTS MAIN REASON FOR VISIT *
* * *	*THRU 3 &	*	*1. NEW ADMISSION 2. MEDICAL *
* * *	*8	*	*FOLLOW-UP 3. READMISSION 4. *
* * *	*	*	*OTHER *
PROP= N/A	*CODES 1	*EACH VISIT	*1. INITIAL VISIT, 2. MEDICAL
*TENN *	*THRU 9	*	*REVISIT, 3. RE-ADMISSION, 4.
* * *	*	*	*ANNUAL EXAM, 5. TERM., 6.
* * *	*	*	*CERTIFICATION, 7. CHANGE/
* * *	*	*	*CORRECT, 8. SUPPLY VISIT, 9.
* * *	*	*	*OTHER *

////////////////////////////////////

DATA ELEMENT:CURRENTLY ON WELFARE? CODE:A095

*STATE*FORM NO. * FORMAT *WHEN ENTERED * COMMENTS *

*ALA./*NCHS	*CODE A.	*NEW PATIENT	*WELFARE STATUS
*FLA. *	*	*	*
*GA. *DPH/HIS	*	*	*DUES NOT COLLECT THIS DATA ITEM*

```

*      *(7)-55      *      *      *
*KY.   *MCH=280     *1 DIGIT *ANNUAL UPDATE*RECEIVING PUBLIC ASSISTANCE? *
*      *           *YES OR *           *           *
*      *           *NO      *           *           *
*MISS,* 208        *CODES 1 *EACH VISIT *1.NO, 2.YES AFDC, 3.YES OTHER, *
*      *           *THRU 3, *           *9.UNKNOWN *
*      *           *AND 9 *           *           *
*N.C.  * 1457      *CODES 0 *NEW ADMISSION *FAMILY RECEIVING FINANCIAL *
*      *           *THRU 4, *OR RE= *ASSISTANCE FROM THE DEPT. OF *
*      *           *1 DIGIT *ADMISSION *SOCIAL SERVICES: 0.NO, 1.AFDC, *
*      *           *           *           *2.APTD, 3.AB, 4.OTHER *
*S.C.  *DHEC 1618* *           *           *DUES NOT COLLECT THIS DATA ITEM*
*TENN.*FHS 817    *CODES 1 *EVERY VISIT *1. NO 2. YES = AFDC 3. YES *
*      *           *THRU 5 & *           * = OTHER 4. POTENTIAL 5. *
*      *           *9      *           *FURMER 9. UNKNOWN *
*PROP=* N/A       *CODES 1 *EACH VISIT *WELFARE STATUS: 1.NO, 2.AFDC, 3. *
*TENN *           *THRU 6 *           *OTHER, 4.POTENTIAL, 5.FORMER, *
*      *           *           *           *6.NOT WITHIN SIX MONTHS *

```

```

////////////////////
DATA ELEMENT: REGISTERED FOR MEDICAID? CODE: A096
*****
*STATE*FORM NO. * FORMAT *WHEN ENTERED * COMMENTS *
*****
*ALA./*NCHS     *CODE B *NEW PATIENT *WELFARE STATUS *
*FLA.* *           *           *           *           *
*GA.   *DPH/HIS *           *           *DUES NOT COLLECT THIS DATA ITEM*
*      **(7)-55 *           *           *           *
*KY.   *MCH=280 *1 DIGIT *ANNUAL UPDATE*
*      *           *YES OR *           *           *
*      *           *NO      *           *           *
*MISS,* 208    *CODES 1,*EACH VISIT *1.NO, 2.YES, 9.UNKNOWN *
*      *           *2 AND 9 *           *           *
*N.C.  * 1457  * CODES: *NEW ADMISSION *APPROVED FOR MEDICAID *
*      *           *0=NO, 1= *OR RE= *           *           *
*      *           *YES   *ADMISSION *           *           *
*S.C.  *DHEC 1618* *           *           *DUES NOT COLLECT THIS DATA ITEM*
*TENN.*FHS 817 *CODES 1,* *           *1. NO 2. YES 9. UNKNOWN *
*      *           *2 & 9 *           *           *
*PROP=* N/A    * CODES: *EACH VISIT *MEDICAID *
*TENN *           *1 AND 2,* *           *           *
*      *           *YES OR *           *           *
*      *           *NO      *           *           *

```

```

////////////////////
DATA ELEMENT: NUMBER OF PREGNANCIES CODE: A097
*****
*STATE*FORM NO. * FORMAT *WHEN ENTERED * COMMENTS *
*****
*ALA./*NCHS     *           *           *DUES NOT COLLECT THIS DATA ITEM*

```

```

*FLA. * * * *
*GA. *DPH/HIS * * *DOES NOT COLLECT THIS DATA ITEM*
*(7)-55 * * *
*KY. *MCH=280 * * *DOES NOT COLLECT THIS DATA ITEM*
* * * * *NO. OF LIVE BIRTHS + NO. OF
* * * * *FETAL DEATHS = NO. OF
* * * * *PREGNANCIES
*MISS. * 208 * CODES: *NEW ADMISSION*
* * * * *0-7, 8 *OR RE=
* * * * *OR MORE, *ADMISSION
* * * * *9 *
* * * * *UNKNOWN *
*N.C. * 1457 *2 DIGITS*NEW ADMISSION*TOTAL NUMBER OF PREGNANCIES
* * * * *OR RE=
* * * * *ADMISSION
*S.C. *DHEC 1618 *SENSE *AS *PARITY
* * * * *MARK 1 *APPROPRIATE
* * * * *DIGIT *
*TENN. *FHS 817 *CODES 0 *NEW ADMISSION*
* * * * *THRU 7 8 *OR
* * * * *OR *READMISSION
* * * * *MORE 9.
* * * * *UNKNOWN
*PROP=* N/A * * *DOES NOT COLLECT THIS DATA ITEM*
*TENN * * * *

```

////////////////////////////////////

DATA ELEMENT:NUMBER BURN ALIVE CODE:A098

*STATE*FORM NO. * FORMAT *WHEN ENTERED * COMMENTS *

```

*ALA./*NCHS *CODE A *NEW PATIENT *NUMBER OF LIVE BIRTHS
*FLA. * * * *
*GA. *DPH/HIS * * *DOES NOT COLLECT THIS DATA ITEM*
*(7)-55 * * *
*KY. *MCH=280 *1 DIGIT *ANNUAL UPDATE*NUMBER OF LIVE BIRTHS
*MISS. * 208 *CODES 0 *NEW ADMISSION*
* * * * *THRU 7, *OR RE=
* * * * *8 OR *ADMISSION
* * * * *MORE, 9 *
* * * * *UNKNOWN *
*N.C. * 1457 *2 DIGITS*NEW ADMISSION*NUMBER OF LIVE BIRTHS
* * * * *OR RE=
* * * * *ADMISSION
*S.C. *DHEC 1618* * *DOES NOT COLLECT THIS DATA ITEM*
*TENN. *FHS 817 *CODES 0 *NEW ADMISSION*
* * * * *THRU 7 8 *OR
* * * * *OR *READMISSION
* * * * *MORE 9.
* * * * *UNKNOWN
*PROP=* N/A *CODES 0 *EACH VISIT *LIVE BIRTHS
*TENN * * * * *THRU 8 *

```

////////////////////////////////////

DATA ELEMENT:CHILDREN UNDER 5 YEARS OLD CODE:A099

*STATE*FORM NO. * FORMAT *WHEN ENTERED * COMMENTS *

*ALA,/*NCHS * * *DUES NOT COLLECT THIS DATA ITEM*
FLA, * * *

*GA,*DPH/HIS * * *DUES NOT COLLECT THIS DATA ITEM*
*(7)-55 * *

*KY,*MCH=280 * * *DUES NOT COLLECT THIS DATA ITEM*

MISS, 208 *CODES 0 *NEW ADMISSION* *
* *THRU 7, *OR RE= * *
* * *8 OR *ADMISSION * *
* * *MORE, 9 * *
* * *UNKNOWN * *

N.C, 1457 * * *DUES NOT COLLECT THIS DATA ITEM*

*S.C,*DHEC 1618* * *DUES NOT COLLECT THIS DATA ITEM*

*TENN,*FHS 817 *CODES 0 *NEW ADMISSION* *
* *THRU 7 9*OR * *
* * * *READMISSION * *
* * *UNKNOWN * *

PROP= N/A * * *DUES NOT COLLECT THIS DATA ITEM*
*TENN * * *

////////////////////////////////////

DATA ELEMENT:OUTCOME OF LAST DELIVERY CODE:A100

*STATE*FORM NO. * FORMAT *WHEN ENTERED * COMMENTS *

*ALA,/*NCHS * * *DUES NOT COLLECT THIS DATA ITEM*
FLA, * * *

*GA,*DPH/HIS * * *DUES NOT COLLECT THIS DATA ITEM*
*(7)-55 * *

*KY,*MCH=280 *1 DIGIT *ANNUAL UPDATE* *

MISS, 208 *CODES 1 *NEW ADMISSION*1, BORN ALIVE-TERM, 2, BORN ALIVE*
* *THRU 4,7*OR RE= *-PREMATURE, 3, BORN DEAD, 4, *
* * *8, & 9 *ADMISSION *MISCARRIAGE/ABORTION, 7, NEVER *
* * * *PREGNANT, 8, OTHER, 9, UNKNOWN * *

N.C, 1457 *CODES 1 *NEW ADMISSION*1, LIVE, 5-1/2 LBS OR MORE, 2, *
* *THRU 5, *OR RE= *LIVE, LESS THAN 5-1/2 LBS, 3, *
* * *1 DIGIT *ADMISSION *FETAL DEATH, 4, INDUCED ABORTION*
* * * *5, OTHER *

*S.C,*DHEC 1618* * *DUES NOT COLLECT THIS DATA ITEM*

*TENN,*FHS 817 *CODES 1 *NEW ADMISSION*1, BORN ALIVE - TERM 2, BORN *
* *THRU 5 8* *ALIVE - PREMATURE 3, BORN DEAD*
* * *7 THRU 9* *4, MISCARRIAGE 5, ABORTION *
* * * *7, NEVER BEEN PREGNANT 8, *
* * * *OTHER 9, UNKNOWN *

PROP= N/A * * *DUES NOT COLLECT THIS DATA ITEM*
*TENN * * *

////////////////////////////////////

DATA ELEMENT: MAIN SOURCE OF REFERRAL

CODE: A101

```

*****
*STATE*FORM NO. * FORMAT *WHEN ENTERED *          COMMENTS *
*****
*ALA./*NCHS      *CODES 1 *NEW PATIENT  *1. OUTREACH WORKER 2. OTHER FP*
*FLA.*          *THRU 9 *          *CLINIC 3. HOSPITAL OR OTHER *
*          *0          *          *HEALTH AGENCY 4. PRIVATE *
*          *          *          *AGENCY 5. WELFARE AGENCY 6.*
*          *          *          *ANOTHER CLINIC 7. FAMILY UR *
*          *          *          *FRIEND 8. TV, RADIO, PAPER 9.*
*          *          *          *OTHER 0. UNKNOWN *
*GA.  *DPH/HIS  *          *          *DUES NOT COLLECT THIS DATA ITEM*
*      *(7)-55  *          *          *
*KY.  *MCH=280  *2 DIGITS*ANNUAL UPDATE*REFERRAL SOURCE *
*MISS.* 208     *CODES 1 *NEW ADMISSION*1. OUTREACH WORKER/PRDG. PERS. *
*          *THRU 9 *OR RE= *2. OTHER FP CLINIC, 3. ANOTHER *
*          *AND 0 *ADMISSION *HOSPITAL/HEALTH AGENCY, 4. *
*          *          *          *PRIVATE DR. OR NURSE, 5. WELFARE *
*          *          *          *DEPT., 6. OTHER CLINIC PATIENT, *
*          *          *          *7. FRIEND OR RELATIVE, 8. TV, *
*          *          *          *RADIO, PAPER, AD, 9. OTHER, *
*          *          *          *UNKNOWN *
*N.C.  * 1457   *CODES 1 *NEW ADMISSION*1. FAMILY PLANNING PRDG. STAFF, *
*          *THRU 9 *OR RE= *2. HOSPITAL OR OTHER HEALTH *
*          *1 DIGIT *ADMISSION *AGENCY, 3. PRIVATE DR. OR NURSE, *
*          *          *          *4. WELFARE AGENCY, 5. ANOTHER *
*          *          *          *CLINIC PATIENT, 6. FAMILY DR *
*          *          *          *FRIEND, 7. TV, RADIO, PAPER AD, *
*          *          *          *8. OTHER, 9. UNKNOWN *
*S.C.  *DHEC 1618 *SENSE *AS *HU OUTREACH OTHER PATIENT *
*          *MARK 1 *APPROPRIATE *SELF HOSPITAL P.P. PHN *
*          *DIGIT *          *PVT DOCTOR MFDJA DSS AP *
*          *          *          *CLINIC OTHER *
*TENN.*FHS 617  *CODES 1 *NEW ADMISSION*1. PHYSICIAN 2. P.H. NURSE *
*          *THRU 9 *OR *3. OTHER HEALTH DEPT. STAFF 4. *
*          *0 *READMISSION *FRIEND OR RELATIVE 5. WELFARE *
*          *          *          *6. OTHER SOCIAL AGENCY, 7. *
*          *          *          *SELF 8. OTHER 9. UNKNOWN *
*          *          *          *0. HOSPITAL *
*PRDP=* N/A     *CODES 01 *EACH VISIT *01. PRIVATE M.D., 02. OUTREACH, *
*TENN *          *THRU 11 *          *03. HEALTH DEPT., 04. FRIEND/ *
*          *          *          *RELATIVE, 05. WELFARE DEPT., 06. *
*          *          *          *NEWS MEDIA, 07. SELF, 08. OTHER, *
*          *          *          *09. CLINIC PATIENT, 10. NURSE *
*          *          *          *MIDWIFE PROGRAM, 11. HOSPITAL *

```

//////////////////////
 DATA ELEMENT: HAVE YOU BEEN PREGNANT SINCE YOUR LAST VISIT? CODE: A102

```

*****
*STATE*FORM NO. * FORMAT *WHEN ENTERED *          COMMENTS *
*****
*ALA./*NCHS      *          *          *DUES NOT COLLECT THIS DATA ITEM*
*FLA.*          *          *          *
*GA.  *DPH/HIS  *          *          *DUES NOT COLLECT THIS DATA ITEM*
*      *(7)-55  *          *          *
*KY.  *MCH=280  *          *          *DUES NOT COLLECT THIS DATA ITEM*
*MISS.* 208     *CODES 1 *RETURN VISIT *INTENTIONALLY: 1. YES, 2. NO *
*          *THRU 6 *          *UNINTENTIONALLY: 3. METHOD FAIL, *
*          *AND 9 *          *4. UNABLE TO OBTAIN SERVICE, 5. *

```

```

*      *      *      *      *DISSATISFIED/DISCONT., 6.      *
*      *      *      *      *INCORRECT, 9, UNKNOWN      *
*N.C. * 1457 *      *      *DUES NOT COLLECT THIS DATA ITEM*
*S.C. *DHEC 1618*      *      *DUES NOT COLLECT THIS DATA ITEM*
*TENN.*FHS 817 *CODES 1,*EVERY VISIT *1. YES 2. NO 9. UNKNOWN *
*      *      ** 2. & *      *      *      *
*      *      *9. *      *      *      *
*PROP=* N/A *      *      *DUES NOT COLLECT THIS DATA ITEM*
*TENN *      *      *      *

```

```

////////////////////////////////////
DATA ELEMENT: HAVE COMPLETED YEAR OF SCHOOL SINCE LAST VISIT? CODE: A103
*****
*STATE*FORM NO. * FORMAT *WHEN ENTERED *      COMMENTS      *
*****
*ALA./*NCHS *      *      *DUES NOT COLLECT THIS DATA ITEM*
*FLA. *      *      *      *
*GA. *DPH/HIS *      *      *DUES NOT COLLECT THIS DATA ITEM*
*      *(7)-55 *      *      *
*KY. *MCH-280 *1 DIGIT *ANNUAL UPDATE*EDUCATION *
*MISS.* 208 *CODES 1,*RETURN VISIT *1. YES, 2. NO, 3. UNKNOWN *
*      *      *2, AND 3 *      *      *
*N.C. * 1457 *      *      *DUES NOT COLLECT THIS DATA ITEM*
*S.C. *DHEC 1618*      *      *DUES NOT COLLECT THIS DATA ITEM*
*TENN.*FHS 817 *CODES 1,*EVERY VISIT *1. YES 2. NO 9. UNKNOWN *
*      *      *2 & 9 *      *      *
*PROP=* N/A *      *      *DUES NOT COLLECT THIS DATA ITEM*
*TENN *      *      *      *

```

```

////////////////////////////////////
DATA ELEMENT: QUESTION 53 CODE: A104
*****
*STATE*FORM NO. * FORMAT *WHEN ENTERED *      COMMENTS      *
*****
*ALA./*NCHS *      *      *DUES NOT COLLECT THIS DATA ITEM*
*FLA. *      *      *      *
*GA. *DPH/HIS *      *      *DUES NOT COLLECT THIS DATA ITEM*
*      *(7)-55 *      *      *
*KY. *MCH-280 *      *      *DUES NOT COLLECT THIS DATA ITEM*
*MISS.* 208 *      *      *DUES NOT COLLECT THIS DATA ITEM*
*N.C. * 1457 *      *      *DUES NOT COLLECT THIS DATA ITEM*
*S.C. *DHEC 1618*      *      *DUES NOT COLLECT THIS DATA ITEM*
*TENN.*FHS 817 *CODES 0 *EVERY VISIT *      *
*      *      *THRU 9 *      *      *
*PROP=* N/A *      *      *DUES NOT COLLECT THIS DATA ITEM*

```


*TENN * * * * *

////////////////////////////////////

DATA ELEMENT: HAVE YOU EVER USED ANY METHOD TO PREVENT PREG.? CODE: A105

*STATE*FORM NO. * FORMAT *WHEN ENTERED * COMMENTS *

*ALA./*NCHS *NONE *NEW PATIENT *CONTRACEPTIVE HISTORY *

*FLA. * * * * *

*GA. *DPH/HIS * * * * *DUES NOT COLLECT THIS DATA ITEM*

* * (7)-55 * * * * *

*KY. *MCH=280 * * * * *DUES NOT COLLECT THIS DATA ITEM*

*MISS. * 208 * * * * *DUES NOT COLLECT THIS DATA ITEM*

*N.C. * 1457 * CODES: *NEW ADMISSION* *

* * * * *0=NO, 1=OR RE= *

* * * * *YES = 1 *ADMISSION * *

* * * * *DIGIT * * *

*S.C. *DHEC 1618* * * * *DUES NOT COLLECT THIS DATA ITEM*

*TENN.*FHS 817 * * * * *DUES NOT COLLECT THIS DATA ITEM*

PROP- N/A *CODES 1 *EACH VISIT *EVER USED CONTRACEPTION *

*TENN * *AND 2 = * * * * *

* * * * *YES OR * * * * *

* * * * *NO * * * * *

////////////////////////////////////

DATA ELEMENT: MIDDLE NAME (OR INITIAL) CODE: A106

*STATE*FORM NO. * FORMAT *WHEN ENTERED * COMMENTS *

*ALA./*NCHS *NONE * * *

*FLA. * * * * *

*GA. *DPH/HIS * * * * *DUES NOT COLLECT THIS DATA ITEM*

* * (7)-55 * * * * *

*KY. *MCH=280 *1 CHAR *EACH VISIT *MI (MIDDLE INITIAL) *

*MISS. * 208 *NONE *EVERY VISIT *PATIENT NAME: MIDDLE *

*N.C. *1457, 1458 *NONE *EVERY VISIT *MI *

*S.C. *DHEC 1618 *NONE *EACH VISIT *MI (MIDDLE INITIAL) *

*TENN.*FHS 817 *NONE *EVERY VISIT * * *

PROP- N/A *NONE *EVERY VISIT *MI *

*TENN * * * * *

////////////////////////////////////

DATA ELEMENT: ARE YOU CURRENTLY USING CONTRACEPTION? CODE: A107

```

*****
*STATE*FORM NO. * FORMAT *WHEN ENTERED *          COMMENTS          *
*****
*ALA./*NCHS      *NONE      *NEW PATIENT  *CONTRACEPTIVE HISTORY      *
*FLA.*          *          *              *                          *
*GA.  *DPH/HIS  *          *          *DUES NOT COLLECT THIS DATA ITEM*
*(7)*55        *          *          *                          *
*KY.  *MCH=280  *          *          *DUES NOT COLLECT THIS DATA ITEM*
*MISS.* 208     *          *          *DUES NOT COLLECT THIS DATA ITEM*
*N.C. * 1457    * CODES: *NEW ADMISSION*ARE YOU USING ANY METHOD NOW? *
*          *      *0=NO 1= *OR RE= *                          *
*          *      *YES      *ADMISSION *                          *
*S.C. *DHEC 1618*          *          *DUES NOT COLLECT THIS DATA ITEM*
*          *      *          *          * COVERED ONLY BY ANSWERING *
*          *      *          *          *CONTRACEPTIVE METHOD          *
*TENN.*FHS 817  *          *          *DUES NOT COLLECT THIS DATA ITEM*
*PROP=* N/A     * CODES: *EACH VISIT *NOW USING CONTRACEPTION *
*TENN *          *1.YES, 2* *          *                          *
*          *      *.NO      *          *                          *

```

```

////////////////////////////////////
DATA ELEMENT:MARK IF NAME IS TO BE RECORDED          CODE:A108

```

```

*****
*STATE*FORM NO. * FORMAT *WHEN ENTERED *          COMMENTS          *
*****
*ALA./*NCHS      *          *          *DUES NOT COLLECT THIS DATA ITEM*
*FLA.*          *          *          *                          *
*GA.  *DPH/HIS  *          *          *DUES NOT COLLECT THIS DATA ITEM*
*(7)*55        *          *          *                          *
*KY.  *MCH=280  *          *          *DUES NOT COLLECT THIS DATA ITEM*
*MISS.* 208     *          *          *DUES NOT COLLECT THIS DATA ITEM*
*N.C. * 1457    *          *          *DUES NOT COLLECT THIS DATA ITEM*
*S.C. *DHEC 1618*SENSE  *EACH VISIT *          *
*          *      *MARK 1 *          *          *
*          *      *DIGIT  *          *          *
*TENN.*FHS 817  *          *          *DUES NOT COLLECT THIS DATA ITEM*
*PROP=* N/A     *          *          *DUES NOT COLLECT THIS DATA ITEM*
*TENN *          *          *          *

```

```

////////////////////////////////////
DATA ELEMENT:VISIT DR REPORT ONLY?          CODE:A109

```

```

*****
*STATE*FORM NO. * FORMAT *WHEN ENTERED *          COMMENTS          *
*****
*ALA./*NCHS      *          *          *DUES NOT COLLECT THIS DATA ITEM*
*FLA.*          *          *          *

```

```

*GA. *DPH/HIS * * * * *DUES NOT COLLECT THIS DATA ITEM*
* * * (7)-55 * * * * *
*KY. *MCH=280 * * * * *DUES NOT COLLECT THIS DATA ITEM*
*MISS.* 208 * * * * *DUES NOT COLLECT THIS DATA ITEM*
*N.C. * 1457 * * * * *DUES NOT COLLECT THIS DATA ITEM*
*S.C. *DHEC 1618 *SENSE *EACH VISIT *VISIT REPORT ONLY *
* * * * *MARK 1 * * * * *
* * * * *DIGIT * * * * *
*TENN.*FHS 817 * * * * *DUES NOT COLLECT THIS DATA ITEM*
*PROP=* N/A * * * * *DUES NOT COLLECT THIS DATA ITEM*
*TENN * * * * *

```

////////////////////////////////////

DATA ELEMENT: PATIENT TYPE CODE: A110

*STATE*FORM NO. * FORMAT *WHEN ENTERED * COMMENTS *

```

*ALA./ *NCHS * * * * *DUES NOT COLLECT THIS DATA ITEM*
*FLA. * * * * *
*GA. *DPH/HIS * * * * *DUES NOT COLLECT THIS DATA ITEM*
* * * (7)-55 * * * * *
*KY. *MCH=280 *1 DIGIT *EACH VISIT *PATIENT STATUS *
*MISS.* 208 * * * * *DUES NOT COLLECT THIS DATA ITEM*
*N.C. *145/ & *CODES 1 *NEW ADMISSION *1, NEW, 2, CONTINUATION (NEW TO *
* * *1458 *THRU 5 *OR RE- *SYSTEM), 3, RE-ADMISSION, 4, *
* * * *AND 0 *ADMISSION *TRANSFER, 5, POTENTIAL 0. *
* * * * * *CORRECTION *
*S.C. *DHEC 1618 *SENSE *EACH VISIT *NEW CONTINUING READMITTED *
* * * * *MARK * * * * *NEW BY TRANSFER DISCHARGED *
* * * * * *INFERTILITY *
*TENN.*FHS 817 * * * * *DUES NOT COLLECT THIS DATA ITEM*
*PROP=* N/A * * * * *DUES NOT COLLECT THIS DATA ITEM*
*TENN * * * * *

```

////////////////////////////////////

DATA ELEMENT: EDUCATIONAL SERVICES PROVIDED CODE: A111

*STATE*FORM NO. * FORMAT *WHEN ENTERED * COMMENTS *

```

*ALA./ *NCHS * * * * *DUES NOT COLLECT THIS DATA ITEM*
*FLA. * * * * *
*GA. *DPH/HIS * * * * *DUES NOT COLLECT THIS DATA ITEM*
* * * (7)-55 * * * * *
*KY. *MCH=280 * * * * *DUES NOT COLLECT THIS DATA ITEM*
*MISS.* 208 * * * * *DUES NOT COLLECT THIS DATA ITEM*

```

```

*N.C. * 1457 * * * * *DUES NOT COLLECT THIS DATA ITEM*
*S.C. *DHEC 1618*SENSE *EACH VISIT *COUNSELING HEALTH EDUCATION *
* * * * *MARK 1 * * * * *CLASS *
* * * * *DIGIT * * * * *
*TENN.*FHS 817 * * * * *DUES NOT COLLECT THIS DATA ITEM*
*PROP=* N/A * * * * *DUES NOT COLLECT THIS DATA ITEM*
*TENN * * * * *

```

```

////////////////////////////////////
DATA ELEMENT:ABNORMALITY IN EXAM CODE:A112

```

```

*****
*STATE*FORM NO. * FDRMAT *WHEN ENTERED * COMMENTS *
*****
*ALA./*NCHS * * * * *DUES NOT COLLECT THIS DATA ITEM*
*FLA. * * * * *
*GA. *DPH/HIS * * * * *DUES NOT COLLECT THIS DATA ITEM*
* *(7)-55 * * * * *
*KY. *MCH=280 * * * * *DUES NOT COLLECT THIS DATA ITEM*
*MISS.* 208 * * * * *DUES NOT COLLECT THIS DATA ITEM*
*N.C. * 1457 * * * * *DUES NOT COLLECT THIS DATA ITEM*
*S.C. *DHEC 1618*SENSE *EACH VISIT *PELVIC BREAST BLOOD *
* * * * *MARK 1 * * * * *PRESSURE *
* * * * *DIGIT * * * * *
*TENN.*FHS 817 * * * * *DUES NOT COLLECT THIS DATA ITEM*
*PROP=* N/A * * * * *DUES NOT COLLECT THIS DATA ITEM*
*TENN * * * * *

```

```

////////////////////////////////////
DATA ELEMENT:MONTHS OF CONTRACEPTIVE SUPPLIES GIVEN CODE:A113

```

```

*****
*STATE*FORM NO. * FORMAT *WHEN ENTERED * COMMENTS *
*****
*ALA./*NCHS * * * * *DUES NOT COLLECT THIS DATA ITEM*
*FLA. * * * * *
*GA. *DPH/HIS * * * * *DUES NOT COLLECT THIS DATA ITEM*
* *(7)-55 * * * * *
*KY. *MCH=280 * * * * *DUES NOT COLLECT THIS DATA ITEM*
*MISS.* 208 * * * * *DUES NOT COLLECT THIS DATA ITEM*
*N.C. * 1457 * * * * *DUES NOT COLLECT THIS DATA ITEM*
*S.C. *DHEC 1618*SENSE * * * * *
* * * * *MARK 1 * * * * *
* * * * *DIGIT * * * * *
*TENN.*FHS 817 * * * * *DUES NOT COLLECT THIS DATA ITEM*
*PROP=* N/A * * * * *DUES NOT COLLECT THIS DATA ITEM*
*TENN * * * * *

```

////////////////////////////////////
 DATA ELEMENT:AMERICAN INDIAN (RACE) CODE:A114

 *STATE*FORM NO. * FORMAT *WHEN ENTRED * COMMENTS *

 *ALA./*NCHS *CODE 3 * *RACE *
 FLA. * * * * *
 *GA. *DPH/HIS * * * *DUES NOT COLLECT THIS DATA ITEM*
 *(7)-55 * * * * *
 *KY. *MCH-280 *1 DIGIT *INITIAL *RACE *
 * * * *CODE 3 *INTAKE ONLY * *
 MISS. 208 * * * *DUES NOT COLLECT THIS DATA ITEM*
 N.C. 1457 *CODE 3 *NEW ADMISSION*RACE *
 * * * *OR RE=* * *
 * * * *ADMISSION * *
 *S.C.*DHEC 1618*SENSE *AS *RACE *
 * * * *MARK 1 *APPROPRIATE * *
 * * * *DIGIT * * *
 *TENN.*FHS 817 * * * *DUES NOT COLLECT THIS DATA ITEM*
 PROP= N/A *CODE 3 * *RACE *
 *TENN * * * * * *

////////////////////////////////////
 DATA ELEMENT:OTHER (RACE) CODE:A115

 *STATE*FORM NO. * FORMAT *WHEN ENTRED * COMMENTS *

 *ALA./*NCHS *CODE 4 * *RACE *
 FLA. * * * * *
 *GA. *DPH/HIS * * * *DUES NOT COLLECT THIS DATA ITEM*
 *(7)-55 * * * * *
 *KY. *MCH-280 *1 DIGIT *INITIAL *RACE *
 * * * *CODE 4 *INTAKE ONLY * *
 MISS. 208 *CODE 8 *NEW ADMISSION*RACE *
 * * * *OR RE=* * *
 * * * *ADMISSION * * *
 N.C. 1457 *CODE 4 *NEW ADMISSION*RACE *
 * * * *OR RE=* * *
 * * * *ADMISSION * * *
 *S.C.*DHEC 1618*SENSE *AS *RACE *
 * * * *MARK 1 *APPROPRIATE * *
 * * * *DIGIT * * *
 *TENN.*FHS 817 * * * *DUES NOT COLLECT THIS DATA ITEM*
 PROP= N/A *CODE 4 *EACH VISIT *RACE *
 *TENN * * * * * *

```

////////////////////////////////////
DATA ELEMENT:FINANCIAL STATUS                                CODE:A116
*****
*STATE*FORM NO. * FORMAT *WHEN ENTERED *                COMMENTS *
*****
*ALA./*NCHS      *CODE A *                               *AGENCY USE  AVERAGE WEEKLY *
*FLA. *          *      *                               *INCOME      *
*GA.  *DPH/HIS  *      *                               *DUES NOT COLLECT THIS DATA ITEM*
*      *(7)-55  *      *                               *
*KY.  *MCH=280  *1 DIGIT *ANNUAL *INCOME *
*      *        *      * *UPDATES *
*MISS,* 208     *      *                               *DUES NOT COLLECT THIS DATA ITEM*
*N.C. * 1457    *5 DIGITS*NEW ADMISSION *A.FAMILYS NET INCOME B.CODES: 1*
*      *        *      * *OR RE= *WEEKLY, 2-MONTHLY, 3-ANNUALLY,*
*      *        *      * *ADMISSION *4-REFUSED, 5-UNKNOWN *
*S.C. *DHEC 1618 *SENSE *AS *DIGITS 0 THRU 9 *
*      *        *MARK 1 *APPROPRIATE *
*      *        *DIGIT *
*TENN.*FHS 817 *      *                               *DUES NOT COLLECT THIS DATA ITEM*
*PROP=* N/A     *CODES 1 *EACH VISIT *INCOME *
*TENN *          *THRU 9 *

```

```

////////////////////////////////////
DATA ELEMENT:REASON FOR DISCHARGE                          CODE:A117
*****
*STATE*FORM NO. * FORMAT *WHEN ENTERED *                COMMENTS *
*****
*ALA./*NCHS      *      *                               *DUES NOT COLLECT THIS DATA ITEM*
*FLA. *          *      *                               *
*GA.  *DPH/HIS  *      *                               *DUES NOT COLLECT THIS DATA ITEM*
*      *(7)-55  *      *                               *
*KY.  *MCH=280  *      *                               *DUES NOT COLLECT THIS DATA ITEM*
*MISS,* 208     *      *                               *DUES NOT COLLECT THIS DATA ITEM*
*N.C. * 1458    *CODES 0 *EVERY VISIT *REASON FOR CLOSURE OF PATIENT: *
*      *        *THRU 9 -* *0.NOT CLOSED, 1.UNKNOWN, 2.MED. *
*      *        *1 DIGIT * *REASON, 3.PREG.(UNPLANNED), 4. *
*      *        *      * *PREG.(PLANNED), 5.PERSONAL, 6. *
*      *        *      * *DEATH, 7.STERILE, 8.MOVED, 9. *
*      *        *      * *OTHER *
*S.C. *DHEC 1618 *SENSE *WHEN *MOVED UNABLE TO CONTACT *
*      *        *MARK 1 *DISCHARGED *LUST INTEREST TRANSFERRED TO *
*      *        *DIGIT * *PRIVATE DOCTOR PREG. DESIRED *
*      *        *      * *TRANSFERRED TO OTHER AGENCY *
*      *        *      * *PREG. METHOD FAILURE MENOPAUSE *
*      *        *      * *PREG. OTHER FAILURE NOT *
*      *        *      * *SEXUALLY ACTIVE *
*TENN.*FHS 817 *      *                               *DUES NOT COLLECT THIS DATA ITEM*
*PROP=* N/A     *CODES 01 *WHEN *REASON NO NEXT VISIT: 01. *
*TENN *          *THRU 05, *DISCHARGED *UNINTERRUPTED PREG., 02.DESIRES *
*      *        *10,20,30 * *PREG., 03.MOVED, 04.TO PRIVATE *
*      *        *35,68, * *CARE, 05.TRANSIENT, 10.LOST *
*      *        *90,91 * *INTEREST, 20.DECEASED, 30. *
*      *        *      * *STERILE, 35.MENOPAUSE, 68. *
*      *        *      * *OTHER, 91.UNKNOWN *

```

////////////////////////////////////

DATA ELEMENT:DATE OF LAST DELIVERY CODE:A118

*STATE*FORM NO. * FORMAT *WHEN ENTERED * COMMENTS *

*ALA./*NCHS * * *DUES NOT COLLECT THIS DATA ITEM*
FLA. * * *

*GA.*DPH/HIS * * *DUES NOT COLLECT THIS DATA ITEM*
*(7)-55 * * *

*KY.*MCH-280 * * *DUES NOT COLLECT THIS DATA ITEM*

MISS. 208 * * *DUES NOT COLLECT THIS DATA ITEM*

N.C. 1457 * * *DUES NOT COLLECT THIS DATA ITEM*

*S.C.*DHEC 1618* * *DUES NOT COLLECT THIS DATA ITEM*

*TENN.*FHS 817 *NONE *NEW ADMISSION*MO, DA, YR. *
* * *OR *
* * *READMISSION * *

PROP- N/A * * *DUES NOT COLLECT THIS DATA ITEM*
*TENN * * *

////////////////////////////////////

DATA ELEMENT:NUMBER IN FAMILY CODE:A119

*STATE*FORM NO. * FORMAT *WHEN ENTERED * COMMENTS *

*ALA./*NCHS *CODE B * *AGENCY USE B. *
FLA. * * *

*GA.*DPH/HIS * * *DUES NOT COLLECT THIS DATA ITEM*
*(7)-55 * * *

*KY.*MCH-280 *1 DIGIT *ANNUAL UPDATE*NUMBER IN HOUSEHOLD *

MISS. 208 * * *DUES NOT COLLECT THIS DATA ITEM*

N.C. 1457 *2 DIGITS*NEW ADMISSION*NUMBER OF PEOPLE SUPPORTED BY *
* * *OR RE=*THIS INCOME *
* * *ADMISSION * *

*S.C.*DHEC 1618* * *DUES NOT COLLECT THIS DATA ITEM*

*TENN.*FHS 817 * * *DUES NOT COLLECT THIS DATA ITEM*

PROP- N/A * * *DUES NOT COLLECT THIS DATA ITEM*
*TENN * * *

////////////////////////////////////

DATA ELEMENT:MEDICAL HISTORY CODE:A120

```

*STATE*FORM NO. * FORMAT *WHEN ENTERED *          COMMENTS          *
*****
*ALA./*NCHS      *CODE B *          *SERVICES PROVIDED          *
*FLA.*          *      *          *          *          *
*GA.  *DPH/HIS  *      *          *DUES NOT COLLECT THIS DATA ITEM*
*(7)-55 *      *          *          *          *
*KY.  *MCH=280  *      *          *DUES NOT COLLECT THIS DATA ITEM*
*MISS.* 208    *      *          *DUES NOT COLLECT THIS DATA ITEM*
*N.C.* 1457   *      *          *DUES NOT COLLECT THIS DATA ITEM*
*S.C.*DHEC 1618*      *          *DUES NOT COLLECT THIS DATA ITEM*
*TENN.*FHS 817 *      *          *DUES NOT COLLECT THIS DATA ITEM*
*PROP=* N/A   *      *          *DUES NOT COLLECT THIS DATA ITEM*
*TENN *      *          *          *

```

```

////////////////////////////////////
DATA ELEMENT:REFERRED ELSEWHERE          CODE:A121

```

```

*****
*STATE*FORM NO. * FORMAT *WHEN ENTERED *          COMMENTS          *
*****
*ALA./*NCHS      *CODE 0 *EVERY VISIT *NONE ABORTION STERILIZATION*
*FLA.*          *THRU 5 *          * INFERTILITY OTHER MEDICAL *
*      *          *          *SOCIAL SERVICES          *
*GA.  *DPH/HIS  *      *          *DUES NOT COLLECT THIS DATA ITEM*
*(7)-55 *      *          *          *          *
*KY.  *MCH=280  *6 DIGITS*EACH VISIT *ASSOCIATE REFERRALS 0 NONE 1*
*      *          *CODE 0 *          *ABORTION 2 STERILIZATION 3 *
*      *          *THRU 5 *          *INFERTILITY SERVICES 4 OTHER *
*      *          *      *          *5 SOCIAL SERVICES          *
*MISS.* 208    *      *          *DUES NOT COLLECT THIS DATA ITEM*
*N.C.* 1458   *CODES 4 *EVERY VISIT *CONTR. SERVICE PROVIDED = *
*      *          *AND 5 *          *REFERRAL FOR: 4,ABORTION, 5. *
*      *          *      *          *STERIL.          *
*S.C.*DHEC 1618*SENSE *AS *INFERTILITY SERV. ABORTION *
*      *          *MARKS 1 *APPROPRIATE *OTHER MEDICAL SERVICE *
*      *          *DIGIT *          *STERILIZATION SOCIAL SERVICE *
*TENN.*FHS 817 *      *          *DUES NOT COLLECT THIS DATA ITEM*
*PROP=* N/A   *NONE *AS *REFERRAL; STERILIZATION, *
*TENN *      *          *APPROPRIATE *INFERTILITY, OTHER MEDICAL, *
*      *          *          *SOCIAL SERVICES, VOCATIONAL *
*      *          *          *REHAB., OTHER          *

```

```

////////////////////////////////////
DATA ELEMENT:MEXICAN AMERICAN (RACE)          CODE:A122

```

```

*****
*STATE*FORM NO. * FORMAT *WHEN ENTERED *          COMMENTS          *
*****
*ALA./*NCHS      *      *          *THIS DATA ITEM          *

```



```

*FLA. * * * *
*GA. *DPH/HIS * * *
*   *(7)-55 * * * *DUFS NOT COLLECT THIS DATA ITEM*
*   * * * * *
*KY. *MCH=280 *1 DIGIT *INITIAL *RACE *
*   * * *CODE 5 *INTAKE ONLY * *
*MISS.* 208 * * * *DUFS NOT COLLECT THIS DATA ITEM*
*N.C. * 1457 * * * *DUFS NOT COLLECT THIS DATA ITEM*
*S.C. *DHEC 1618* * * * * DATA ITEM *
*TENN.*FHS 817 * * * *DUFS NOT COLLECT THIS DATA ITEM*
*PROP=* N/A * * * *DUFS NOT COLLECT THIS DATA ITEM*
*TENN * * * * *

```

```

////////////////////////////////////
DATA ELEMENT:ORIENTAL (RACE) CODE:A123

```

```

*****
*STATE*FORM NO. * FORMAT *WHEN ENTERED * COMMENTS *
*****
*ALA./*NCHS * * * *DUFS NOT COLLECT THIS DATA ITEM*
*FLA.* * * * *
*GA. *DPH/HIS * * * *DUFS NOT COLLECT THIS DATA ITEM*
*   *(7)-55 * * * *
*KY. *MCH=280 *1 DIGIT *INITIAL *RACE *
*   * * *CODE 6 *INTAKE ONLY * *
*MISS.* 208 * * * *DUFS NOT COLLECT THIS DATA ITEM*
*N.C. * 1457 * * * *DUFS NOT COLLECT THIS DATA ITEM*
*S.C. *DHEC 1618* * * *DUFS NOT COLLECT THIS DATA ITEM*
*TENN.*FHS 817 * * * *DUFS NOT COLLECT THIS DATA ITEM*
*PROP=* N/A * * * *DUFS NOT COLLECT THIS DATA ITEM*
*TENN * * * * *

```

```

////////////////////////////////////
DATA ELEMENT:FIRST CLINIC VISIT REC. FORM SUBMITTED CAL. YR.? CODE:A124

```

```

*****
*STATE*FORM NO. * FORMAT *WHEN ENTERED * COMMENTS *
*****
*ALA./*NCHS * * * *DUFS NOT COLLECT THIS DATA ITEM*
*FLA.* * * * *
*GA. *DPH/HIS * * * *DUFS NOT COLLECT THIS DATA ITEM*
*   *(7)-55 * * * *
*KY. *MCH=280 *1 DIGIT *EACH VISIT *YES = COMPLETE SECTION "B & C" *
*   * * *CODE 1 * * * *NU = COMPLETE SECTION "C" ONLY *
*   * * *OR 2 * * * *
*MISS.* 208 * * * *DUFS NOT COLLECT THIS DATA ITEM*
*N.C. * 1457 * * * *DUFS NOT COLLECT THIS DATA ITEM*

```

```

*S.C. *DHEC 1618*      *      *      *DUES NOT COLLECT THIS DATA ITEM*
*TENN.*FHS 817 *      *      *DUES NOT COLLECT THIS DATA ITEM*
*PROP=* N/A *      *      *DUES NOT COLLECT THIS DATA ITEM*
*TENN *      *      *

```

```

////////////////////////////////////
DATA ELEMENT:CL. VISIT REC. FORM BEEN SUBMTD. SFPIS FOR PT.? CODE:A125

```

```

*****
*STATE*FORM NO. * FORMAT *WHEN ENTERED *          COMMENTS          *
*****
*ALA./*NCHS      *      *      *DUES NOT COLLECT THIS DATA ITEM*
*FLA. *      *      *
*GA. *DPH/HIS    *      *      *DUES NOT COLLECT THIS DATA ITEM*
*   *(7)-55      *      *
*KY. *MCH=280    *1 DIGIT *EACH VISIT *1. YES 2. NO = COMPLETE "A, B*
*   *      *CODE 1 *      *      *  , & "C" BELOW              *
*   *      *OR 2  *      *      *
*MISS.* 208      *      *      *DUES NOT COLLECT THIS DATA ITEM*
*N.C. * 1457     *      *      *DUES NOT COLLECT THIS DATA ITEM*
*S.C. *DHEC 1618*      *      *      *DUES NOT COLLECT THIS DATA ITEM*
*TENN.*FHS 817 *      *      *DUES NOT COLLECT THIS DATA ITEM*
*PROP=* N/A *      *      *DUES NOT COLLECT THIS DATA ITEM*
*TENN *      *      *

```

```

////////////////////////////////////
DATA ELEMENT:OCCUPATION CODE:A126

```

```

*****
*STATE*FORM NO. * FORMAT *WHEN ENTERED *          COMMENTS          *
*****
*ALA./*NCHS      *      *      *DUES NOT COLLECT THIS DATA ITEM*
*FLA. *      *      *
*GA. *DPH/HIS    *      *      *DUES NOT COLLECT THIS DATA ITEM*
*   *(7)-55      *      *
*KY. *MCH=280    *2 DIGITS*ANNUAL UPDATE*
*MISS.* 208      *      *      *DUES NOT COLLECT THIS DATA ITEM*
*N.C. * 1457     *      *      *DUES NOT COLLECT THIS DATA ITEM*
*S.C. *DHEC 1618*      *      *      *DUES NOT COLLECT THIS DATA ITEM*
*TENN.*FHS 817 *      *      *DUES NOT COLLECT THIS DATA ITEM*
*PROP=* N/A *      *      *DUES NOT COLLECT THIS DATA ITEM*
*TENN *      *      *

```

```

DATA ELEMENT:PROBLEM VISIT                                CODE:A127
*****
*STATE*FORM NO. * FORMAT *WHEN ENTERED *                COMMENTS *
*****
*ALA./*NCHS      *      *      *DUES NOT COLLECT THIS DATA ITEM*
*FLA.*          *      *      *
*GA.*DPH/HIS    *      *      *DUES NOT COLLECT THIS DATA ITEM*
*      *(7)-55   *      *      *
*KY.*MCH=280    *2 DIGITS*EACH VISIT *
*MISS.* 208     *      *      *DUES NOT COLLECT THIS DATA ITEM*
*N.C.* 1457     *      *      *DUES NOT COLLECT THIS DATA ITEM*
*S.C.*DHEC 161B* *      *      *DUES NOT COLLECT THIS DATA ITEM*
*TENN.*FHS 817 *      *      *DUES NOT COLLECT THIS DATA ITEM*
*PROP=* N/A     *      *      *DUES NOT COLLECT THIS DATA ITEM*
*TENN.*         *      *      *

```

```

////////////////////////////////////
DATA ELEMENT:VDRL                                        CODE:A128
*****
*STATE*FORM NO. * FORMAT *WHEN ENTERED *                COMMENTS *
*****
*ALA./*NCHS      *      *      *DUES NOT COLLECT THIS DATA ITEM*
*FLA.*          *      *      *
*GA.*DPH/HIS    *      *      *DUES NOT COLLECT THIS DATA ITEM*
*      *(7)-55   *      *      *
*KY.*MCH=280    *1 DIGIT *AS *TESTING *
*      *        *      *AS *APPROPRIATE *
*MISS.* 208     *      *      *DUES NOT COLLECT THIS DATA ITEM*
*N.C.* 1457     *      *      *DUES NOT COLLECT THIS DATA ITEM*
*S.C.*DHEC 161B* *      *      *DUES NOT COLLECT THIS DATA ITEM*
*TENN.*FHS 817 *      *      *DUES NOT COLLECT THIS DATA ITEM*
*PROP=* N/A     *NONE *AS *MEDICAL SERVICES *
*TENN.*         *      *AS *APPROPRIATE *

```

```

////////////////////////////////////
DATA ELEMENT:BLOOD TEST                                CODE:A129
*****
*STATE*FORM NO. * FORMAT *WHEN ENTERED *                COMMENTS *
*****
*ALA./*NCHS      *      *      *DUES NOT COLLECT THIS DATA ITEM*
*FLA.*          *      *      *
*GA.*DPH/HIS    *      *      *DUES NOT COLLECT THIS DATA ITEM*
*      *(7)-55   *      *      *

```

```

*KY. *MCH=280 *1 DIGIT *EACH VISIT *MEDICAL SERVICES (11 POSSIBLE*
* * * *CODE 8 * *DIGITS) *
*MISS.* 208 * * * *DUES NOT COLLECT THIS DATA ITEM*
*N.C. * 1458 * CODES: *EACH VISIT * *
* * * *0=NO, 1=* * * * *
* * * *YES * * * *
*S.C. *DHEC 1618* * * *DUES NOT COLLECT THIS DATA ITEM*
*TENN.*FHS 817 * * * *DUES NOT COLLECT THIS DATA ITEM*
*PROP=* N/A *NONE *AS *MEDICAL SERVICES *
*TENN * * * *APPROPRIATE *

```

////////////////////////////////////

DATA ELEMENT: NONE (ASSOCIATE REFERRAL) CODE: A130

```

*****
*STATE*FORM NO. * FORMAT *WHEN ENTERED * COMMENTS *
*****
*ALA./*NCHS * * * *DUES NOT COLLECT THIS DATA ITEM*
*FLA. * * * * *
*GA. *DPH/HIS * * * *DUES NOT COLLECT THIS DATA ITEM*
* * *(7)-55 * * * *
*KY. *MCH=280 *1 DIGIT * *ASSOCIATE REFERRAL (6 POSSIBLE *
* * * *CODE 0 * *DIGITS) *
*MISS.* 208 * * * *DUES NOT COLLECT THIS DATA ITEM*
*N.C. * 1457 * * * *DUES NOT COLLECT THIS DATA ITEM*
*S.C. *DHEC 1618* * * *DUES NOT COLLECT THIS DATA ITEM*
*TENN.*FHS 817 * * * *DUES NOT COLLECT THIS DATA ITEM*
*PROP=* N/A * * * *DUES NOT COLLECT THIS DATA ITEM*
*TENN * * * *

```

////////////////////////////////////

DATA ELEMENT: NONE (BEFORE THIS VISIT) CODE: A131

```

*****
*STATE*FORM NO. * FORMAT *WHEN ENTERED * COMMENTS *
*****
*ALA./*NCHS * * * *DUES NOT COLLECT THIS DATA ITEM*
*FLA. * * * * *
*GA. *DPH/HIS * * * *DUES NOT COLLECT THIS DATA ITEM*
* * *(7)-55 * * * *
*KY. *MCH=280 *1 DIGIT *EACH VISIT *LAST METHOD OF CONTRACEPTION *
* * * *CODE 9 * * * *
*MISS.* 208 * * * *DUES NOT COLLECT THIS DATA ITEM*
*N.C. * 1457 *CODE 00 *NEW ADMISSION*WHAT IS THE LAST METHOD YOU *
* * * *OR RE=* *USED *
* * * *ADMISSION * *
*S.C. *DHEC 1618* * * *DUES NOT COLLECT THIS DATA ITEM*

```

*TENN.*FHS 817 * * * * *DUES NOT COLLECT THIS DATA ITEM*

PROP= N/A * * * * *DUES NOT COLLECT THIS DATA ITEM*

*TENN * * * * *

////////////////////////////////////

DATA ELEMENT: OTHER (WHO PRESCRIBED LAST CONTRACEPTIVE METHOD? CODE: A132

*STATE*FORM NO. * FORMAT *WHEN ENTERED * COMMENTS *

*ALA./*NCHS * * * * *DUES NOT COLLECT THIS DATA ITEM*

*FLA. * * * * *

*GA. *DPH/HIS * * * * *DUES NOT COLLECT THIS DATA ITEM*

* * (7)-55 * * * * *

*KY. *MCH=280 *1 DIGIT *EACH VISIT *WHO PRESCRIBED OR DISPENSED *

* * * * *CODE 4 * * * * *LAST METHOD? *

MISS. 208 * * * * *DUES NOT COLLECT THIS DATA ITEM*

*N.C. * 1457 *CODE 4 *NEW ADMISSION*WHO PRESCRIBED THAT METHOD? *

* * * * *OR RE- * * * * *

* * * * *ADMISSION * * * * *

*S.C. *DHEC 1618* * * * *DUES NOT COLLECT THIS DATA ITEM*

*TENN.*FHS 817 * * * * *DUES NOT COLLECT THIS DATA ITEM*

PROP= N/A *CODE 4 *EACH VISIT *PRESCRIBED BY: *

*TENN * * * * *

////////////////////////////////////

DATA ELEMENT: SUPPLY ONLY CODE: A133

*STATE*FORM NO. * FORMAT *WHEN ENTERED * COMMENTS *

*ALA./*NCHS * * * * *DUES NOT COLLECT THIS DATA ITEM*

*FLA. * * * * *

*GA. *DPH/HIS * * * * *DUES NOT COLLECT THIS DATA ITEM*

* * (7)-55 * * * * *

*KY. *MCH=280 *1 DIGIT *EACH VISIT *PURPOSE OF NEXT APPOINTMENT *

* * * * *CODE 1 * * * * *

MISS. 208 * * * * *DUES NOT COLLECT THIS DATA ITEM*

*N.C. * 1457 * * * * *DUES NOT COLLECT THIS DATA ITEM*

*S.C. *DHEC 1618* * * * *DUES NOT COLLECT THIS DATA ITEM*

*TENN.*FHS 817 * * * * *DUES NOT COLLECT THIS DATA ITEM*

PROP= N/A * * * * *DUES NOT COLLECT THIS DATA ITEM*

*TENN * * * * *

////////////////////////////////////

DATA ELEMENT:PROGRAM CODE

CODE:A134

```

*****
*STATE*FORM NO. * FORMAT *WHEN ENTERED *          COMMENTS          *
*****
*ALA./*NCHS      *      *          *DUES NOT COLLECT THIS DATA ITEM*
*FLA.*          *      *          *
*GA.  *DPH/HIS  *      *          *DUES NOT COLLECT THIS DATA ITEM*
*      *(7)-55  *      *          *
*KY.  *MCH=280  *3 DIGITS*EACH VISIT *          *
*MISS.* 208    *      *          *DUES NOT COLLECT THIS DATA ITEM*
*N.C.* 1457    *      *          *DUES NOT COLLECT THIS DATA ITEM*
*S.C.*DHEC 1618*      *          *DUES NOT COLLECT THIS DATA ITEM*
*TENN.*FHS 817 *      *          *DUES NOT COLLECT THIS DATA ITEM*
*PROP-- N/A     *      *          *DUES NOT COLLECT THIS DATA ITEM*
*TENN *        *      *          *
    
```

//////////////////////////////////////
 DATA ELEMENT:PATIENT SEEN BY: CODE:A135

```

*****
*STATE*FORM NO. * FORMAT *WHEN ENTERED *          COMMENTS          *
*****
*ALA./*NCHS      *CODE C *          *AGENCY USE C.          *
*FLA.*          *      *          *
*GA.  *DPH/HIS  *      *          *DUES NOT COLLECT THIS DATA ITEM*
*      *(7)-55  *      *          *
*KY.  *MCH=280  *      *          *DUES NOT COLLECT THIS DATA ITEM*
*MISS.* 208    *CODES 1 *EVERY VISIT *1. PHYSICIAN, 2. RN ONLY, 3. LPN *
*      *      *THRU 6 *          *ONLY, 4. NURSE-MIDWIFE, 5. OTHER *
*      *      *      *          *PERSONNEL ONLY, 6. FP NURSE *
*      *      *      *          *PRACTITIONER *
*N.C.* 1457    *      *          *DUES NOT COLLECT THIS DATA ITEM*
*S.C.*DHEC 1618*      *          *DUES NOT COLLECT THIS DATA ITEM*
*      *      *      *          * PICKED UP ONLY AS CLINICIAN *
*      *      *      *          *CODE *
*TENN.*FHS 817 *CODES 1 *EVERY VISIT *1. PHYSICIAN 2. NURSE ONLY *
*      *      *THRU 4 *          *3. OTHER PERSONNEL ONLY 4. *
*      *      *      *          *NURSE PRACTITIONER *
*PROP-- N/A     *NONE     *AS *PHYSICIAN, P.H.N., F.P.N.P., *
*TENN *        *      *APPROPRIATE *NURSE/MIDWIFE, L.P.N., SOCIAL *
*      *      *      *          *SERVICES AIDE, CLERK, *
*      *      *      *          *NUTRITIONIST, OTHER *
    
```

//////////////////////////////////////
 DATA ELEMENT:CURRENT METHOD: CODE:A136

```

*****
*STATE*FORM NO. * FORMAT *WHEN ENTERED *          COMMENTS          *
*****
    
```

```

*ALA./*NCHS      *      *      *DUES NOT COLLECT THIS DATA ITEM*
*FLA. *          *      *
*GA.  *DPH/HIS  *      *      *DUES NOT COLLECT THIS DATA ITEM*
*      *(7)-55   *      *
*KY.  *MCH=280  *      *      *DUES NOT COLLECT THIS DATA ITEM*
*MISS.* 208     *      *
*N.C. * 1457    *      *      *DUES NOT COLLECT THIS DATA ITEM*
*S.C. *DHEC 1618*      *      *DUES NOT COLLECT THIS DATA ITEM*
*TENN.*FHS 817  *      *      *DUES NOT COLLECT THIS DATA ITEM*

*PROP=* N/A      *CODES 01*EACH VISIT *01.IUD, 02.PILL, 03.FOAM, 04. *
*TENN *          *THRU 07,*      *DIAPHRAGM, 05.CONDOM, 06.RHYTHM*
*      *          *09,10,11*      *, 07.INJECTION, 09.NONE, 10. *
*      *          *30 *          *METHOD "A", 11.METHOD "B", 30. *
*      *          *      *          *STERILIZATION *

```

```

////////////////////////////////////
DATA ELEMENT:HEART/LUNG                                CODE:A137

```

```

*****
*STATE*FORM NO. * FORMAT *WHEN ENTERED *      COMMENTS *
*****
*ALA./*NCHS      *      *      *DUES NOT COLLECT THIS DATA ITEM*
*FLA. *          *      *
*GA.  *DPH/HIS  *      *      *DUES NOT COLLECT THIS DATA ITEM*
*      *(7)-55   *      *
*KY.  *MCH=280  *      *      *DUES NOT COLLECT THIS DATA ITEM*
*MISS.* 208     *      *
*N.C. * 1458    *CODES 0 *EACH VISIT *HEART & LUNG EXAM: 0=NO, 1=MD, *
*      *          *THRU 3=*      *2=NURSE, 3=OTHR *
*      *          *1 DIGIT *      *
*S.C. *DHEC 1618*      *      *DUES NOT COLLECT THIS DATA ITEM*
*TENN.*          *      *      *DUES NOT COLLECT THIS DATA ITEM*
*PROP=* N/A      *NONE *EACH VISIT *MEDICAL SERVICES *
*TENN *          *      *

```

```

////////////////////////////////////
DATA ELEMENT:WET SMEARS                                CODE:A138

```

```

*****
*STATE*FORM NO. * FORMAT *WHEN ENTERED *      COMMENTS *
*****
*ALA./*NCHS      *      *      *DUES NOT COLLECT THIS DATA ITEM*
*FLA. *          *      *
*GA.  *DPH/HIS  *      *      *DUES NOT COLLECT THIS DATA ITEM*
*      *(7)-55   *      *
*KY.  *MCH=280  *      *      *DUES NOT COLLECT THIS DATA ITEM*
*MISS.* 208     *      *

```

```

*N.C. * 1458      * CODES: *EACH VISIT *VAGINAL SMEAR *
*      *          *O=NO * 1 *      *      *
*      *          *=YES *      *      *
*S.C. *DHEC 1618* *      *      *DUES NOT COLLECT THIS DATA ITEM*
*TENN.*FHS 617 *      *      *DUES NOT COLLECT THIS DATA ITEM*
*PROP=* N/A      *NONE *EACH VISIT *MEDICAL SERVICES *
*TENN *          *      *      *      *

```

```

////////////////////////////////////
DATA ELEMENT: PREGNANCY (COUNSELING)                                CODE: A139

```

```

*****
*STATE*FORM NO. * FORMAT *WHEN ENTERED *      COMMENTS *
*****
*ALA./*NCHS      *      *      *DUES NOT COLLECT THIS DATA ITEM*
*FLA.*          *      *      *      *
*GA. *DPH/HIS    *      *      *DUES NOT COLLECT THIS DATA ITEM*
*      *(7)=55    *      *      *      *
*KY. *MCH=280    *      *      *DUES NOT COLLECT THIS DATA ITEM*
*MISS.* 208      *      *      *DUES NOT COLLECT THIS DATA ITEM*
*N.C. * 1457     *      *      *DUES NOT COLLECT THIS DATA ITEM*
*S.C. *DHEC 1618* *      *      *DUES NOT COLLECT THIS DATA ITEM*
*TENN.*FHS 617 *      *      *DUES NOT COLLECT THIS DATA ITEM*
*PROP=* N/A      *NONE *EACH VISIT *COUNSELING *
*TENN *          *      *      *      *

```

```

////////////////////////////////////
DATA ELEMENT: PRENATAL (REASON FOR NEXT APPOINTMENT)              CODE: A140

```

```

*****
*STATE*FORM NO. * FORMAT *WHEN ENTERED *      COMMENTS *
*****
*ALA./*NCHS      *      *      *DUES NOT COLLECT THIS DATA ITEM*
*FLA.*          *      *      *      *
*GA. *DPH/HIS    *      *      *DUES NOT COLLECT THIS DATA ITEM*
*      *(7)=55    *      *      *      *
*KY. *MCH=280    *      *      *DUES NOT COLLECT THIS DATA ITEM*
*MISS.* 208      *      *      *DUES NOT COLLECT THIS DATA ITEM*
*N.C. * 1457     *      *      *DUES NOT COLLECT THIS DATA ITEM*
*S.C. *DHEC 1618* *      *      *DUES NOT COLLECT THIS DATA ITEM*
*TENN.*FHS 617 *      *      *DUES NOT COLLECT THIS DATA ITEM*
*PROP=* N/A      *CODE 5 *EACH VISIT *(REASON FOR NEXT VISIT) *
*TENN *          *      *      *      *

```


////////////////////////////////////

DATA ELEMENT:TYPE: (INV, CODE) CODE:A141

```

*****
*STATE*FORM NO. * FORMAT *WHEN ENTERED *          COMMENTS          *
*****
*ALA./*NCHS      *          *          *DUES NOT COLLECT THIS DATA ITEM*
*FLA. *          *          *          *
*GA.  *DPH/HIS  *          *          *DUES NOT COLLECT THIS DATA ITEM*
*      *(7)-55   *          *          *
*KY.  *MCH*280  *          *          *DUES NOT COLLECT THIS DATA ITEM*
*MISS.* 208     *          *          *DUES NOT COLLECT THIS DATA ITEM*
*N.C. * 1457    *          *          *DUES NOT COLLECT THIS DATA ITEM*
*S.C. *DHEC 1618*          *          *DUES NOT COLLECT THIS DATA ITEM*
*TENN.*FHS 817  *          *          *DUES NOT COLLECT THIS DATA ITEM*
*PROP=* N/A     *3 DIGITS*EACH VISIT * (INVOICE CODE)          *
*TENN *          *          *          *

```

////////////////////////////////////

DATA ELEMENT:AMOUNT: CODE:A142

```

*****
*STATE*FORM NO. * FORMAT *WHEN ENTERED *          COMMENTS          *
*****
*ALA./*NCHS      *          *          *DUES NOT COLLECT THIS DATA ITEM*
*FLA. *          *          *          *
*GA.  *DPH/HIS  *          *          *DUES NOT COLLECT THIS DATA ITEM*
*      *(7)-55   *          *          *
*KY.  *MCH*280  *          *          *DUES NOT COLLECT THIS DATA ITEM*
*MISS.* 208     *          *          *DUES NOT COLLECT THIS DATA ITEM*
*N.C. * 1457    *          *          *DUES NOT COLLECT THIS DATA ITEM*
*S.C. *DHEC 1618*          *          *DUES NOT COLLECT THIS DATA ITEM*
*TENN.*FHS 817  *          *          *DUES NOT COLLECT THIS DATA ITEM*
*PROP=* N/A     *1 DIGIT *EACH VISIT *          *
*TENN *          *          *          *

```

////////////////////////////////////

DATA ELEMENT: SECONDARY METHOD OF CONTRA, UNTIL NEXT VISIT CODE:A143

```

*****
*STATE*FORM NO. * FORMAT *WHEN ENTERED *          COMMENTS          *
*****
*ALA./*NCHS      *          *          *DUES NOT COLLECT THIS DATA ITEM*
*FLA. *          *          *          *
*GA.  *DPH/HIS  *          *          *DUES NOT COLLECT THIS DATA ITEM*
*      *(7)-55   *          *          *

```

```

*KY. *MCH=280 * * * * *
*MISS.* 208 * CODES: *EACH VISIT *
* * * * * 1-9,0,A *
* * * * * *
* * * * * *
* * * * * *
*N.C. * 1457 * * * * *
*S.C. *DHEC 1618* * * * *
*TENN.*FHS 817 * * * * *
*PROP=* N/A * * * * *
*TENN * * * * *

```

```

*DUES NOT COLLECT THIS DATA ITEM*
*1.IUD, 2.PILL, 3.FOAM, 4. *
*DIAPHRAGM, 5.CONDOM, 6. *
*INJECTION, 7.TUBAL LIGATION, 8.*
*OTHER, 9.UNKNOWN, 0.NONE, A. *
*VASECTOMY *

```

```

////////////////////////////////////
DATA ELEMENT:PROBLEMS OF METHOD OF F.P. CODE:A144

```

```

*****
*STATE*FORM NO. * FORMAT *WHEN ENTERED * COMMENTS *
*****
*ALA./*NCHS * * * * *
*FLA. * * * * *
*GA. *DPH/HIS * * * * *
* * *(7)-55 * * * * *
*KY. *MCH=280 * * * * *
*MISS.* 208 * CODES 01 *EACH VISIT *
* * * * * THRU 15, *
* * * * * 00 *
* * * * * *
* * * * * *
* * * * * *
* * * * * *
* * * * * *
* * * * * *
* * * * * *
*N.C. * 1458 * CODES 0 *EACH VISIT *
* * * * * THRU 9 *
* * * * * *
* * * * * *
* * * * * *
* * * * * *
*S.C. *DHEC 1618* * * * *
*TENN.*FHS 817 * * * * *
*PROP=* N/A * * * * *
*TENN * * * * *

```

```

*DUES NOT COLLECT THIS DATA ITEM*
*
*DUES NOT COLLECT THIS DATA ITEM*
*
*DUES NOT COLLECT THIS DATA ITEM*
*
*01.THROMBOPHLEBITIS, 02. *
*PREGNANCY, 03.NAUSEA, 04.WEIGHT *
*GAIN, 05.HFADACHES, 06. *
*INFECTION, 07.FXPULSION, 08. *
*PAIN, 09.ALLERGIES, 10. *
*IRRITATION, 11.SPOTTING, 12. *
*INCREASED MENSTRUATION, 13. *
*DECREASED MENSTRUATION, 14. *
*PSYCHOLOGICAL, 00.NONE *

```

```

*COMPLICATIONS DUE TO METHOD: 0.*
*NONE, 1.PREGNANCY, 2.BLEEDING, *
*3.PHLEBITIS, 4.PAIN/CRAMPS, 5. *
*PERFORATION, 6.EXPULSION, 7. *
*FREQUENT HFADACHES &DIZZINESS, *
*8.OTHER MEDICAL, 9.OTHER *

```

```

////////////////////////////////////
DATA ELEMENT:PURPOSE OF VISIT CODE:A145

```

```

*****
*STATE*FORM NO. * FORMAT *WHEN ENTERED * COMMENTS *
*****
*ALA./*NCHS * * * * *
*FLA. * * * * *

```

```

*DUES NOT COLLECT THIS DATA ITEM*

```

```

*GA. *DPH/HIS * * * *DUES NOT COLLECT THIS DATA ITEM*
* * (7)-55 * * * *
*KY. *MCH=280 * * * *DUES NOT COLLECT THIS DATA ITEM*
*MISS.* 208 *CODES 1 *EACH VISIT *1.FP SERVICES(CONTRACEPTION), 2*
* * * *THRU 5 * * * * *COMPLICATIONS OF FP, 3. *
* * * * *QUESTIONABLE PREGNANCY, 4. *
* * * * *INFERTILITY, 5.OTHER(SPECIFY) *
*N.C. * 1457 * * * *DUES NOT COLLECT THIS DATA ITEM*
*S.C. *DHEC 1618* * * *DUES NOT COLLECT THIS DATA ITEM*
*TENN.*FHS 817 * * * *DUES NOT COLLECT THIS DATA ITEM*
*PROP=* N/A * * * *DUES NOT COLLECT THIS DATA ITEM*
*TENN * * * *

```

////////////////////////////////////

DATA ELEMENT:SERVICE SITE NUMBER CODE:A146

```

*****
*STATE*FORM NO. * FORMAT *WHEN ENTERED * COMMENTS *
*****
*ALA./*NCHS * * * *DUES NOT COLLECT THIS DATA ITEM*
*FLA. * * * *
*GA. *DPH/HIS * * * *DUES NOT COLLECT THIS DATA ITEM*
* * (7)-55 * * * *
*KY. *MCH=280 * * * *DUES NOT COLLECT THIS DATA ITEM*
*MISS.* 208 * * * *DUES NOT COLLECT THIS DATA ITEM*
*N.C. *1457,1458*5 DIGITS*EACH VISIT * *
*S.C. *DHEC 1618* * * *DUES NOT COLLECT THIS DATA ITEM*
*TENN.*FHS 817 * * * *DUES NOT COLLECT THIS DATA ITEM*
*PROP=* N/A * * * *DUES NOT COLLECT THIS DATA ITEM*
*TENN * * * *

```

////////////////////////////////////

DATA ELEMENT:SERVICE SITE LAST VISITED CODE:A147

```

*****
*STATE*FORM NO. * FORMAT *WHEN ENTERED * COMMENTS *
*****
*ALA./*NCHS * * * *DUES NOT COLLECT THIS DATA ITEM*
*FLA. * * * *
*GA. *DPH/HIS * * * *DUES NOT COLLECT THIS DATA ITEM*
* * (7)-55 * * * *
*KY. *MCH=280 * * * *DUES NOT COLLECT THIS DATA ITEM*
*MISS.* 208 * * * *DUES NOT COLLECT THIS DATA ITEM*
*N.C. * 1458 *5 DIGITS*EACH VISIT * *
*S.C. *DHEC 1618* * * *DUES NOT COLLECT THIS DATA ITEM*
*TENN.*FHS 817 * * * *DUES NOT COLLECT THIS DATA ITEM*

```

PROP= N/A * * *DUES NOT COLLECT THIS DATA ITEM*
*TENN * * *

////////////////////////////////////
DATA ELEMENT:PLACE OF NEXT APPT.(ENTER SERV, SITE NO.) CODE:A148

*STATE*FORM NO. * FORMAT *WHEN ENTERED * COMMENTS *

*ALA./*NCHS * * *DUES NOT COLLECT THIS DATA ITEM*
FLA. * * *
*GA.*DPH/HIS * * *DUES NOT COLLECT THIS DATA ITEM*
* * (7)-55 * * *
*KY.*MCH=280 * * *DUES NOT COLLECT THIS DATA ITEM*
MISS. 208 * * *DUES NOT COLLECT THIS DATA ITEM*
N.C. 1458 *5 DIGITS*EACH VISIT * *
*S.C.*DHEC 1618* * *DUES NOT COLLECT THIS DATA ITEM*
*TENN.*FHS 817 * * *DUES NOT COLLECT THIS DATA ITEM*
PROP= N/A * * *DUES NOT COLLECT THIS DATA ITEM*
*TENN * * *

////////////////////////////////////
DATA ELEMENT:FURMER AFDC RECIPIENT ENTER DSS CASE OR ACCT. NO CODE:A149

*STATE*FORM NO. * FORMAT *WHEN ENTERED * COMMENTS *

*ALA./*NCHS * * *DUES NOT COLLECT THIS DATA ITEM*
FLA. * * *
*GA.*DPH/HIS * * *DUES NOT COLLECT THIS DATA ITEM*
* * (7)-55 * * *
*KY.*MCH=280 * * *DUES NOT COLLECT THIS DATA ITEM*
MISS. 208 * * *DUES NOT COLLECT THIS DATA ITEM*
N.C. 1458 *10 *EACH VISIT * *
* * *DIGITS * * *
*S.C.*DHEC 1618* * *DUES NOT COLLECT THIS DATA ITEM*
*TENN.*FHS 817 * * *DUES NOT COLLECT THIS DATA ITEM*
PROP= N/A * * *DUES NOT COLLECT THIS DATA ITEM*
*TENN * * *

////////////////////////////////////
DATA ELEMENT:NUMBER OF INDUCED ABORTIONS CODE:A150

```

*STATE*FORM NO. * FORMAT *WHEN ENTERED *          COMMENTS          *
*****
*ALA./*NCHS      *          *          *DUES NOT COLLECT THIS DATA ITEM*
*FLA.*          *          *          *
*GA.  *DPH/HIS  *          *          *DUES NOT COLLECT THIS DATA ITEM*
*      *(7)-55   *          *          *
*KY.  *MCH=280  *          *          *DUES NOT COLLECT THIS DATA ITEM*
*MISS.* 208     *          *          *DUES NOT COLLECT THIS DATA ITEM*
*N.C. * 1457    *1 DIGIT *NEW ADMISSION*          *
*      *      *          *OR RE=          *          *
*      *      *          *ADMISSION  *          *
*S.C. *DHEC 1618*          *          *DUES NOT COLLECT THIS DATA ITEM*
*TENN.*FHS 817  *          *          *DUES NOT COLLECT THIS DATA ITEM*
*PROP=* N/A     *          *          *DUES NOT COLLECT THIS DATA ITEM*
*TENN *          *          *

```

////////////////////////////////////

DATA ELEMENT:DATE FIRST VISIT TO F.P. SERVICE SITE CODE:A151

```

*****
*STATE*FORM NO. * FORMAT *WHEN ENTERED *          COMMENTS          *
*****
*ALA./*NCHS      *          *          *DUES NOT COLLECT THIS DATA ITEM*
*FLA.*          *          *          *
*GA.  *DPH/HIS  *          *          *DUES NOT COLLECT THIS DATA ITEM*
*      *(7)-55   *          *          *
*KY.  *MCH=280  *          *          *DUES NOT COLLECT THIS DATA ITEM*
*MISS.* 208     *          *          *DUES NOT COLLECT THIS DATA ITEM*
*N.C. * 1457    *6 DIGITS*NEW ADMISSION*MU/DA/YR *
*      *      *          *OR RE=          *          *
*      *      *          *ADMISSION  *          *
*S.C. *DHEC 1618*          *          *DUES NOT COLLECT THIS DATA ITEM*
*TENN.*FHS 817  *          *          *DUES NOT COLLECT THIS DATA ITEM*
*PROP=* N/A     *          *          *DUES NOT COLLECT THIS DATA ITEM*
*TENN *          *          *

```

////////////////////////////////////

DATA ELEMENT:MODEL CITY NUMBER CODE:A152

```

*****
*STATE*FORM NO. * FORMAT *WHEN ENTERED *          COMMENTS          *
*****
*ALA./*NCHS      *          *          *DUES NOT COLLECT THIS DATA ITEM*
*FLA.*          *          *          *
*GA.  *DPH/HIS  *          *          *DUES NOT COLLECT THIS DATA ITEM*
*      *(7)-55   *          *          *
*KY.  *MCH=280  *          *          *DUES NOT COLLECT THIS DATA ITEM*

```

```

*MISS,* 208      *          *          *DUES NOT COLLECT THIS DATA ITEM*
*N.C.* 1457     *3 DIGITS *NEW ADMISSION*OPTIONAL      *
*          *          *          *OR RE=          *          *
*          *          *          *ADMISSION  *          *
*S.C.*DHEC 1618*          *          *DUES NOT COLLECT THIS DATA ITEM*
*TENN,*FHS 817 *          *          *DUES NOT COLLECT THIS DATA ITEM*
*PROP=* N/A     *          *          *DUES NOT COLLECT THIS DATA ITEM*
*TENN *          *          *          *

```

////////////////////////////////////

DATA ELEMENT:STAFF NUMBER CODE:A153

```

*****
*STATE*FORM NO. * FORMAT *WHEN ENTERED *          COMMENTS          *
*****

```

```

*ALA./*NCHS    *          *          *DUES NOT COLLECT THIS DATA ITEM*
*FLA.*          *          *          *
*GA.*DPH/HIS   *          *          *DUES NOT COLLECT THIS DATA ITEM*
*          *(7)-55 *          *          *
*KY.*MCH=280   *          *          *DUES NOT COLLECT THIS DATA ITEM*
*MISS,* 208    *          *          *DUES NOT COLLECT THIS DATA ITEM*
*N.C.* 1457     *4 DIGITS *NEW ADMISSION*OPTIONAL      *
*          *          *          *OR RE=          *          *
*          *          *          *ADMISSION  *          *
*S.C.*DHEC 1618*          *          *DUES NOT COLLECT THIS DATA ITEM*
*TENN,*FHS 817 *          *          *DUES NOT COLLECT THIS DATA ITEM*
*PROP=* N/A     *          *          *DUES NOT COLLECT THIS DATA ITEM*
*TENN *          *          *          *

```

////////////////////////////////////

DATA ELEMENT:NAME,ADDR, SOMEONE ALWAYS KNOWING PATIENT'S ADDR CODE:A154

```

*****
*STATE*FORM NO. * FORMAT *WHEN ENTERED *          COMMENTS          *
*****

```

```

*ALA./*NCHS    *          *          *DUES NOT COLLECT THIS DATA ITEM*
*FLA.*          *          *          *
*GA.*DPH/HIS   *          *          *DUES NOT COLLECT THIS DATA ITEM*
*          *(7)-55 *          *          *
*KY.*MCH=280   *          *          *DUES NOT COLLECT THIS DATA ITEM*
*MISS,* 208    *          *          *DUES NOT COLLECT THIS DATA ITEM*
*N.C.* 1457     *NONE    *NEW ADMISSION*          *
*          *          *          *OR RE=          *          *
*          *          *          *ADMISSION  *          *
*S.C.*DHEC 1618*          *          *DUES NOT COLLECT THIS DATA ITEM*
*TENN,*FHS 817 *          *          *DUES NOT COLLECT THIS DATA ITEM*

```

PRDP= N/A * * * *DUES NOT COLLECT THIS DATA ITEM*
 *TENN * * * *

////////////////////////////////////

DATA ELEMENT:THEIR TELFFPHONE NUMBER CODE:A155

*STATE*FORM NO. * FORMAT *WHEN ENTERED * COMMENTS *

*ALA./*NCHS	*	*	*DUES NOT COLLECT THIS DATA ITEM*
*FLA. *	*	*	*
*GA. *DPH/HIS	*	*	*DUES NOT COLLECT THIS DATA ITEM*
* * (7)-55	*	*	*
*KY. *MCH=280	*	*	*DUES NOT COLLECT THIS DATA ITEM*
MISS. 208	*	*	*DUES NOT COLLECT THIS DATA ITEM*
*N.C. * 1457	*NONE	*NEW ADMISSION*REFERS TO A154	*
* * *	*	*OR RE=	*
* * *	*	*ADMISSION	*
*S.C. *DHEC 1618*	*	*	*DUES NOT COLLECT THIS DATA ITEM*
*TENN.*FHS 817	*	*	*DUES NOT COLLECT THIS DATA ITEM*
PRDP= N/A	*	*	*DUES NOT COLLECT THIS DATA ITEM*
*TENN *	*	*	*

////////////////////////////////////

DATA ELEMENT:LOCAL USE CODE:A156

*STATE*FORM NO. * FORMAT *WHEN ENTERED * COMMENTS *

*ALA./*NCHS	*	*	*DUES NOT COLLECT THIS DATA ITEM*
*FLA. *	*	*	*
*GA. *DPH/HIS	*	*	*DUES NOT COLLECT THIS DATA ITEM*
* * (7)-55	*	*	*
*KY. *MCH=280	*	*	*DUES NOT COLLECT THIS DATA ITEM*
MISS. 208	*	*	*DUES NOT COLLECT THIS DATA ITEM*
*N.C. *1457,1458*3 DIGITS	*NEW ADMISSION*	*	*
* * *	*OR RE=	*	*
* * *	*ADMISSION	*	*
*S.C. *DHEC 1618*	*	*	*DUES NOT COLLECT THIS DATA ITEM*
*TENN.*FHS 817	*	*	*DUES NOT COLLECT THIS DATA ITEM*
PRDP= N/A	*	*	*DUES NOT COLLECT THIS DATA ITEM*
*TENN *	*	*	*

////////////////////////////////////

<u>Field Location</u> (Bytes)	<u>Field Name</u>	<u>No. of Bytes</u>
066 - 066	Purpose of Next Appointment	1
067 - 067	"Has a record ever been submitted to NCHS for this patient?"	1
068 - 068	"Is this the first record submitted for this patient this year?"	1
069 - 079	Pregnancy History:	
069 - 070	No. of Live Births	2
071	No. of Fetal Deaths	1
072 - 073	No. of Children Now Living	2
074 - 079	Date of Last Pregnancy Term.	6
080 - 081	Welfare Status:	
080	Receiving Public Assistance?	1
081	Registered for Medicaid	1
082 - 083	Education	2
084 - 084	Latin-American Origin or Descent	1
085 - 085	Race	1
086 - 086	Sex	1
087 - 087	Source of Referral	1
088 - 091	Contraceptive History:	
088	Ever Used Any Method	1
089	Currently Using a Method	1
090	Last Method Used	1
091	Who Prescribed Last Method	1
092 - 092	Average Family Weekly Income	1
093 - 094	No. In Family	2
095 - 107	Medicaid Number	13
108 - 108	Patient Seen By	1
109 - 118	Blank Field (for expansion)	10

Patient Master File

<u>Field Location</u> <u>(Bytes)</u>	<u>Field Name</u>	<u>No. of Bytes</u>
001 - 017	Patient Identification	
001 - 002	District No.	2
003 - 004	County No.	2
005 - 008	Clinic No.	4
009 - 017	Patient No.	9
018 - 026	Social Security No.	9
027 - 032	Date of Birth	6
033 - 038	Date of Most Recent Clinic Visit	6
039 - 039	Contraceptive Method	1
040 - 043	Next Appointment Date (Mo-Yr)	4
044 - 055	Pregnancy History:	
044 - 049	Date of Last Preg. Term.	6
050 - 051	No. of Live Births	2
052 - 053	No. of Fetal Deaths	2
054 - 055	No. of Children Now Living	2
056 - 057	Welfare Status:	
056	Receiving Public Assistance	1
057	Registered for Medicaid	1
058 - 059	Education	2
060 - 060	Latin-Amer. Origin or Descent	1
061 - 061	Race	1
062 - 062	Sex	1
063 - 063	Source of Referral	1
064 - 067	Contraceptive History:	
064	Ever Used a Method	1
065	Currently Using a Method	1
066	Last Method Used	1
067	Who Prescribed Last Method	1
068 - 080	Medicaid Number	13
081 - 083	Income Status:	
081	Average Weekly Income	1
082 - 083	No. In Family	2

<u>Field Location</u> <u>(Bytes)</u>	<u>Field Name</u>	<u>No. of Bytes</u>
084 - 084	Status (Active-Inactive-Terminated)	1
085 - 085	Termination Reason	1
086 - 089	Termination Date	4
090 - 099	Blank (for future expansion)	10

Master Name/Address File

<u>Field Location (Bytes)</u>	<u>Field Name</u>	<u>No. of Bytes</u>
001 - 017	Patient Identification	
001 - 002	District No.	2
003 - 004	County No.	2
005 - 008	Clinic No.	4
009 - 017	Patient No.	9
018 - 027	First Name	10
028 - 041	Middle Name	14
042 - 055	Last Name	14
056 - 069	Maiden Name	14
070 - 089	Street Address	20
090 - 101	City	12
102 - 104	State	3
105 - 109	Zip Code	5
110 - 116	Telephone Number	7

<u>Field Location</u> <u>(Bytes)</u>	<u>Field Name</u>	<u>No. of Bytes</u>
001 - 001	Filler	1
002 - 010	State Assigned Number	9
011 - 012	State Assigned Number Check Letters	2
013 - 017	Maiden Last Name Soundex	5
018 - 019	First Name Soundex	2
020 - 020	Race	1
021 - 021	Sex	1
022 - 027	Date of Birth	6
028 - 032	Current Last Name Soundex	5
033 - 037	City of Birth Soundex	5
038 - 039	State of Birth	2
040 - 048	Social Security Number	9
049 - 050	Social Security Number Check Letters	2
051 - 060	Special Agency Number	10
061 - 061	AFDC Classification Code	1
062 - 065	AFDC Classification Date	4
066 - 067	Filler	2
068 - 080	Medicaid Services	
068	Blood Pressure	1
069	Brest Exam	1
070	Pap Smear	1
071	G & C	1
072	Pelvic Exam	1
073	Urinalysis	1
074	Hematocrit	1
075	VDRL	1
076	String Check	1
077	Sterilization	1
078	Other	1
079	Pregnancy Test	1
080	Vaginitis R _x	1
081 - 081	Filler	1
082 - 087	Counseling Services	
082	Social Services	1
083	Contraception	1
084	Sterilization	1

<u>Field Location</u> (Bytes)	<u>Field Name</u>	<u>No. of Bytes</u>
085	Abortion	1
086	Infertility	1
087	Other	1
088 - 089	Filler	2
090 - 094	Purpose of Next Appointment	
090	Supply	1
091	Annual Exam	1
092	Medical	1
093	Other	1
094	None	1
095 - 100	Referred for:	
095	Social Services	1
096	Medical Problem	1
097	Sterilization	1
098	Abortion	1
099	Infertility	1
100	Other	1
101 - 101	Record Identifier	1
102 - 107	Date of Visit	6
108 - 115	Form Sequence Number	8
116 - 122	Visit Location	
116 - 118	County	3
119 - 120	Clinic	2
120 - 122	Clinic Type	2
123 - 133	Pregnancy History	
123	No Change/Never Pregnant	1
124 - 125	Number of Living Children	2
126 - 127	Total Miscarriages, Abortions & Still Births	2
128 - 133	Date Last Pregnancy Ended	6
134 - 141	Method Last Used:	
134	Method #1	1
135	Presently Using Method #1?	1
136 - 139	Month & Year if Method #1 Stopped	4
140	Present Method #1 Prescribed by?	1
141	Method #2 (Back up)	1

<u>Field Location</u> (Bytes)	<u>Field Name</u>	<u>No. of Bytes</u>
142 - 142	Filler	1
143 - 147	Method(s) Prescribed at this Visit:	
143	Method #1	1
144 - 145	# Cycles of Pills Dispensed	2
146	Reason if <u>None</u> Marked Under Method #1	1
147	Method #2 (Back up)	1
148 - 148	Pap Results	1
149 - 152	Medical/Nursing Services	4
153 - 154	Counseling Services	2
155 - 156	Purpose of Next Appointment	2
157 - 160	Date of Next Appointment	4
161 - 162	Referred Elsewhere for Services	2
163 - 167	Referred to:	
163 - 165	County	3
166 - 167	Clinic Bldg. #	2
168 - 168	Filler	1
169 - 171	County of Residence	3
172 - 176	Census Tract Code	5
177 - 178	Years of School	2
179 - 179	Been Married?	1
180 - 180	Current Marital Status	1
181 - 190	Vendor # of Pathologist Recoding Pap Smear	10
191 - 196	Filler	6
197 - 197	AFDC Status Code (Special Studies Box of)	1
198 - 198	Filler	1
199 - 199	Appointment Status 1	1
200 - 200	Appointment Status 2	1

<u>Field Location</u> <u>(Bytes)</u>	<u>Field Name</u>	<u>No. of Bytes</u>
101 - 101	Record Identifier	1
102 - 107	Date of Visit	6
108 - 115	Form Sequence #	8
116 - 121	Special Studies Line # 1	6
122 - 127	Special Studies Line # 2	6
128 - 133	Special Studies Line # 3	6
134 - 139	Special Studies Line # 4	6
140 - 145	Special Studies Line # 5	6
146 - 151	Special Studies Line # 6	6
152 - 200	Filler	49
		<hr/> 100

KENTUCKY * * * * * Master File * * * * * KENTUCKY

<u>Field Location (Bytes)</u>	<u>Field Name</u>	<u>No. of Bytes</u>
001 - 003	Region	3
004 - 006	County	3
007 - 010	Clinic No.	4
011 - 019	Social Security Number	9
020 - 025	<u>Current Date of Entry</u>	
020 - 021	Year	2
022 - 023	Month	2
024 - 025	Day	2
026 - 027	Age of Entry	2
028 - 033	<u>Birth Date</u>	
028 - 029	Year	2
030 - 031	Month	2
032 - 033	Day	2
034 - 034	Status	1
035 - 035	Filler	1
036 - 037	Disposition	2
038 - 039	Referral Source	2
040 - 040	Race	1
041 - 041	Sex	1
042 - 043	Education	2
044 - 051	<u>Payors</u>	
044 - 045	Public Assistance	2
046 - 047	Medicaid	2
048 - 051	Filler	4
052 - 052	Income	1
053 - 054	# In Household	2
055 - 059	<u>Residence</u>	
055 - 056	State	2
057 - 059	County	3
060 - 060	Marital Status	1

<u>Field Location (Bytes)</u>	<u>Field Name</u>	<u>No. of Bytes</u>
061 - 063	Filler	3
064 - 065	Current Occupation	2
066 - 067	<u>Contraception</u>	
066	Last	1
067	Current	1
068 - 068	Interim	1
069 - 069	Who Referred	1
070 - 070	Have Ever	1
071 - 076	<u>Date of Pap</u>	
071 - 072	Year	2
073 - 074	Month	2
075 - 076	Day	2
077 - 077	Result	1
078 - 083	<u>Date of VDRL</u>	
078 - 079	Year	2
080 - 081	Month	2
082 - 083	Day	2
084 - 084	Result	1
085 - 090	<u>Date of GC</u>	
085 - 086	Year	2
087 - 088	Month	2
089 - 090	Day	2
091 - 091	Result	1
092 - 097	<u>Date Pregnancy Test</u>	
092 - 093	Year	2
094 - 095	Month	2
096 - 097	Day	2
098 - 098	Result	1
099 - 099	Outcome of Pregnancy	1
100 - 100	Unplanned	1
101 - 101	Pregnancies	1

<u>Field Location (Bytes)</u>	<u>Field Name</u>	<u>No. of Bytes</u>
102 - 107	<u>Date of Delivery</u>	
102 - 103	Year	2
104 - 105	Month	2
106 - 107	Day	2
108 - 108	# Live Births	1
109 - 109	# Fetal Deaths	1
110 - 110	# Children Living	1
111 - 113	Filler	3
114 - 033	<u>Name</u>	
114 - 125	Last	12
126 - 132	First	7
133 - 133	MI	1
134 - 136	Program Code	3
137 - 137	First Visit	1
138 - 138	Latin American	1
139 - 139	Reason for No Code	1
140 - 140	Filler	1
FIRST EPISODE		
141 - 146	<u>Date of Intake</u>	
141 - 142	Year	2
143 - 144	Month	2
145 - 146	Day	2
147 - 152	<u>Date of Termination</u>	
147 - 148	Year	2
149 - 150	Month	2
151 - 152	Day	2
153 - 154	Disposition	2
155 - 157	Length of Stay	3
158 - 159	Referral Source	2
160 - 167	Filler	8

<u>Field Location</u> (Bytes)	<u>Field Name</u>	<u>No. of Bytes</u>
SECOND EPISODE		
168 - 173	<u>Date of Intake</u>	
168 - 169	Year	2
170 - 171	Month	2
172 - 173	Day	2
174 - 179	<u>Date of Termination</u>	
174 - 175	Year	2
176 - 177	Month	2
178 - 179	Day	2
180 - 181	Disposition	2
182 - 184	Length of Stay	3
185 - 186	Referral Source	2
187 - 194	Filler	8
THIRD EPISODE		
195 - 200	<u>Date of Intake</u>	
195 - 196	Year	2
197 - 198	Month	2
199 - 200	Day	2
201 - 206	<u>Date of Termination</u>	
201 - 202	Year	2
203 - 204	Month	2
205 - 206	Day	2
207 - 208	Disposition	2
209 - 211	Length of Stay	3
212 - 213	Referral Source	2
214 - 221	Filler	8
FOURTH EPISODE		
222 - 227	<u>Date of Intake</u>	
222 - 223	Year	2
224 - 225	Month	2
226 - 227	Day	2

<u>Field Location (Bytes)</u>	<u>Field Name</u>	<u>No. of Bytes</u>
228 - 233	<u>Date of Termination</u>	
228 - 229	Year	2
230 - 231	Month	2
232 - 233	Day	2
234 - 235	Disposition	2
236 - 238	Length of Stay	3
239 - 240	Referral Source	2
241 - 248	Filler	8
FIFTH EPISODE		
249 - 254	<u>Date of Intake</u>	
249 - 250	Year	2
251 - 252	Month	2
253 - 254	Day	2
255 - 260	<u>Date of Termination</u>	
255 - 256	Year	2
257 - 258	Month	2
259 - 260	Day	2
261 - 262	Disposition	2
263 - 265	Length of Stay	3
266 - 267	Referral Source	2
268 - 275	Filler	8
CURRENT EPISODE		
276 - 281	<u>Date of Intake</u>	
276 - 277	Year	2
278 - 279	Month	2
280 - 281	Day	2
282 - 287	<u>Date of Termination</u>	
282 - 283	Year	2
284 - 285	Month	2
286 - 287	Day	2
288 - 289	Disposition	2

<u>Field Location (Bytes)</u>	<u>Field Name</u>	<u>No. of Bytes</u>
290 - 292	Length of Stay	3
293 - 294	Referral Source	2
295 - 302	Filler	8
303 - 308	<u>Date of Next Appointment</u>	
303 - 304	Year	2
305 - 306	Month	2
307 - 308	Day	2
309 - 315	<u>Sickle Cell</u>	
309	Result	1
310 - 311	Year	2
312 - 313	Month	2
314 - 315	Day	2
316 - 321	<u>Date of Last Visit</u>	
316 - 317	Year	2
318 - 319	Month	2
320 - 321	Day	2
322 - 333	NCFPS	12
334 - 345	OEO	12
346 - 357	MCHS	12
358 - 369	PPWP	12
370 - 381	NCHS	12
382 - 393	LOCAL	12
394 - 400	Filler	7

Activity File

<u>Field Location (Bytes)</u>	<u>Field Name</u>	<u>No. of Bytes</u>
001 - 003	Region	3
004 - 006	County	3
007 - 010	Clinic Number	4
011 - 019	Social Security Number	9
020 - 025	<u>Date of Activity</u>	
020 - 021	Year	2
022 - 023	Month	2
024 - 025	Day	2
026 - 026	Type Visit	1
<u>027 - 041</u>	<u>Services Provided</u>	
027 - 037	<u>Medical</u>	
027	Pap	1
028	Pelvic	1
029	Breast	1
030	Blood Pressure	1
031	Pregnancy	
032	VD	1
033	Urine	1
034	Blood Test	1
035	Sterilization	1
036	Infertility	1
037	Other	1
038 - 041	<u>Counseling</u>	
038	Sterilization	1
039	Contraception	1
040	Infertility	1
041	Other	1
042 - 047	<u>Assoc. Referral</u>	
042	None	1
043	Abortion	1
044	Sterilization	1
045	Infertility	1

<u>Field Location</u> (Bytes)	<u>Field Name</u>	<u>No. of Bytes</u>
046	Other Referral	1
047	Filler	1
048 - 050	<u>Contraception</u>	
048	Current	1
049	Interim	1
050	Why Not	1
051 - 057	<u>Next Appointment</u>	
051	Purpose	1
052 - 053	Year	2
054 - 055	Month	2
056 - 057	Day	2
058 - 059	Disposition	2
060 - 060	Marital Status	1
061 - 061	Pap	1
062 - 062	VDRL	1
063 - 063	GC	1
064 - 064	Pregnancy	1
065 - 066	Problem Visit	2
067 - 067	Income	1
068 - 069	Unplanned Preg.	2
079 - 079	Status	1
071 - 071	New Record	1
072 - 072	Latin American	1
073 - 074	Filler	2
075 - 077	Program Code	3
078 - 078	Race	1
079 - 079	Sex	1
080 - 081	Referral Source	2
082 - 082	Sickle Cell	1

<u>Field Location</u> (Bytes)	<u>Field Name</u>	<u>No. of Bytes</u>
083 - 094	OEO	12
095 - 106	MCHS	12
107 - 118	PPWP	12
119 - 130	LOCAL	12
131 - 150	Name	20
151 - 200	Filler	50

(Quarterly Reports)

<u>Field Location</u> (Bytes)	<u>Field Name</u>	<u>No. of Bytes</u>
001 - 010	<u>ID</u>	
001 - 003	Region	3
004 - 006	County	3
007 - 010	Clinic	4
011 - 011	Status	1
012 - 013	Age	2
014 - 014	Race	1
015 - 015	Sex	1
016 - 017	Associate Referral	2
018 - 019	Disposition	2
020 - 022	<u>Method</u>	
020	Current	1
021	Last	1
022	Interim	1
023 - 025	<u>Income</u>	
023	Major	1
024	Int	1
025	Minor	1
026 - 026	Children Living	1
027 - 027		1
028 - 028	Fetal Deaths	1
029 - 029	Live Births	1
030 - 030	Outcome of Preg.	1
031 - 031	Marital Status	1
032 - 036	<u>Test Results</u>	
032	Pap	1
033	VDRL	1
034	G.C.	1
035	Preg.	1
036	Sickle Cell	1

<u>Field Location</u> <u>(Bytes)</u>	<u>Field Name</u>	<u>No. of Bytes</u>
037 - 038	Referral Source	2
039 - 040	Occupation	2
041 - 041	Medicaid	1
042 - 042	P.A.	1
043 - 044	Education	2
045 - 047	Program Code	3
048 - 053	Date of Entry	6
054 - 100	Filler	47

<u>FIELD LOCATION</u> (Bytes)	<u>FIELD NAME</u>	<u>NO. OF BYTES</u>
001 - 004	TFAL	4
005 - 014	Patient No.	10
015 - 020	Visit Date	6
021 - 032	Last Name	12
033 - 039	First Name	7
040 - 040	Middle Initial	1
041 - 046	Street No.	6
047 - 054	Street Name	8
055 - 057	Apt. No.	3
058 - 065	City	8
066 - 068	Census Tract	3
069 - 073	Zip Code	5
074 - 080	Phone No.	7
081 - 084	TFP2	4
085 - 094	Patient No.	10
095 - 100	Visit Date	6
101 - 102	County No.	2
103 - 104	Clinic No.	2
105 - 105	Type Visit	1
106 - 106	Welfare	1
107 - 107	Medicaid	1
108 - 113	Date of Birth	6
114 - 114	Race	1
115 - 115	Marital Status	1
116 - 117	Education	2
118 - 118	No. of Pregnancies	1
119 - 119	Born Alive	1
120 - 120	No. Children Living	1
121 - 121	Children Under 5	1
122 - 127	Date of Last Delivery	6
128 - 128	Outcome	1
129 - 129	Referral Source	1
130 - 130	Hist. Method	1
131 - 131	Add. Preg.	1

<u>FIELD LOCATION</u> <u>(Bytes)</u>	<u>FIELD NAME</u>	<u>NO. OF BYTES</u>
132 - 132	Add. Schooling	1
133 - 133	Filler	1
134 - 134	Sex	1
135 - 135	Visit Purpose	1
136 - 137	Problems of Method	2
138 - 138	Counseling	1
139 - 139	Seen by	1
140 - 140	Breast Exam	1
141 - 141	Pelvic Exam	1
142 - 142	Pap Smear	1
143 - 143	Serology	1
144 - 144	Preg. Test	1
145 - 145	Urinalysis	1
146 - 146	Other Medical	1
147 - 147	Primary Method	1
148 - 148	Secondary Method	1
149 - 154	Date of Next Appmt.	6
155 - 155	Reason Next Visit	1
156 - 160	Filler	5
161 - 164	TFP3	4
165 - 174	Patient No.	10
175 - 180	Visit Date	6
181 - 182	County No.	2
183 - 184	Clinic No.	2
185 - 185	Type Visit	1
186 - 186	Zero	1
187 - 195	New Soc. Sec. No.	9
196 - 207	Last Name	12
208 - 214	First Name	7
215 - 215	Middle Initial	1
216 - 217	Problems of Method	2
218 - 218	Counseling	1
219 - 219	Seen by:	1
220 - 225	Filler	6
226 - 226	Supplies Given	1
227 - 227	Method 1	1

<u>FIELD LOCATION</u> <u>(Bytes)</u>	<u>FIELD NAME</u>	<u>NO. OF BYTES</u>
228 - 228	Method 2	1
229 - 234	Return Date	6
235 - 235	Reason Next Visit	1
236 - 237	Termination	2
238 - 240	Filler	3

Patient Master Record

<u>Field Location (Bytes)</u>	<u>Field Name</u>	<u>No. of Bytes</u>
001 - 009	Patient Number	9
010 - 014	Filler	5
015 - 019	Service Site No.	5
020 - 030	Filler	11
031 - 031	Record Type Code	1
032 - 032	Transaction Code	1
033 - 033	Filler	1
034 - 045	Last Name	12
046 - 054	First Name	9
055 - 055	Middle Initial	1
056 - 070	Street Address	15
071 - 083	City	13
084 - 088	Zip Code	5
089 - 095	Phone Number	7
096 - 096	Mail - Yes or No	1
097 - 097	Patient Type	1
098 - 099	Birth Month	2
100 - 101	Birth Date	2
102 - 103	Birth Year	2
104 - 104	Latin American Origin	1
105 - 105	Race	1
106 - 106	Sex	1
107 - 107	Marital Status	1
108 - 109	Education	2
110 - 111	Month - First Visit	2
112 - 113	Day - First Visit	2
114 - 115	Year - First Visit	2
116 - 118	County of Residence	3
119 - 119	Source of Referral	1
120 - 120	Used Contraception Method	1
121 - 121	Using Contraception Method	1
122 - 123	Last Method	2
124 - 124	Who Prescribed	1

<u>Field Location</u> <u>(Bytes)</u>	<u>Field Name</u>	<u>No. of Bytes</u>
125 - 126	No. of Live Births	2
127 - 127	No. of Fetal Deaths	1
128 - 129	Total No. of Pregnancy	2
130 - 130	Filler	1
131 - 132	No. of Children Living	2
133 - 133	No. of Abortions	1
134 - 134	Outcome of Last Pregnancy	1
135 - 139	Income	5
140 - 140	Unit of Measure	1
141 - 142	No. of People Supported	2
143 - 143	Financial Assistance	1
144 - 144	Medicaid	1
145 - 147	Local Use Item 1	3
148 - 150	Local Use Item 2	3
151 - 153	Local Use Item 3	3
154 - 158	Census Tract	5
159 - 161	Model City No.	3
162 - 165	Staff No.	4
166 - 210	(For PHS Use) blank	45

Patient Visit Record

<u>Field Location (Bytes)</u>	<u>Field Name</u>	<u>No. of Bytes</u>
001 - 009	Patient Number	9
010 - 014	Filler	5
015 - 019	Service Site No.	5
020 - 030	Filler	11
031 - 031	Record Type Code	1
032 - 032	Transaction Code	1
033 - 033	Visit Patient Type	1
034 - 034	Type of Visit	1
035 - 037	Contraceptive Services	3
038 - 039	Infertility Services	2
040 - 042	Other Services	3
043 - 044	Visit - Month	2
045 - 046	Visit - Day	2
047 - 048	Visit - Year	2
049 - 049	Breast Exam	1
050 - 050	Heart & Lung Exam	1
051 - 051	Pelvic Exam	1
052 - 052	Pap Smear	
053 - 053	Gonorrhea Test	1
054 - 054	Serology	1
055 - 055	Blood Test	1
056 - 056	Pregnancy Test	1
057 - 057	Urinalysis	1
058 - 058	Vaginal Smear	1
059 - 059	Blood Pressure	1
060 - 060	Other Lab Tests	1
061 - 061	Other Medical Exams	1
062 - 063	Prior Contraception Method	2
064 - 065	Complications	2
066 - 066	Reason for Change	1
067 - 068	Interim Contraception Method	2
069 - 070	Ongoing Contraception Method	2
071 - 071	Reason None	1

<u>Field Location</u> <u>(Bytes)</u>	<u>Field Name</u>	<u>No. of Bytes</u>
072 - 074	Local Use Item 1	3
075 - 077	Local Use Item 2	3
078 - 080	Local Use Item 3	3
081 - 081	Reason Closure	1
082 - 083	Hour of Next Appointment	2
084 - 084	AM or PM	1
085 - 086	Month of Next Appointment	2
087 - 088	Day of Next Appointment	2
089 - 090	Year of Next Appointment	2
091 - 091	Type of Next Appointment	1
092 - 096	Place of Next Appointment	5
097 - 129	Filler	33
130 - 130	Medicaid or AFDC	1
131 - 132	Prog. No. of Medicaid	2
133 - 133	"N" or blank	1
134 - 135	Co. No. of Medicaid	2
146 - 143	Acct. No. of Medicaid	8
144 - 147	Effective Date of Medicaid	4
148 - 148	* or blank	1
149 - 150	Family No. of Medicaid	2
151 - 160	AFDC Acct. No.	10
161 - 210	(PHS Use)	50

<u>Field Location (Bytes)</u>	<u>Field Name</u>	<u>No. of Bytes</u>
001 - 002	District	2
003 - 004	County	2
005 - 011	Patient No.	7
012 - 013	Home Clinic	2
014 - 037	<u>Patient Name</u>	
014 - 028	Last	15
029 - 036	First	8
037 - 037	I	1
038 - 038	Type	1
039 - 044	<u>Date of Admission</u>	
039 - 040	Mo	2
041 - 042	Dy	2
043 - 044	Yr	2
045 - 050	<u>Date of Last Visit</u>	
045 - 046	Mo	2
047 - 048	Dy	2
049 - 050	Yr	2
051 - 056	<u>Date of 1st Visit of Fiscal Year</u>	
051 - 052	Mo	2
053 - 054	Dy	2
055 - 056	Yr	2
057 - 060	<u>Return Date</u>	
057 - 058	Mo	2
059 - 060	Yr	2
061 - 062	# Of Visits This Year	2
063 - 069	<u>Count By Visit Type</u>	
063	Initial	1
064	Sched	1
065	Annual	1
066	Other Medical	1
067	Method Prob	1
068	Supply Only	1
069	Other	1

<u>Field Location</u> <u>(Bytes)</u>	<u>Field Name</u>	<u>No. of Bytes</u>
070 - 070	Source Ref	1
071 - 071	Contractor	1
072 - 076	<u>Referred Elsewhere</u>	5
072	Infert.	1
073	Abortion	1
074	Steril.	1
075	Other Medical	1
076	Social Services	1
077 - 080	<u>Months of Contracept. Coverage</u>	
077 - 078	Curr Yr	2
079 - 080	Next Yr	2
081 - 081	Infer. Couns.	1
082 - 082	Infer. Svc.	1
083 - 085	<u>Exams</u>	
083	Pelvic	1
084	Breast	1
085	Blood Pressure	1
086 - 088	<u>Abnorm.</u>	
086	Pelvic	1
087	Breast	1
088	Blood Pressure	1
089 - 096	<u>Lab Tests</u>	
089	Pap	1
090	HCT	1
091	Urine	1
092	G.C.	1
093	Sts.	1
094	Preg.	1
095	Rubella	1
096	Sickle Cell	1
097 - 097	X-Ray	1

<u>Field Location</u> (Bytes)	<u>Field Name</u>	<u>No. of Bytes</u>
098 - 103	<u>Positive Test</u>	
098	Pap	1
099	G.C.	1
100	Sts.	1
101	Preg.	1
102	Rubella	1
103	Sickle Cell	1
104 - 104	Sex	1
105 - 105	Race	1
106 - 106	Latin Orig.	1
107 - 110	<u>Date of Birth</u>	
107 - 108	Mo	2
109 - 110	Yr	2
111 - 111	Place of Birth	1
112 - 113	<u>Marital Status</u>	
112	1st	1
113	Current	1
114 - 115	<u>Financial Status</u>	
114	1st	1
115	Current	1
116 - 119	<u>Educational Status</u>	
116 - 117	1st	2
118 - 119	Current	2
120 - 120	Gravida	1
121 - 121	Parity	1
122 - 122	Fetals	1
123 - 123	Live Chld.	1
124 - 127	<u>Contracept. Method</u>	
124	Prev.	1
125	Init.	1
126	1st of F.Y.	1
127	Current	1

<u>Field Location</u> <u>(Bytes)</u>	<u>Field Name</u>	<u>No. of Bytes</u>
128 - 129	Last Clinic Visited	2
130 - 130	Del. Count	1
131 - 131	Status	1
132 - 132	Reason Disch.	1
133 - 134	<u>Age Group</u>	
133	1st	1
134	Current	1
135 - 135	Family Size	1
136 - 138	Planned Parent Fields	3
139 - 145	Filler	7
146 - 149	NCHS Clinic No.	4
150 - 150	NCHS Ind.	1

<u>Field Location (Bytes)</u>	<u>Field Name</u>	<u>No. of Bytes</u>
001 - 001	ISAM	1
002 - 015	Key	14
016 - 020	Patient Number	5
021 - 032	Last Name	12
033 - 040	First Name	8
041 - 057	Street Address	17
058 - 065	City	8
069 - 071	Zip	3
072 - 075	Phone	4
076 - 081	Medicaid Number	6
082 - 082	Contact Mode	1
083 - 085	Date of Birth	3
086 - 091	Social Security Number	6
092 - 092	Economic Status	1
093 - 093	Ethnic Designation	1
094 - 094	Latin American Origin	1
095 - 095	Marital Status	1
096 - 096	Sex	1
097 - 098	Education	2
099 - 099	Children Living	1
100 - 100	Live Births	1
101 - 101	Living Children Less than 5 Years of Age	1
102 - 102	Fetal Deaths	1
103 - 103	Outcome Last Pregnancy	1
104 - 106	Date Last Pregnancy Terminated	3
107 - 107	No. of Children Expected	1
108 - 108	Source of Original Ref.	1
109 - 109	Ever used any method	1
110 - 110	Currently Using	1
111 - 111	Last Method	1
112 - 112	Who Prescribed	1
	Latest Visit Segment	
113 - 113	Region	1
114 - 115	County	2
116 - 117	Clinic	2

<u>Field Location</u> <u>(Bytes)</u>	<u>Field Name</u>	<u>No. of Bytes</u>
118 - 120	Date of Visit	3
121 - 121	Patient Type	1
122 - 122	Reason for Entry	1
123 - 123	Welfare Status	1
124 - 124	Reg. for Medicaid	1
125 - 125	Sterilization	1
126 - 126	Contraception	1
127 - 127	Infertility	1
128 - 128	Pregnancy	1
129 - 129	V.D.	1
130 - 130	Sexual	1
131 - 131	Teenage	1
132 - 132	Other	1
133 - 133	Filler	1
134 - 134	Filler	1
135 - 135	String Check	1
136 - 136	Pap Smear	1
137 - 137	Pelvic Exam	1
138 - 138	Breast Exam	1
139 - 139	Vaginitis Treatment	1
140 - 140	Heart & Lung	1
141 - 141	Infertility	1
142 - 142	IUD Insert	1
143 - 143	Other	1
144 - 144	Filler	1
145 - 148	Blood Pressure	4
149 - 149	Wet Smears	1
150 - 150	Pregnancy	1
151 - 151	Sickle Cell	1
152 - 152	Urinalysis	1
153 - 153	G.C. Culture	1
154 - 154	VDRL	1
155 - 155	Other	1
156 - 156	Abortion	1
157 - 157	Sterilization	1
158 - 158	Infertility Serv.	1

<u>Field Location</u> <u>(Bytes)</u>	<u>Field Name</u>	<u>No. of Bytes</u>
159 - 159	Social Service	1
160 - 160	Other Medical	1
161 - 161	Voc - Rehab	1
162 - 162	Other	1
163 - 163	Filler	1
164 - 165	Method at End This Visit	2
166 - 168	Date Next Appointment	3
169 - 169	Reason Next	1
170 - 171	Reason No Return Date	2
172 - 184	Patient Seen By	13
185 - 188	Inventory	4
189 - 194	Special Use	6
195 - 196	Filler	2
197 - 280	Latest + 1 Visit Segment	84
281 - 364	Latest + 2 Visit Segment	84
365 - 366	Termination Code	2
367 - 369	Date Terminated	3
370 - 370	Sterilization	1
371 - 373	Date Admitted	3
374 - 374	Medicaid Ineligible	1
375 - 377	Date Last Medicaid Claim	3
378 - 380	Date Last IV-A Claim	3
381 - 383	Date Last IV-A Certification	3
384 - 387	Permanent Patient Identifier	4
388 - 390	Date Last Pap Smear	3
391 - 391	NCHS Visit Ever	1
392 - 392	Pap Smear Result Activity Status	1
393 - 393	Jan	1
394 - 394	Feb	1
395 - 395	Mar	1
396 - 396	April	1
397 - 397	May	1
398 - 398	June	1
399 - 399	July	1
400 - 400	August	1
401 - 401	Sept.	1

<u>Field Location</u> <u>(Bytes)</u>	<u>Field Name</u>	<u>No. of Bytes</u>
402 - 402	Oct.	1
403 - 403	Nov.	1
404 - 404	Dec.	1
405 - 410	Filler	6

3.0 DATA PROCESSING CAPABILITIES IN THE STATEWIDE PROGRAMS

A survey of state data processing capabilities was conducted in order to determine the readiness of each state to participate in the Regional Data Network. The results of this survey are displayed below. They are definite indication that all of the states in Region IV would now be able to provide the kind of data necessary for successful implementation of the RDN. The only state which does not yet have an operational computerized information system for family planning is Florida (a fact which explains Florida's non-response to some of the procedural questions); however, the Florida system has recently been approved and is expected to be firmly in place in approximately eighteen months.

The information displayed below is presented as it was reported by the various states.

1. Name of Computer Services Management Division

- Ala. Public Health Department
- Fla. Health Rehabilitative Services Data Center
- Ga. Department of Administrative Services
- Ky. Bureau for Computer Services, Executive Dept. for Finance & Administration
- Miss. Central Data Processing Authority
- N.C. Administration Computer Center Staff
- S.C. Department of Health & Environmental Control
- Tenn. Information System Services Division, Dept. of Finance & Administration

2. Type and Model of Computer

- Ala. UNIVAC - 9480
- Fla. Burroughs B-6700
- Ga. IBM 360/50
IBM 370/158 (2)
IBM 1800
DEC PDP-11 (2)
UNIVAC 1110

2. Type and Model of Computer (continued)

Ky. IBM 370/168

Miss. IBM 370/155

N.C. IBM 370/158

S.C. Mohawk 2400 (As terminal to IBM 370/45 at S.C. Dept. Mental Health)

Tenn. IBM 370/158

IBM 370/165

3. Operating Systems

Ala. OS/4

Fla. MCP

Ga. OS/VS-1 (370/158)

MPX (1800)

STANDARD (PDP-11)

EXEC 8 (UNIVAC)

Ky. OS/MVT R 21.8 HASP. X 4

Miss. OS/MVT

N.C. OS/VS-1

S.C. OS/VS-1

Tenn. HASP-OS-Shared Spool

4. Hours of Operation

Ala. 8 am - 5 pm Monday - Friday

Fla. 20 hours/day

Ga. Around the clock except for a few holidays

Ky. 24 hours/day

Miss. Continuous

N.C. 24 hours

S.C. Mohawk 8:30 am - 8:30 pm; IBM 24/hrs/day

Tenn. 24 hours/day, 7 days/week

5. Mean Time Between Failures

Ala. N/A

Fla. Unknown

5. Mean Time Between Failures (Continued)

Ga. Essentially not a problem: unimportant
Ky. 148 hours netting 4 hours down/month
Miss. Negligible
N.C. 24 hours
S.C. Very infrequent
Tenn. Unknown

6. Tape Drives:

	<u>Model</u>	<u># Drives</u>	<u>BPI</u>	<u># Tracks</u>
<u>Ala.</u>	Uniscervo VI-C	3	800	9
<u>Fla.</u>	B-9393	14	1600	9
	B-9392	2	1600	
<u>Ga.</u>	3420	33	800 & 1600	9
	2400	8	800 & 1600	9
	UNIVAC	6	800 & 1600	9
<u>Ky.</u>	3400 MDL 3+6+7	20	200, 556, 800, 1600, 6250	7 & 9
<u>Miss.</u>	3420	12	1600	9
<u>N.C.</u>	STC 3450	} 10	800	9
	STC 3470		1600	9
<u>S.C.</u>	3420	5	800 & 1600	9
<u>Tenn.</u>	3400-3	16	800 & 1600	9

7. Disks:

	<u>Model</u>	<u>Number of Units</u>	<u>Storage Capacity/Unit</u>
<u>Ala.</u>	UNIVAC 2414	3	29MM
<u>Fla.</u>	B9472	9	60 million bytes
<u>Ga.</u>	IBM 360/50		standard
	UNIVAC 8440	8	"
	IBM 2311	1	"
	IBM 2314	15	"
	ITEL 7330	30	"
<u>Ky.</u>	3330-1	38	200 million bytes

7. Disks: (Continued)

	<u>Model</u>	<u>Number of Units</u>	<u>Storage Capacity/Unit</u>
<u>Miss.</u>	3330	32	46 million bytes
<u>N.C.</u>	Calcomp 230	22	100 million bytes
<u>S.C.</u>	IBM 3330	8	100 million bytes
<u>Tenn.</u>	IBM 3330	50	100 million bytes

8. Optical Form Reader:

	<u>Model</u>	<u>Number of Units</u>	<u>Speed</u>
<u>Ala.</u>	None		
<u>Fla.</u>	None		
<u>Ga.</u>	IBM 1288	1	Variable
<u>Ky.</u>	IBM 1288	1	
<u>Miss.</u>	None		
<u>N.C.</u>	None		
<u>S.C.</u>	IBM 1232	1	800/hr max
<u>Tenn.</u>	None		

9. Line Printers:

	<u>Model</u>	<u># Printers</u>	<u>Speed</u>	<u>Characters/Line</u>
<u>Ala.</u>	UNIVAC 0768	1	1100 1pm	132
<u>Fla.</u>	B-9243	4	1100 1pm	132
<u>Ga.</u>	1403-N1	4	1100 1pm	132
	UNIVAC 770	1	2000 1pm	132
	3211	4	1400 1pm	132
<u>Ky.</u>	3211-1	3	2000 1pm	133
<u>Miss.</u>	1403-N1	2	1100 1pm	133
<u>N.C.</u>	1403	4	1200 1pm	132
<u>S.C.</u>	Mohawk 5346	1	750 1pm	132
<u>Tenn.</u>	3211	3	2000 1pm	133

10. Card Readers:

	<u>Model</u>	<u># Readers</u>	<u>Speed</u>
<u>Ala.</u>	UNIVAC 0716	1	600 cpm
<u>Fla.</u>	B-9112	2	1400 cpm
<u>Ga.</u>	2540	2	1000 cpm
	3540	2	1000 cpm
	UNIVAC 1004	1	400 cpm
<u>Ky.</u>	3505	1	1000 cpm
<u>Miss.</u>	2540	1	1000 cpm
	2501	1	600 cpm
<u>N.C.</u>	2540	1	1000 cpm
	2501	1	600 cpm
<u>S.C.</u>	Mohawk	1	300 cpm
<u>Tenn.</u>	3525	2	800 cpm

11. Card Punch:

	<u>Model</u>	<u># Punches</u>	<u>Speed</u>
<u>Ala.</u>	UNIVAC 604	1	300 cpm
<u>Fla.</u>	None		
<u>Ga.</u>	2540	2	1000 cpm
	3540	2	1000 cpm
	UNIVAC 1004	1	400 cpm
<u>Ky.</u>	3525	1	300 cpm
<u>Miss.</u>	2540P	1	300 cpm
<u>N.C.</u>	IBM 2540	1	300 cpm
<u>S.C.</u>	None		
<u>Tenn.</u>	3505	2	300 cpm

12. Communications Equipment:

	<u>Model</u>	<u># Terminals</u>	<u>Speed</u>
<u>Ala.</u>	None		
<u>Fla.</u>	None		
<u>Ga.</u>	Courier	40	2400 band
	U100	10	9600 band

12. Communications Equipment: (Continued)

	<u>Model</u>	<u># Terminals</u>	<u>Speed</u>
<u>Ky.</u>	3-3705	Supporting RJE, Video	Inquiry, IMS
<u>Miss.</u>	None		
<u>N.C.</u>	IBM 3270	50	2400 band
	Memorex 2741	16	1200 band
	TCI 2740	8	600 band
<u>S.C.</u>	Mohawk 2400 simulating 360/20	1	4800 band
<u>Tenn.</u>	CCI Computer CC70	35 lines	

13. Plotter:

	<u>Model</u>	<u># Plotters</u>
<u>Ala.</u>	None	
<u>Fla.</u>	None	
<u>Ga.</u>	None	
<u>Ky.</u>	None	
<u>Miss.</u>	None	
<u>N.C.</u>	None	
<u>S.C.</u>	None	
<u>Tenn.</u>	None	

14. Microfiche:

	<u>Model</u>
<u>Ala.</u>	None
<u>Fla.</u>	None (except in Archives Division)
<u>Ga.</u>	None
<u>Ky.</u>	None
<u>Miss.</u>	None
<u>N.C.</u>	Quantor 105 (COM)
<u>S.C.</u>	None
<u>Tenn.</u>	Stromberg - Carlson

15. Software

Language(s) Used for Family Planning Program:

Ala. COBOL

RPG

BAL

Fla. COBOL

Ga. COBOL

BAL

Ky. COBOL

FORTRAN

PL/1

Miss. COBOL

N.C. COBOL

S.C. COBOL

Tenn. COBOL

16. Software Packages Used for Family Planning Program

The following states reported the use of a vendor-supplied package in support of the family planning program:

Fla. BASIS

Ky. SAS

S.C. QUIKJOB II

Tenn. SPSS

17. Time Between Receiving Form(s) and Delivering Reports

Ala. 3 days

Fla. System not yet operational

Ga. No answer

Ky. Forms received weekly with 6-day lapse at closing of month.
Reports delivered on 20th.

Miss. 15 days

N.C. 2 to 5 weeks

S.C. 2 days after monthly cutoff

Tenn. 2 weeks

18. Time Between Request for Minor Programming Changes and Implementation

Ala. No set time
Fla. System not yet operational
Ga. No answer
Ky. 4 to 6 weeks
Miss. Generally less than 30 days
N.C. 4 weeks
S.C. 1 week
Tenn. 4 to 6 weeks

19. Time Between Request for New Programming and Printed Report

Ala. No set time
Fla. System not yet operational
Ga. No answer
Ky. 3 months
Miss. Variable
N.C. 2 months
S.C. 1 to 4 weeks depending on completely
Tenn. 6 to 12 weeks

20. Percent Error of Input Documents

Ala. Unknown
Fla. System not yet operational
Ga. No answer
Ky. 15%
Miss. <1%
N.C. 5% (unprocessable errors)
S.C. 7%
Tenn. 2%

21. How are Errors Handled?

Ala. They are corrected & reprocessed
Fla. System not yet operational
Ga. No answer

21. How are Errors Handled? (Continued)

- Ky. Error listings are distributed to clinics; forms resubmitted to correct files.
- Miss. No answer
- N.C. Most errors are corrected at the service site according to the edit list generated by the system
- S.C. Incorrect forms are mailed directly back to the clinic completely the forms.
- Tenn. Corrected in F.P. office or returned to clinics

22. Do You Offer Customized Reports?

- Ala. Yes
- Fla. System not yet operational
- Ga. No answer
- Ky. No
- Miss. Yes
- N.C. Yes
- S.C. Yes
- Tenn. Yes

23. Do You Have Cost Data Capabilities?

- Ala. Yes
- Fla. System not yet operational
- Ga. No answer
- Ky. No
- Miss. No
- N.C. No
- S.C. Yes
- Tenn. Yes

24. Are Your Forms Readily Available?

- Ala. Yes
- Fla. System not yet operational
- Ga. No answer
- Ky. Yes

24. Are Your Forms Readily Available? (Continued)

Miss. Yes

N.C. Yes

S.C. Yes

Tenn. Yes

25. Are Additional Types of Reports Available on Request?

Ala. Depends on type of report requested

Fla. System not yet operational

Ga. No answer

Ky. Yes

Miss. No

N.C. Yes

S.C. No

Tenn. Yes

26. Are Simple Statistical Measures Used in Reports?

Ala. No

Fla. System not yet operational

Ga. No answer

Ky. Yes

Miss. No

N.C. Yes

S.C. Yes

Tenn. No

27. Are Graphic Techniques Included in Reports?

Ala. No

Fla. System not yet operational

Ga. No answer

Ky. No

Miss. No

N.C. No

S.C. No

Tenn. No

4.0 CURRENT REPORTING CAPABILITIES AND TECHNIQUES

The reporting capabilities and techniques outlined in this section of the report are ones currently employed by the state family planning information systems within Region IV.

Section 4.1 provides a detailed listing of the responses given by state personnel to questions about the availability of various selected report formats in their individual state systems. The pattern of responses imply the existence of informal criteria used by state administrators to determine the usefulness of particular types of reports, and these patterns should be duly assessed as part of the work of specifying the new reporting capabilities which are to be made a part of the Regional Data Network.

Section 4.2 presents a discussion of monitoring and evaluation strategies that should be considered during the course of developmental work on the RDN. Although the basic characteristics of the evaluation methodologies used to evaluate the family planning program in Region IV are by now well established, there is still every reason to consider typical alternative methodologies, so that the Regional Data Network can be designed to accommodate any future changes in program philosophy, policy or procedure. This consideration is considered critical, for along with the space-time dimensions of reporting formats and reporting cycles is needed that extra dimension of reporting flexibility fundamental to the total configuration of any reporting system is to be responsive to a changing environment and changing needs.

4.1 SURVEY OF REPORTING ELEMENTS

The following table displays the results of a survey of current reporting capabilities in each of the statewide family planning programs within Region IV. The purpose of the survey was to obtain the information necessary for a review of existing evaluative management tools used by the state programs, so that any reporting procedures or formats of special interest might be incorporated into the Region IV Data Network.

The entries are coded as follows: "A" means that the designated report type is currently available in the statewide program; "B" means that the designated report type is not currently available, but could be made available if it were desired; "C" means that the designated can not be made available, because the information which would be required to produce the report either is not collected or is not entered into the state's computerized family planning information system.

	<u>Ala.</u>	<u>Fla.</u>	<u>Ga.</u>	<u>Ky.</u>	<u>Miss.</u>	<u>N.C.</u>	<u>S.C.</u>	<u>Tenn.</u>
1. Accumulative Patient Profile	A	B	A	B	A	B	A	C
2. Patient Services - All Patients	A	A	A	A	A	A	A	C
3. Patient Services - New Patients	A	A	A	A	A	A	A	C
4. Patient Services - Return Patients	A	A	A	A	A	A	A	C
5. Clinic Services - Program Contacts	B	C	C	A	C	A	A	C
6. Patient Contraceptive Summary	A	A	A	A	A	A	A	C
7. Family Planning Desires	C	C	C	C	C	C	C	C
8. Education & Employment	A	C	C	A	C	C	A	B
9. Economics	A	C	C	A	C	C	A	C
10. Community & Social Services	C	C	C	C	C	C	A	C
11. Service Group Potential	C	A	C	C	C	C	C	C
12. Patient Parity by Age	A	C	B	A	C	C	A	A
13. Patient Problem Disposition	C	C	B	A	A	B	C	C
14. Physical Exams & Lab Services - New Patients	A	C	B	B	C	A	A	C
15. Physical Exams & Lab Services - Return Patients	A	A	B	B	A	A	A	C

	<u>Ala.</u>	<u>Fla.</u>	<u>Ga.</u>	<u>Ky.</u>	<u>Miss.</u>	<u>N.C.</u>	<u>S.C.</u>	<u>Tenn.</u>
16. Lab Test Results - All Patients	C	C	C	A	A	C	A	C
17. Outreach Follow-up	C	B	C	C	C	A	A	C
18. Patient Dropout Analysis	A	C	B	C	C	B	A	C
19. Master Patient	A	A	A	A	A	A	A	A
20. Patient Appointment List	B	A	A	A	A	A	C	A
21. Missed Appointment/Overdue Patient List	B	C	B	B	A	A	A	A
22. Patients by Visit Type	A	C	B	A	A	A	A	B
23. Patients by Services Provided	A	C	B	A	A	A	A	B
24. Patients by Visit Type and Services Provided	A	A	A	A	A	A	A	B
25. Patients by Age, Race, and Sex	A	A	A	A	A	A	A	B
26. Patients by Age, Race and Method	A	C	A	A	A	A	A	B
27. Patients by Income, Parity, Method and Race	A	C	B	A	B	A	A	C
28. Problem Visits by Type, Method and Age	B	C	C	B	C	A	B	C
29. Patients by Marital Status, Parity, Age and Method	B	C	C	A	B	B	A	B
30. Patient Contraceptive History by Last Method, Present Method, Problem Visit Type	B	A	C	C	C	B	B	C
31. Patients on Medicaid and Public Assistance	A	C	C	A	B	B	A	A
32. Public Assistance Patients by Parity, Race, Age and Method	A	C	C	B	B	B	B	B
33. Source and Number of Third-Party Reimbursements	A	A	C	B	B	A	C	B
34. Patient Breakdown by Target Area	A	C	B	C	C	A	A	C
35. Patients by Education & Employment Status	B	C	C	A	C	C	C	C
36. Discontinuation and Retention Rates by Age, Marital Status Method	A	C	B	B	C	B	A	C
37. Employment Status by Income and Parity	A	C	C	C	C	C	C	C
38. Patient Payment Analysis	C	C	C	C	C	C	C	C
39. Cost Analysis by Seniors - Number and Type of Examinations and Prescriptions Provided	C	C	C	C	C	C	C	C

	<u>Ala.</u>	<u>Fla.</u>	<u>Ga.</u>	<u>Ky.</u>	<u>Miss.</u>	<u>N.C.</u>	<u>S.C.</u>	<u>Tenn.</u>
40. Patient Encounters Per Physician (per period)	A	C	C	C	C	C	B	C
41. Program Cost Breakdown by a Functional Cost	B	C	C	C	C	C	B	C
42. Third Party Reimbursement Analysis by Type and Number of Patients	A	C	C	C	C	A	B	C
43. Cost Analysis by Type of Method Per Encounter	B	C	C	C	C	C	B	C
44. Patient Service Costs by Services Provided	B	C	C	C	C	C	C	C
45. Laboratory Examination Costs Per Patient and Method	B	C	C	C	C	C	C	C
46. Average Number of Total Encounters Per Total Patients by Services Provided	A	C	C	C	C	A	C	C
47. Average Time of Encounters Per Services Provided	C	C	C	C	C	C	C	C

4.2 MONITORING AND EVALUATION STRATEGIES IN THE RDN

In reviewing the literature related to the goals and objectives of family planning services it is evident that there is considerable diversity in the measures and criteria being used for monitoring and evaluation. In its present state the Quarterly Monitoring Chart (QMC) reflects which program aspects are currently receiving priority attention in Region IV. It is unlikely, however, that the QMC (or any states reporting format) includes in its scope of interest all those aspects of the family planning program which it will be desirable for a Regional Data Network to give attention. The constraints on the present information system may also be such that some data are collected more for their availability than for their evaluative potency.

For these reasons, the occasion of planning a new information system may be an opportunity for program administrators at every level to reconsider the content of the system's monitoring and evaluation measures and to determine whether there is a need for additions or deletions to the system. To take advantage of this opportunity, an annotated bibliography has been included as part of this working document (section 7.0) with the intention of providing the setting in which it will be possible to conduct a critical review of the content of the information system.

Data is both expensive and time-consuming to collect and process. It is only sensible that the system should enter only those input elements which serve a clear and demonstrable information purpose. The reporting capability of any system is always secondary to its reporting needs. Once these are identified, a positive linkage is easily made to the specific data to be collected by the system. Reporting out the the information in the data base in meaningful and communicative reports then becomes a technical responsibility which is relatively simple to execute.

* * * * *

In order to assess the extent to which the computerized information systems supporting the statewide family planning programs contain the kind of information typically required to compute monitoring and evaluation

measures, three evaluation methodologies have been reviewed, and attempts have been made to determine whether the contemplated measures are derivable from the information bases of the current state systems. The three methodologies chosen for this review were: Region IV's Quarterly Monitoring Chart; an evaluation design proposed by the Family Planning Evaluation Institute; and a design developed by the National Family Planning Forum.

In the following presentation, the measures employed by each methodology are numbered consecutively; these same numbers are then repeated in a corresponding table developed to show whether or not the desired measure can be obtained by manipulating each particular state's data base.

MEASURES USED BY QUARTERLY MONITORING CHART

1. Size of FY1974 Budget: \$ Estimated Total
2. Size of FY1974 Budget: \$ Provided by NCFPS
3. Size of FY1974 Budget: \$ Expected from Third Party Payments
4. Size of FY1974 Budget: \$ Other (specify)
5. Total Number of Contraceptive patients to be served during FY1974
6. Expected number of active contraceptive patients on July 1, 1974

Female Patient Data

7. Unduplicated Number of New Contraceptive patients.
8. Unduplicated Number of Continuing Contraceptive patients.
9. Total Unduplicated Number of Contraceptive patients
10. Total No. of Active Contraceptive Patients in the program.
11. Sterilizations
 - a. Total No. of Female Sterilizations this quarter
 - b. Number of Sterilized Patients in active caseload
12. Total Number of "Other Patients"
13. Total Female Patient Visits:
 - a. Annual Exam (including initial visits)
 - b. Medical Revisits (not included in (a) above)
 - c. Supply visits only
 - d. Encounters

Male Patient Data

14. Total Number of Vasectomies
15. Number of Encounters (e.g., receiving condoms or counseling)
16. Number of Males Receiving Other Medical Services, e.g. infertility

Personnel Data

17. Number of Vacant Positions During the Quarter
18. For Each Vacant Position Included in (1) Above
 - a. Title
Annual Salary
% of Time Budgeted Per Year?
Length of Vacancy (in months)
Reason for Vacancy
 - b. Title
Annual Salary
% of Time Budgeted Per Year?
Length of Vacancy (in months)
Reason for Vacancy

Clinic Information

19. Total Number of Clinic Hours Per Week
20. Number of clinic hours per week where medical family planning services are provided by a physician, nurse-midwife, or nurse practitioner
21. Number of weekly medical clinic hours or clinicians (included in #2 above) added this quarter

Third-Party Data

22. Number of women aged 15-44 residing in your project area who are registered for Medicaid and/or public assistance
23. Number of women who are registered for Medicaid and/or public assistance (included in #1 above) who are active patients in any family planning clinic in the project area, regardless of the clinic's source of funds.
24. Number of patients for whom you received reimbursements this quarter:
 - a. Females
 - b. Males
25. Number of patients seen in quarter for whom third party reimbursements have been claimed or submitted but not yet received.
26. Total third party funds received in this quarter
27. List all source(s) and total amount (\$) received:
 - a. Title XIX
 - b. Title IV-A
 - c. Patient fees
 - d. Other (specify, e.g., private insurance, sale of contraceptives)

Expenditures

28. Total funds expended this quarter.
29. Total Federal Funds Expended:
 - a. NCFPS funds
 - b. MCHS funds
 - c. Third Party
 - d. Other (specify)
30. Total Non-federal funds expended this quarter (specify source)
31. Projected NCFPS expenditures and obligations for next quarter
32. Number of Sterilizations Funded by NCFPS Project Monies (grant or matching monies):
 - a. Total
 - b. Persons younger than 21
 - c. Mentally incompetents

Additional Information

33. Note any characteristics of your program which might affect the interpretation of specific items or all of the data presented in this chart.
34. Identify any areas of your program which need special emphasis, technical assistance or consultation:

COMPUTERIZED DATA AVAILABLE BY

QUARTERLY MONITORING CHART

<u>QUESTION #</u>	<u>ALA.</u>	<u>FLA.</u>	<u>GA.</u>	<u>KY.</u>	<u>MISS.</u>	<u>N.C.</u>	<u>S.C</u>	<u>TENN.</u>
Female Patient Data	1	NO	NO	NO	NO	NO	NO	NO
	2	NO	NO	NO	NO	NO	NO	NO
	3	NO	NO	NO	NO	NO	NO	NO
	4	NO	NO	NO	NO	NO	NO	NO
	5	NO	NO	NO	NO	NO	NO	NO
	6	NO	NO	NO	NO	NO	NO	NO
	7	YES	YES	YES	YES	YES	YES	YES
	8	YES	YES	YES	YES	YES	YES	YES
	9	YES	YES	YES	YES	YES	YES	YES
	10	YES	YES	YES	YES	YES	YES	YES
	11a	YES	YES	YES	YES	NO	YES	YES
	b	NO	NO	YES	YES	YES	YES	NO
12	YES	YES	YES	YES	YES	YES	YES	

QUARTERLY MONITORING CHART
(Continued)

QUESTION #	<u>ALA.</u>	<u>FLA.</u>	<u>GA.</u>	<u>KY.</u>	<u>MISS.</u>	<u>N.C.</u>	<u>S.C.</u>	<u>TENN.</u>	
Female Patient Data	13a	NO	NO	NO	YES	YES	YES	YES	YES
	b	YES	YES	NO	YES	YES	YES	YES	YES
	c	YES	YES	YES	YES	NO	YES	YES	YES
	d	NO	NO	NO	NO	NO	YES	NO	NO
Male Patient Data	14	YES	YES	YES	YES	YES	YES	YES	YES
	15	YES	YES	YES	YES	YES	YES	YES	YES
	16	YES	YES	YES	YES	YES	YES	YES	YES
Personnel Data	17	NO	NO	NO	NO	NO	NO	NO	NO
	18	NO	NO	NO	NO	NO	NO	NO	NO
Clinic Info.	19	NO	NO	NO	NO	NO	NO	NO	NO
	20	NO	NO	NO	NO	NO	NO	NO	NO
	21	NO	NO	NO	NO	NO	NO	NO	NO
Third Party Data	22	NO	NO	NO	NO	NO	NO	NO	NO
	23	NO	NO	NO	NO	NO	NO	NO	NO
	24	NO	NO	NO	NO	NO	NO	NO	NO
	25	NO	NO	NO	NO	NO	NO	NO	NO
	26	NO	NO	NO	NO	NO	NO	NO	NO
	27	NO	NO	NO	NO	NO	NO	NO	NO
Expenditures	28	NO	NO	NO	NO	NO	NO	NO	NO
	29	NO	NO	NO	NO	NO	NO	NO	NO
	30	NO	NO	NO	NO	NO	NO	NO	NO
	31	NO	NO	NO	NO	NO	NO	NO	NO
	32	NO	NO	NO	NO	NO	NO	NO	NO
Add. Info.	33	NO	NO	NO	NO	NO	NO	NO	NO
	34	NO	NO	NO	NO	NO	NO	NO	NO

MEASURES USED BY FAMILY PLANNING EVALUATION INSTITUTE

Inputs

1. Total costs
2. Costs by service unit or activity
3. Personnel costs - total, by service unit or activity
4. Personnel costs - total, by service unit or activity

Outputs

Project

5. Total contacts
6. Total number of visits
7. Total number of individuals contacted

Recruitment

8. Number of recruitment contacts
9. Number of recruitment visits
10. Number of individuals visited for recruitment

Medical Services

11. Number of medical contacts
12. Number of medical visits
13. Number of medical patients served

Follow-up

14. Delinquent patient followup contacts
15. Number of delinquent patient followup visits
16. Number of delinquent patients visited for followup

Effects

Project

17. Number of active family planning users
 - a. Number of new family planning users
 - b. Number of continuing family planning users
 - c. Number of discontinued family planning users
18. Number of months use

Recruitment

19. Number of individuals recruited

Medical

20. Number of active patients
 - a. Number new patients
 - b. Number continuing patients
 - c. Number discontinued patients

Recruitment

21. Number of followup patients who kept appointments

Cost-Effect

Project

22. Total cost per total visits

23. Total cost per active family planning user

24. Total recruitment costs per individual visited for recruitment

25. Total recruitment costs per individual recruited

Medical

26. Total medical costs per medical patients served

27. Total medical costs per active patient

Followup

28. Followup costs per delinquent patient visited

29. Followup cost for delinquent patient who kept appointment

Output

30. Total or weighted clinic visits

Cost-Effect

31. Total cost per contraceptive months

32. Service cost per weighted new and continuing patient clinic visits

Impact

33. Contraceptive effectiveness, total and by type

34. Unwanted pregnancy rate

COMPUTERIZED DATA AVAILABLE FOR FPEI

<u>QUESTION #</u>	<u>ALA.</u>	<u>FLA.</u>	<u>GA.</u>	<u>KY.</u>	<u>MISS.</u>	<u>N.C.</u>	<u>S.C.</u>	<u>TENN.</u>
1	NO	NO	NO	NO	NO	NO	NO	NO
2	NO	NO	NO	NO	NO	NO	NO	NO
3	NO	NO	NO	NO	NO	NO	NO	NO
4	NO	NO	NO	NO	NO	NO	NO	NO
5	NO	NO	NO	NO	NO	YES	NO	NO
6	YES	YES	YES	YES	YES	YES	YES	YES
7	NO	NO	NO	NO	NO	YES	NO	NO

(Continued)

<u>QUESTION #</u>	<u>ALA.</u>	<u>FLA.</u>	<u>GA.</u>	<u>KY.</u>	<u>MISS.</u>	<u>N.C.</u>	<u>S.C.</u>	<u>TENN.</u>
8	NO	NO	NO	NO	NO	NO	NO	NO
9	NO	NO	YES	YES	NO	NO	YES	YES
10	NO	NO	YES	YES	NO	NO	YES	YES
11	NO	NO	NO	NO	NO	NO	NO	NO
12	YES	YES	YES	YES	YES	YES	YES	YES
13	YES	YES	YES	YES	YES	YES	YES	YES
14	NO	NO	NO	NO	NO	NO	NO	NO
15	NO	NO	NO	NO	NO	NO	NO	NO
16	NO	NO	NO	NO	NO	YES	NO	NO
17a	YES	YES	YES	YES	YES	YES	YES	YES
b	YES	YES	YES	YES	YES	YES	YES	YES
c	NO	NO	NO	NO	YES	YES	NO	NO
18	NO	NO	NO	NO	NO	NO	NO	NO
19	NO	NO	NO	NO	NO	NO	NO	NO
20a	YES	YES	YES	YES	YES	YES	YES	YES
b	YES	YES	YES	YES	YES	YES	YES	YES
c	NO	NO	NO	NO	NO	YES	NO	NO
21	NO	NO	NO	NO	NO	NO	NO	NO
22	NO	NO	NO	NO	NO	NO	NO	NO
23	NO	NO	NO	NO	NO	NO	NO	NO
24	NO	NO	NO	NO	NO	NO	NO	NO
25	NO	NO	NO	NO	NO	NO	NO	NO
26	NO	NO	NO	NO	NO	NO	NO	NO
27	NO	NO	NO	NO	NO	NO	NO	NO
28	NO	NO	NO	NO	NO	NO	NO	NO
29	NO	NO	NO	NO	NO	NO	NO	NO
30	YES	YES	YES	YES	YES	YES	YES	YES
31	NO	NO	NO	NO	NO	NO	NO	NO
32	NO	NO	NO	NO	NO	NO	NO	NO
33	NO	NO	NO	NO	NO	NO	NO	NO
34	YES	YES	YES	NO	YES	YES	YES	NO

Cost
Effect

MEASURES USED BY NATIONAL FAMILY PLANNING FORUM

Size and Growth

1. Total Patients seen during year (sum of new and continuing patients)
2. Total new patients seen during year (sum of all initial visits)
3. Active patients at end of year
4. Total patient visits during year (sum of all visits by all patients, i.e., initial, annual examination, revisits, and supply visits)

Composition

5. Total patients broken down by:
 - Age
 - Income
 - Number of children
 - Color

Quality and Accessibility

6. Number of all patients using pill, IUD or voluntary sterilization at last visit.
7. Number of patients who received each of five core medical services (Pap, breast and pelvic exams, VD screening, blood test) at least once during year
8. Total clinic hours (with MD or equivalent present) at night, on weekends and other times.
9. Number of days (or weeks) of waiting time for appointment.
10. Average time spent at clinic session per new (and annual examination) patient

Administration, Management and Efficiency

11. Total program budget, by source of funds:
12. Number of patients (not visits) whose services are reimbursed by
 - a. Medicaid
 - b. IV-A; or
 - c. other third party
13. New patients recruited by program personnel
14. Overdue patients reactivated after follow-up contact

Derived Program Statistics

15. Unmet Need = DPV Formula (period estimate) - total patients
16. Continuing patients = Total patients - new patients
17. Dropouts (or closures) = Total patients - [active + inactive] patients

18. Absolute program growth = Total patients this year - total patients last year
19. Relative program growth = $\frac{\text{Total patients this year} - \text{total patients last year}}{\text{Total patients last year}} \times 100$

COMPUTERIZED DATA AVAILABLE FOR NATIONAL FAMILY PLANNING FORUM

<u>QUESTION #</u>	<u>ALA.</u>	<u>FLA.</u>	<u>GA.</u>	<u>KY.</u>	<u>MISS.</u>	<u>N.C.</u>	<u>S.C.</u>	<u>TENN.</u>
1	YES	YES	YES	YES	YES	YES	YES	YES
2	YES	YES	YES	YES	YES	YES	YES	YES
3	YES	YES	YES	YES	YES	YES	YES	YES
4	YES	YES	YES	YES	YES	YES	YES	YES
5	YES	YES	YES	YES	YES	YES	YES	YES
Income	NO	NO	NO	YES	NO	YES	YES	NO
6	YES	YES	YES	YES	YES	YES	YES	NO
7	YES	YES	YES	YES	NO	YES	YES	YES
8	NO	NO	NO	NO	NO	NO	NO	NO
9	NO	NO	NO	NO	NO	NO	NO	NO
10	NO	NO	NO	NO	NO	NO	NO	NO
11	NO	NO	NO	NO	NO	NO	NO	NO
12a	NO	NO	NO	NO	NO	NO	NO	NO
b	NO	NO	NO	NO	NO	NO	NO	NO
c	NO	NO	NO	NO	NO	NO	NO	NO
13	NO	NO	NO	NO	NO	YES	NO	NO
14	NO	NO	NO	NO	NO	YES	NO	NO
15	NO	NO	NO	NO	NO	NO	NO	NO
16	YES	YES	YES	YES	YES	YES	YES	YES
17	YES	YES	YES	YES	YES	YES	YES	YES
18	NO	NO	NO	NO	NO	NO	NO	NO
19	NO	NO	NO	NO	NO	NO	NO	NO

5.0 REGIONAL DATA NETWORK REQUIREMENTS

This section changes the direction of the study from an analysis of what already exists (in the current state family planning information systems in Region IV) to a review of alternatives for the future (in the context of a fully realized Regional Data Network). These are the alternatives among which choices need to be made as the project continues into its next phase.

A general design of the proposed network is set forth tentatively in section 5.1. Although virtually every aspect of that design is subject to change, the presentation of a single paradigm system serves the highly useful purpose of providing a setting and a focus for further analysis.

Section 5.2 begins to modulate the discussion by switching to a lower level of analysis: the level of alternative reporting capabilities suitable for the contemplated system. The material presented in this section will require priority attention by the appropriate administrators.

Section 5.3 tracks the section it follows by attempting a preliminary formulation of a data base design capable of providing the information necessary to generate reports of the type and scope specified in that previous section. Since information which is not available to and suitably formatted in the data base will not be available for reports, it is essential to understand the linkages between data base design and general reporting requirements.

Section 5.4 explores software considerations which need to be reviewed and assessed in conjunction with the further development of the overall system design. Included are discussions of a variety of commercially available software packages which might appropriately be used: report generators, data base management systems, and statistical packages.

Section 5.5 concludes this preliminary evaluation of the requirements of the Regional Data Network by setting the stage for discussions on the appropriate roles for the various components of the network at state and regional levels.

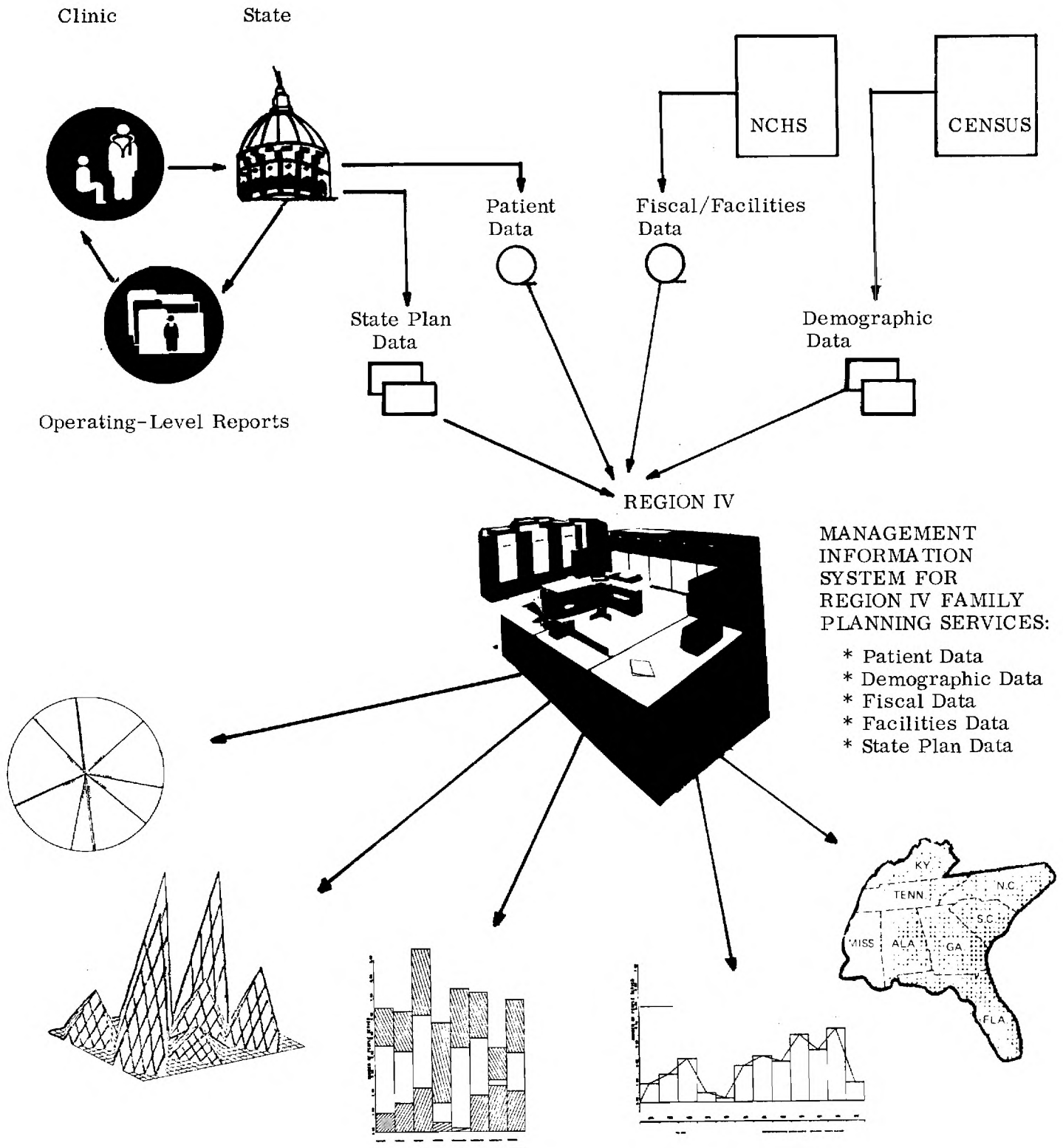
5.1 GENERAL SYSTEM FEATURES

The purpose of this section of the working document is to offer a general description of a proposed Regional Data Network. In reviewing this description, one should understand that it intentionally glosses over a number of alternative configurations or procedures which would be possible with regard to various aspects of the system design. (Consideration of some of the more important of these alternatives is deferred to section 6.0 of this report.) Rather, the present intent is to provide a basic paradigm for review and discussion, a paradigm which can be used in conference to explore the central issues of the function and design of the proposed network.

The general system description on the following page shows that the RDN will place almost no additional burden on the states. Their contribution will consist essentially of monthly tapes generated as a byproduct of the current processing activities and a small amount of additional information pertaining to their state plan. Other input to the system will be derived from NCHS and Census Bureau data. The end result will be an integrated data base comprised of Region IV patient, demographic, fiscal, facilities, and state plan data -- a data base upon which appropriate transformations can be made to yield management- and evaluation-oriented graphs, maps, charts, and statistical tables.

A more detailed view of the RDN is presented in the system flowchart. This flowchart is divided into six operational sections and twenty-five blocks. The first section, which can be thought of as a conversion section, is where census data are transformed into a card file; updated information related to target population is read off appropriate documents and punched into a card file (as often as appropriate); and all information referring to state family planning fiscal operations and clinic operations is punched into a card file. Thus at the end of this section there are card files, two of which are ready for use by the master control program (the census data file and the census update file) and the third of which is ready for the master file update program (state fiscal and facilities data).

GENERAL SYSTEM DESCRIPTION



MANAGEMENT INFORMATION SYSTEM FOR REGION IV FAMILY PLANNING SERVICES:

- * Patient Data
- * Demographic Data
- * Fiscal Data
- * Facilities Data
- * State Plan Data

MANAGEMENT TOOLS FOR REGION AND STATES:
 Graphs, Maps, Charts, and Statistical Tables

The second section of the flowchart takes the state fiscal and facilities card file and feeds it into the master update program along with a tape file containing detailed information on patients, clinics, and state fiscal operations (produced by the master control program on the previous run, or nonexistent if this is the first run) and the eight patient data tape files from the eight states. These three files are then merged in the master update program to produce a new updated file; this "new master" tape file is then ready for use as input by the master control program.

The third section is the master control program itself. Written in standard COBOL, this program takes as input the census data card file, the census update card file, and the master tape file. With these three files it does the following:

1. Merge the census data file and the census update file to produce a disk data file that contains data to be used by the density target population map program.
2. Produces a disk data file that contains data for the plot program.
3. Produces a disk data file containing data for the statistical analysis program.
4. Produces a lengthy, a highly detailed summary of all information on patient data, clinic data, state fiscal data, and demographical data.
5. Produces an "aggregated" master tape file. This tape file will be used by a special option of the master control program to produce trend analyses.

Although a new detailed master tape file appears to be produced, in reality it is the same tape file that was produced by the master file update program. It is saved and used in the next production run by the master file update program to help produce a new detailed master tape file.

The fourth section is where the density target population map program takes the map data disk file (produced by the master control program) and produces density maps of each state (by county) and of Region IV (by state).

The fifth section of the system flowchart is where the plot data disk file (produced by the master control program) is used by the plot program to produce bar graphs (state comparison over period), three-dimensional graphs, and pie graphs. It should be noted that an off-line device (Calcomp plotter) is used in the actual production of graphs. The program referenced here only creates instructions for the plotter.

The sixth and last section is where the statistical analysis program uses the statistical data disk file to perform a detailed statistical analysis report.

Thus the entire production run yields the following output:

1. Density target population maps by county and state.
2. A detailed report summary of all region data.
3. A statistical analysis report.
4. Bar graphs, pie graphs, and three-dimensional graphs.
5. Detailed master tape file (to be updated in next production run).
6. Aggregated master tape file (to be used later for trend analysis).
7. Census data card file.

The major sections of the master control program are depicted in the six pages of flowcharts which conclude this chapter of the report. These subprograms may be briefly described as follows.

The Master-File-Setup Section

In this section, the state planning, state fiscal, state facilities card data files and the old detailed master and the new patient tape data files are input into a merge and edit routine. This routine will perform an extensive series of error checks to determine the validity of all data and thereby optimize processing time. After all checks are completed this section of the program will merge all data into a well-formatted new detailed master tape file. This tape will be used extensively by all other sections of the program and will be updated by the master-file-setup section during the next processing run.

The Map-Production Section

This section first takes the Census (Old) card data file and the Census (Update) card data file and merges them into a Census Data disk file. The newly created Detailed Master tape file (created in section I of this program) is then rewound and any data related to the production of maps is read out of it. Next this and the Census Data disk file are processed to produce yet another disk file--the Map Data file. The mapping routine itself is then started and density target population maps are produced on the line printer. Since this routine (the mapping routine) is written in COBOL it will be incorporated directly into the master control program as opposed to the plot and statistical analysis routines which shall be left as distinct programs due to their different language types.

The Plot-Production Section

Here the Detailed Master tape file is scanned for all plot-related data. This data is then inputted into a routine which produces a Plot Data disk file. The actual plot program is then initiated and independently synchronously processed.

The Statistical-Analysis Section

This section is processed exactly like the previous Plot-Production section with the only differences being that the Detailed Master tape file is scanned for statistical-related rather than plot-related data and that the statistical analysis program is initiated instead of the plot program. It should be noted that at this point the computer is working on three tasks: the Master Control Program, the Plot Program, and the Statistical Analysis Program. All tasks are at this point completely independent of one another. This method of processing is much faster than if these tasks had to be performed serially.

The Report-Summary Section

Here is where all data from the Detailed Master tape file is summarized and written in report form.

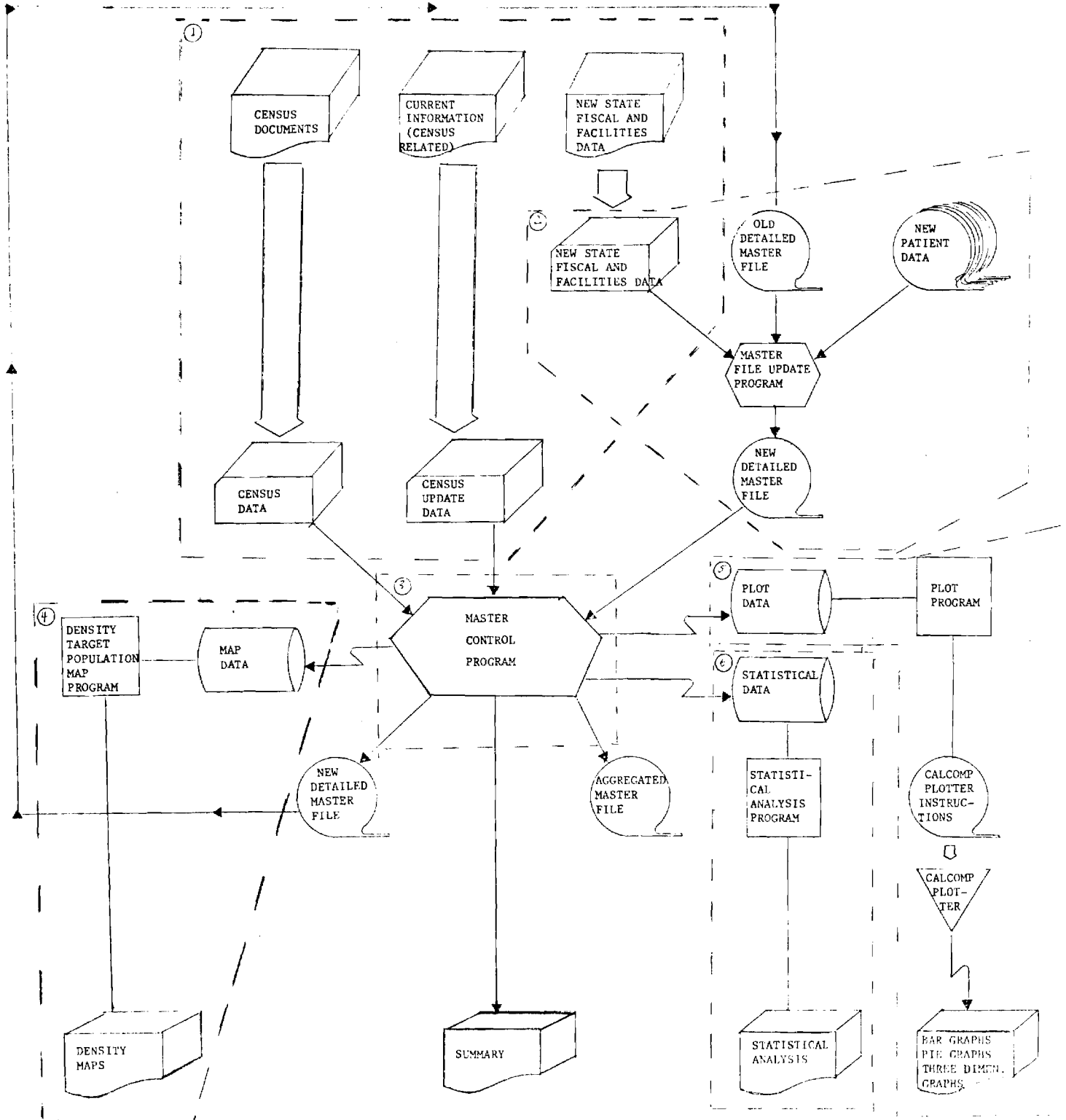
The Aggregated-Master-File-Production Section

Here the Detailed Master tape file is read for the last time. Its data is heavily edited and summarized in the production of the Aggregated Master tape file. The program then closes and saves all files.

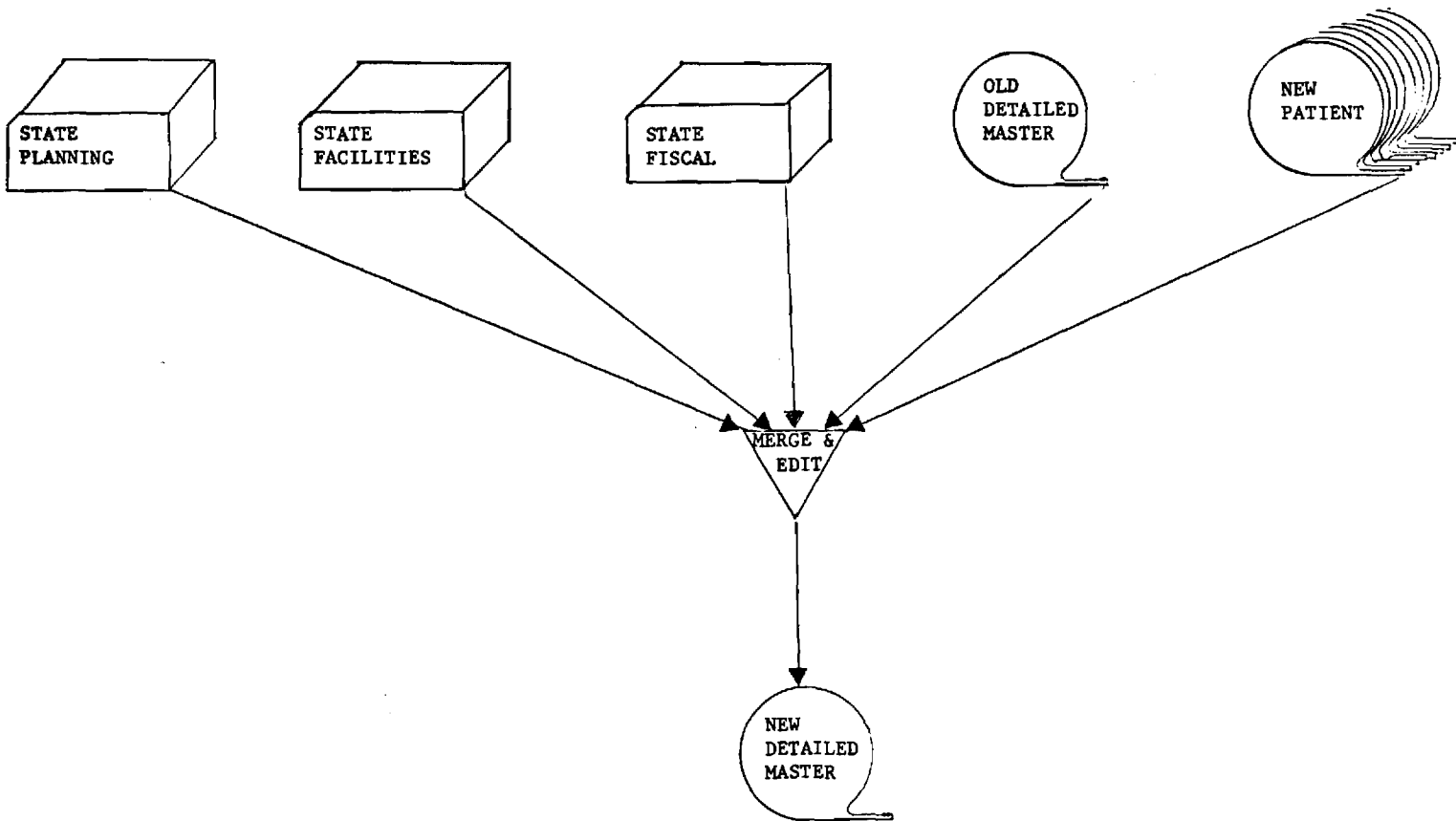
The following three options will be available on each run:

1. Full Production Run. Run is exactly as is outlined above.
2. Single State Run. Run is done exactly as above with the following exception: Run is made for only one state rather than all eight. Aggregated Master tape file is not produced.
3. Trend Analysis Run. In this run the sole input source is the collected Aggregated Master tape files of previous time periods. A trend analysis is then performed which will produce maps (one set for beginning of period and another for end of period); slightly differently formatted graphs; a statistical analysis; and summarized reports.

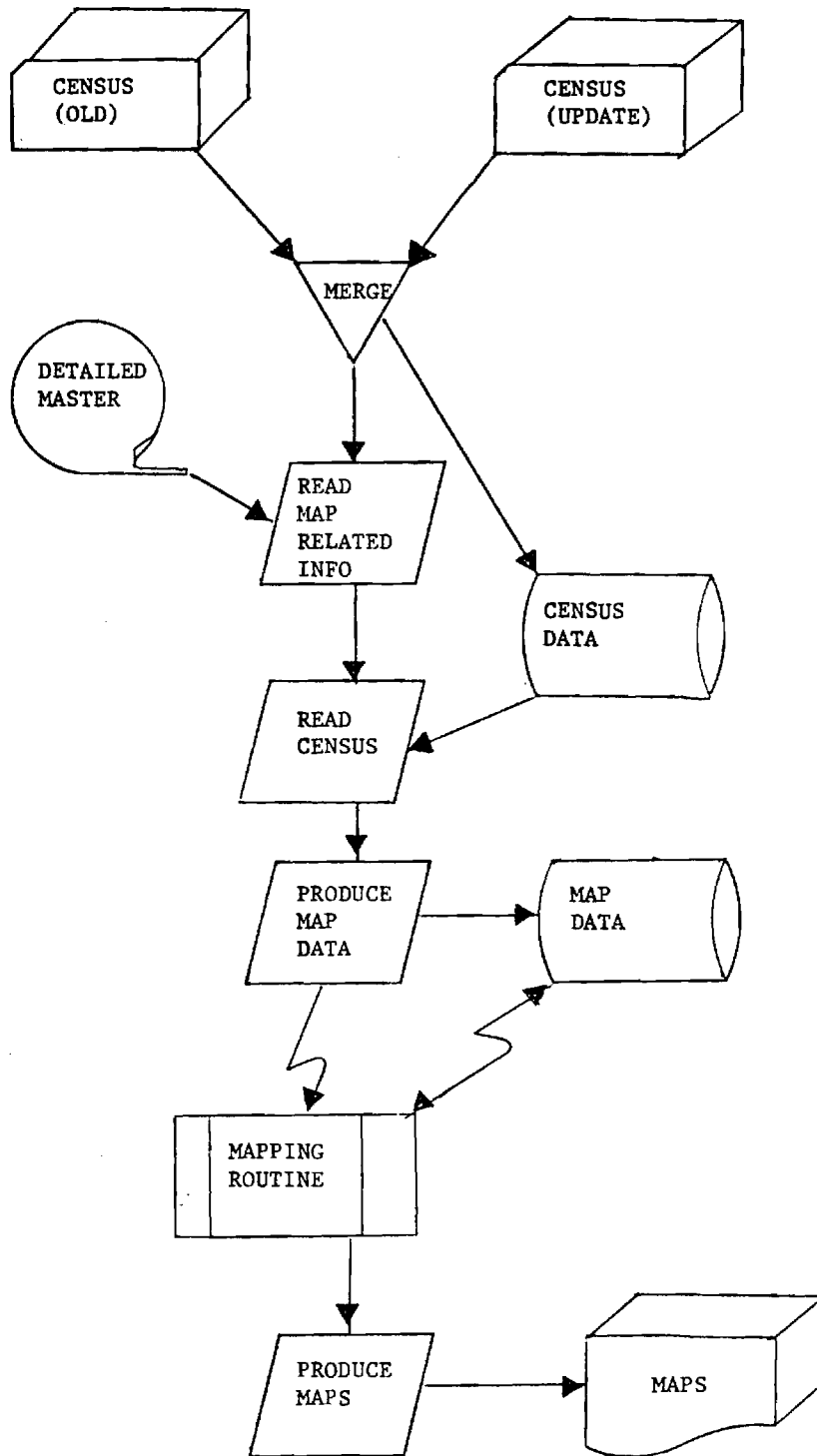
SYSTEM FLOWCHART



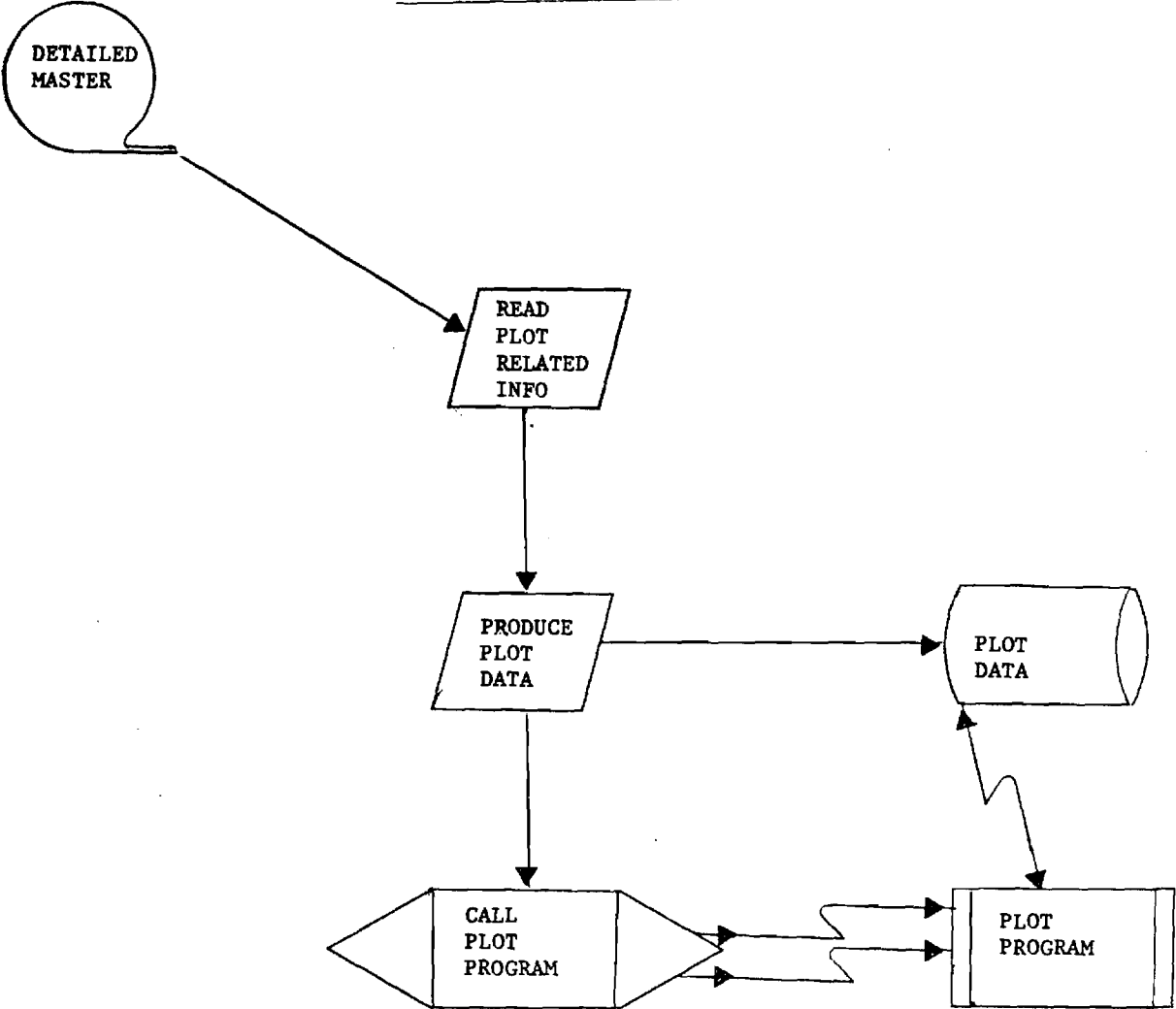
THE MASTER-FILE-SETUP SECTION



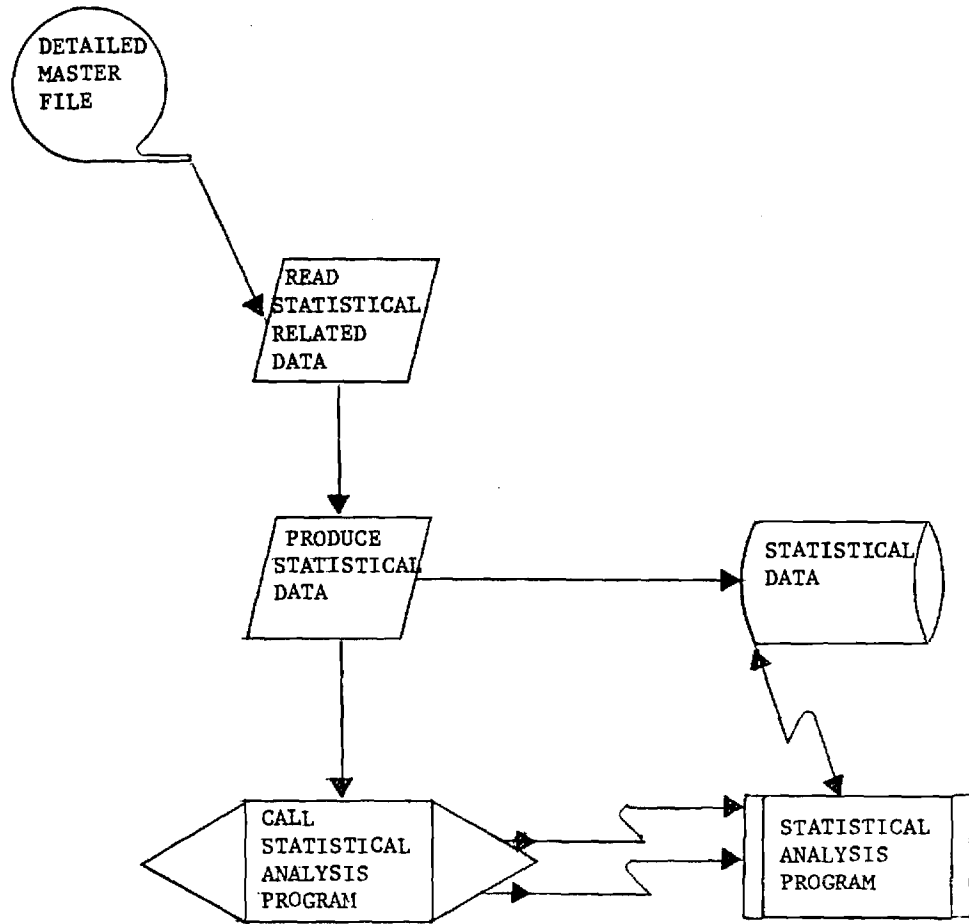
THE MAP-PRODUCTION SECTION



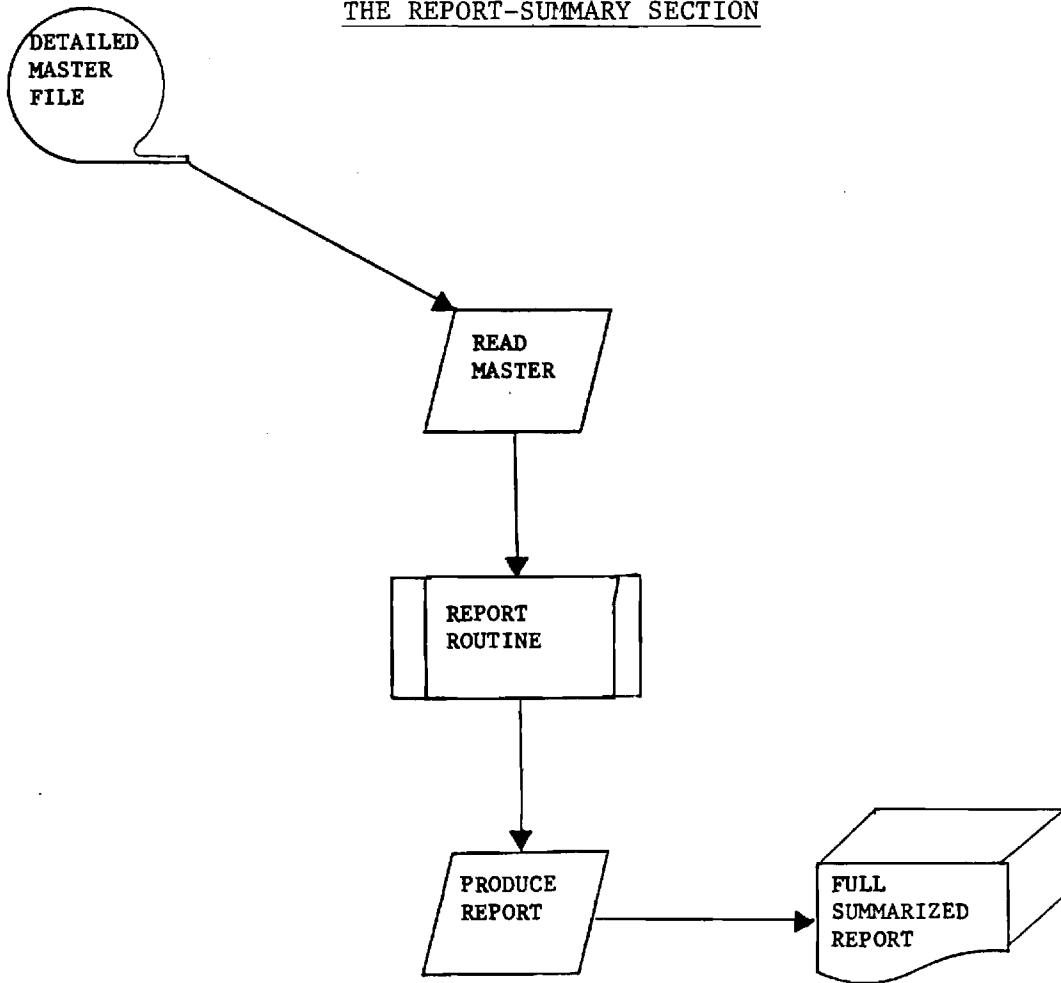
THE PLOT-PRODUCTION SECTION



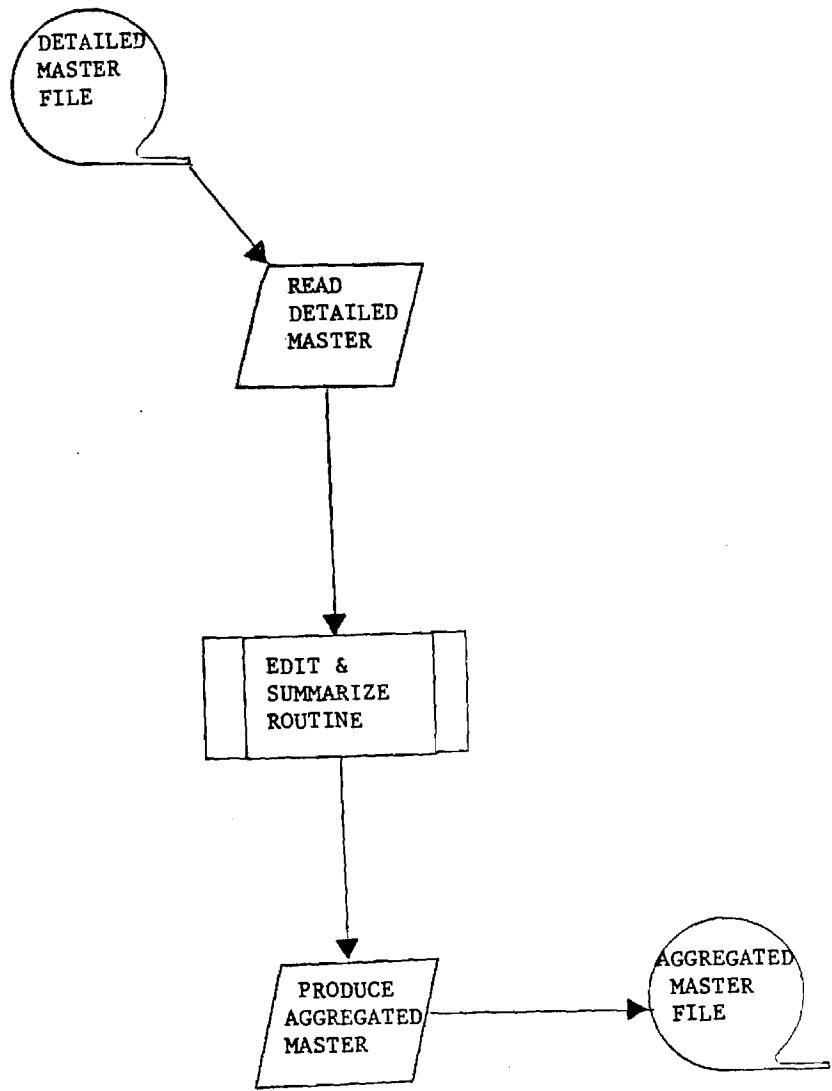
THE STATISTICAL-ANALYSIS SECTION



THE REPORT-SUMMARY SECTION



THE AGGREGATED-MASTER-FILE-PRODUCTION SECTION



5.2 REPORTING CAPABILITIES

The ultimate value to the Regional Data Network will hinge on the system's ability to report, summarize and analyze family planning data in a timely and relevant manner. To be an effective monitoring and evaluation tool, the system should be obligated not only to the routine processing of data descriptive of program service, impact and cost, but also to the preparation of special reports which the system's users may require from time to time. As a user-oriented system, it is also mandatory that the RDN minimize the need for skilled programming in order to access the data base in response to user requests for special studies.

The Regional Data Network is being designed principally as a management information system which will allow administrators at various levels to make planning and programming decisions on an informed, rational basis. For this reason the RDN must have the capability to bring together data of the following types: 1) patient record information; 2) clinic and provider agency facilities, including manpower and staffing patterns; 3) information related to specific program objectives and guidelines; 4) budget and fiscal information; and 5) census-type demographic information of the sub-region service areas. In addition to the problem of designing a system capable of cross-referencing these various types of information, extensive consideration must also be given to the task of aggregating the system's data at several management levels.

This section of the preliminary report is intended to provide the potential users of the Regional Data Network with a basis for discussing and shaping the reporting requirements which the data system should be designed to meet. The objective will be to formulate the entire task in a manner that all user recommendations can be made with a full awareness of the practical constraints under which the Regional Data Network must operate. It is hoped that the final design will be a cooperative effort from which all parties will benefit and thereby be provided with the motivation to sustain whatever obligations the system's creation and maintenance may impose on them.

Perhaps the simplest way to develop the issues associated with identifying a reporting structure for the Regional Data Network is to begin with a synopsis of the existing systems. Currently each State maintains a patient-oriented family planning record-keeping system. In all but one of the states (Florida), this system is already computerized, and it is anticipated that within a year to 18 months all states in the region will be using a computerized system. Details on these separate state systems are given elsewhere in this report. The principal use of these systems within states is to provide an information base for the administration and delivery of services. From the point of view of the Regional Data Network, however, these systems also enable state level administrators to meet, at least in part, information requests originating at both the national and regional level. Routine national information needs are met by providing NCHS with an edited tape of each month's patient transactions. Program information requested by the regional office is met, on the other hand, by submission of a quarterly report which asks for data which is only partially obtainable from the state's patient record data files. The instrument employed for the regional report is known as the Quarterly Monitoring Chart (QMC), and its completion by the state family planning offices currently requires considerable manual effort for both the collection and reporting of the requisite data. Additionally, there are occasions when special information requests are made by either the national or the regional office. The states often experience difficulty complying with such requests, because the information is either not readily available or cannot be cast easily into the reporting format specified.

The proposed Regional Data Network is not intended to have immediate impact on the manner in which states report data to the national reporting system. The national reporting system, however, is important to the Regional Data Network to the extent that it represents a data base which need not be duplicated by the proposed regional system.

Of more immediate concern in the development of a viable Regional Data Network is the current status of the QMC. The implementation of the Regional Data Network might entirely eliminate the need for this report, because the

Regional Data Network will absorb the present reporting purposes of the QMC and substitute in its place a reporting procedure that will supply regional administrators with a substantially enriched information source. Of particular importance to the regional administrators is the need for a regional reporting mechanism that permits patient activity information to be linked with selected clinic, fiscal, and demographic factors. The obvious benefit of this type of information system is that regional staff will be able to flag program parameters requiring one or another kind of administrative attention and to do so in an information-rich context, with the result that state-level administrators will have specific criteria against which to develop and evaluate remedial actions.

In moving towards an information system in which family planning program information may be interpreted more readily for planning, monitoring and evaluation purposes, the Regional Data Network will face many of the same problems encountered by the state and national reporting systems: for example, the problems of reporting unduplicated counts of patients, of determining the actual extent of services provided by a clinic "visit," making validity checks on the accuracy of reported information, relating service statistics to an appropriately defined target universe, and classifying the current activity status of enrolled patients. In designing the Regional Data network, it is anticipated that renewed consideration will be given to these issues by the respective state systems. While primarily matters of data input, they will critically affect the reporting capability of the Regional Data Network, and must for that reason be clarified at least to the extent that data accepted into the regional network will be equated across states not on the basis of "labelling" but of "definitions."

Working within the constraints outlined in section 1.0 of this report, the Regional Data Network proposes to generate a reporting capability that will make family planning program data available for a variety of administrative purposes. In designing the system, consideration will be given to identifying for each report element not only its information content but the level or levels at which the data will be aggregated, the frequency of its compilation, the appropriate management and evaluation purposes to be

served, and the specific administrative staff expected to be the primary users of the information. Generally speaking, the reports generated by the Regional Data Network will be supplemental to existing state and national reporting systems. The RDN is expected to replace and considerably enlarge the regional reporting currently performed by the Quarterly Monitoring Chart. For the most part, reports will be statistical in nature, but with an emphasis placed on the use of graphs, maps and other display techniques calculated to enhance the readability of the systems reports. Tabulations and listings will, of course, comprise the bulk of the the reports, but careful attentiln will be given to insuring that reports will have the type of labelling and formatting that will enhance their communication properties. The design of the RDN will also address itself to the problem of making its data base easily accessible for special information requests and queries from users at all administrative levels.

Determination of Specific Reporting Formats

The reporting needs of the Regional Data Network are not too dissimilar from the purpose for which information is currently being collected at the state and national level. The Region, however, represents an important level of data aggregation and analysis, since that is the level to which the monitoring and evaluation responsibility has been principally assigned. The Region also represents an administrative entity within which data can be aggregated across state lines, but in a manner that can benefit individual states. For example, county-level data can be examined in terms of demographic comparisons with minimal danger of individual counties being identified. It is also true that some program variables can be better evaluated by aggregations that cut across state lines.

Before considering specific reporting needs, it might be well to state the goals which typically guide the collection and dissemination of family planning data. It is not unusual for these goals to be given as:

1. The provision of statistics on the number and characteristics of persons receiving family planning services, the size and nature of clinics

and staff, and the services provided by family planning clinics;

2. The provision of data on the use of family planning clinics;
3. The measurement of the continuity and duration of patient service in the family planning setting;
4. The determination of statistical relationships among clinic users, services provided, and staff and facility characteristics;
5. The monitoring of fiscal and budgetary variables related to the provision of family planning services;
6. The identification of trends in the numbers and types of clinics being operated, the services being provided, and the effectiveness of family planning clinics in coping with population and health-related social problems;
7. Estimation of the size and characteristics of the population in need of family planning services, measures of success in contacting this target population, enrolling and continuing its membership in a family planning program; and
8. The impact of the family planning program in reducing the discrepancy between intended and actual births in the target population.

In response to these goals of the family planning program, and in the context of the regional responsibility for monitoring and evaluating, a number of specific reporting needs suggest themselves for the Regional Data Network. In presenting these specific reporting needs it is understood that the issue of their final design and incorporation into the RDN will be a matter for continuing discussion between the consultants and the family planning staff at the regional and state level. It is anticipated that the reporting features suggested here will undergo consideration refinement before they are adopted, if in fact they are adopted as part of the RDN. It is also clearly understood that additional report capabilities will more than likely be included in the system before its design is completed. In fact, the RDN should remain an essentially open-ended information system, in the sense that a major feature of its construction should be the capability of adding and dropping reports even after the network has been implemented within the region.

Typical Reports (Not an Exhaustive Listing)

Report Label: RDN-R01

Title: STATE PLAN RESUME

Description: For each of the eight Region IV States this report supplies a brief resume of the key features of the current year's state family planning plan. This report is intended to replace and amplify the present face page of the Quarterly Monitoring Chart.

Format: The report heading will include in addition to the report title, the official name of the project grantee, the name of the state, the NCFPS and NCHS/SDA project numbers, and the most recent date of the information up-date.

Project identification data: address and phone number(s) of the state family planning office; name, title, and tenure of key state-level personnel; short history of sponsorship and existence of state family planning services; summary of current year's budget; size of proposed target population and current estimate of active patient load; number of state districts; number of counties in state and number of counties participating in family planning program; number of clinics.

Optional project identification output: density map for each state showing county level frequency counts for size of target population, number of active FP patients, number of potential patients not being served.

For each state a listing of its specific project goals and objectives will be presented in conjunction with the precise measures used by the state to evaluate performance on each objective. Where applicable, a performance standard or expected value for the criterion measure will be indicated. A region-wide code will be developed for program objectives and the report will list objectives by the following sup-goal levels: a) Outreach/Recruitment, b) Medical Services, c) Fiscal Management, d) Education and Training, and e) Social Services.

Preparation Cycle: Input for this report will follow a basic yearly cycle, with quarterly up-dating. Reports will be produced quarterly.

Source of Data: Annual Project Plan and Quarterly up-date form.

Report Label: RDN-R02

Title: STATE PERFORMANCE RATINGS

Description: Using a combination of region-wide and state-specific program objectives, a concordance table will be generated showing the current performance rating (measured by percent of standard achieved) for each state on each applicable objective.

Format: Cross-tabulation in which the columns contain the state names plus an all-state (region) average, and the rows contain the complete listing of region-wide and within-state objectives.

Optional output for this report will include a within-state tabulation of the state-specific objectives, the state performance rating, the standard or expected value, and the percent of standard achieved.

Preparation Cycle: Quarterly

Source of Data: Edited Tape of State Patient records, the State Plan File, the Census Data File, and the Clinic Site File.

Report Label: RDN-R03

Title: STATE BUDGET AND FISCAL STATUS

Description: For each state the project budget will be broken down by federal and non-federal categories in a table showing the annual amounts budgeted, expenditures to date, balance, and percent of budgeted amount expended to date. Third party fiscal data will be presented in terms of anticipated income, income received to date, balance, and percent of expected income received.

Format: Table showing each State's budgetary status as described above, and a summary table crossing each state against federal, non-federal, and third-party income totals.

Preparation Cycle: Quarterly

Source of Data: State Plan File, up-date form from state central office.

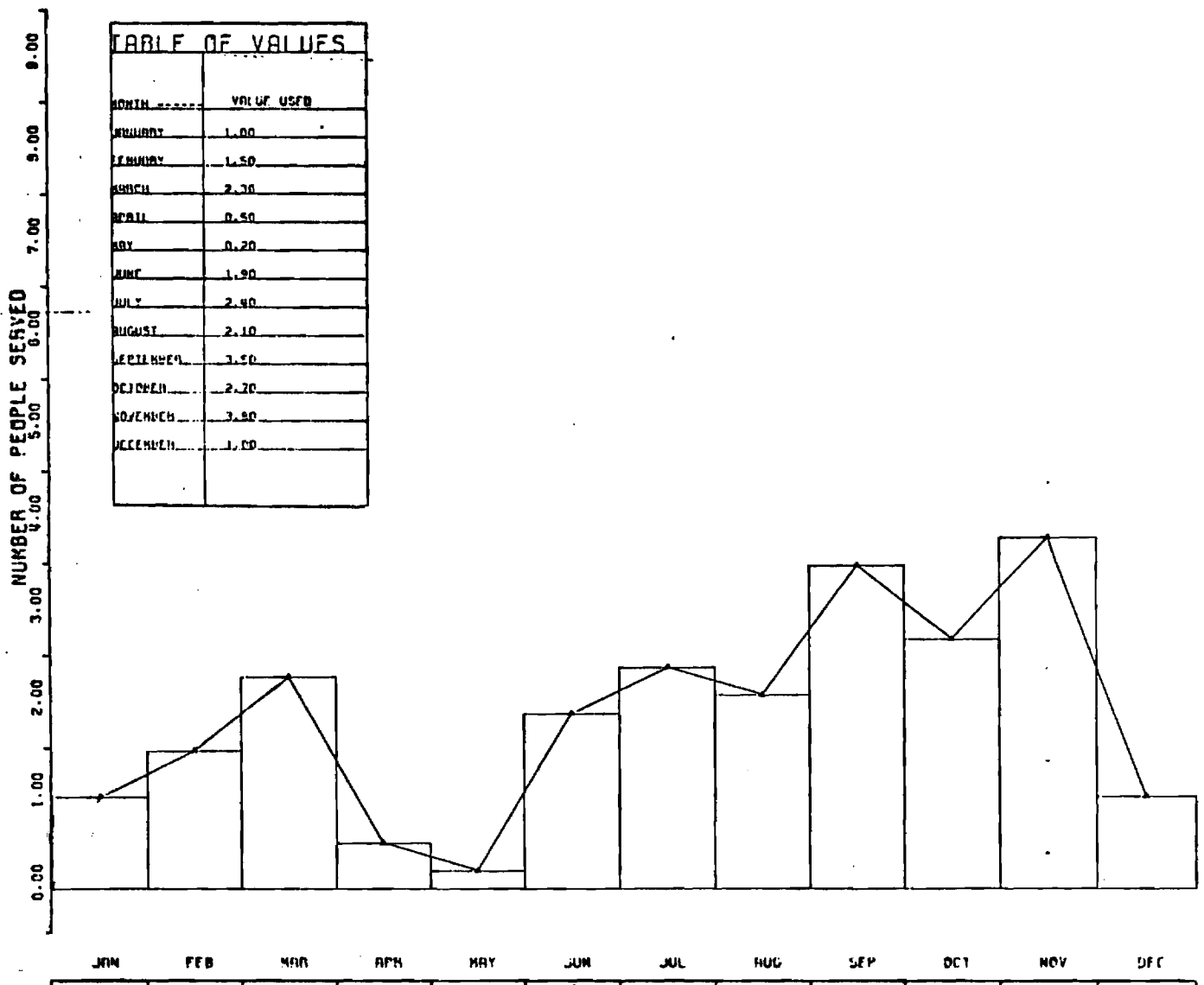
In addition to the reports described above, the Regional Data Network will be expected to describe and analyze a wide variety of family planning data related to patient services, clinic facilities, and staffing patterns. The number of specific possibilities for breaking out these data into routine and special reports is so numerous that it does not seem productive in this preliminary report to enter into a discussion of particular reports. The current version of the Quarterly Monitoring Chart clearly indicates that there is considerable interest at the regional level in obtaining descriptive summaries, averages, and percentages on a variety of program variables related to these aspects of Family Planning. It is also apparent that the Regional Data Network will establish a linkage between county census data and the patient and clinic files maintained at both the state and national levels.

In general, then, it will be the task of the Regional Data Network to prepare tables, graphs, and maps that will describe, summarize, cross-tabulate and correlate patient, clinic, staff and demographic data in a manner that meets the needs of the various users of the RDN. Aggregation will be carried out at the county, state district, state, and regional levels, as desired. The capacity for aggregation that disregards state boundaries will also be possible. To the extent feasible, the preparation of these reports will be assigned to statistical packages such as SPSS or SAS. When necessary, however, the contractor will design programs for use at the regional level to provide programs that will prepare routinely needed reports of these types of data. It will be the responsibility of the next phase of the project, however, to formulate the specific report structures. It is felt that this assignment can be carried out much more effectively once state and regional project staff have had an opportunity to review the potential of various statistical packages, report generators and general-purpose data handlers for dealing with the regional family planning data bases. Such general purpose program packages are described in section 5.4 of this report. In this respect, the report capability of the Regional Data Network will not be limited by the available programming procedures so much as by the structure of the data files. By this is meant that the program packages will allow almost any type of processing the user desires, restricted only by the availability of the necessary input data.

For illustrative purposes, samples of the types of maps and graphs which the RDN will produce are shown on the following pages.

SAMPLE BAR GRAPH SHOWING PROGRAM DEVELOPMENT OVER
AN EXTENDED TIME PERIOD

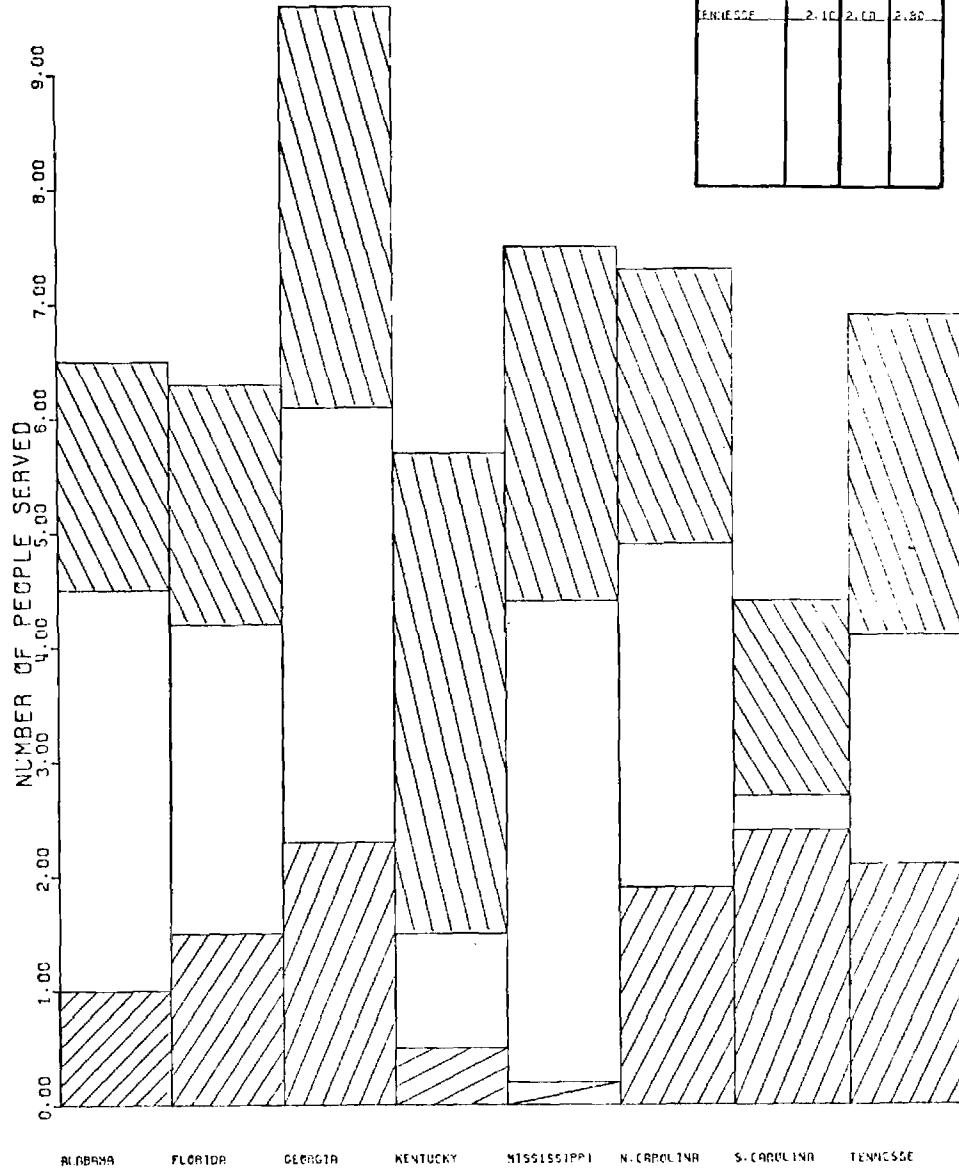
(Dummy Data Used)



SAMPLE BAR GRAPH COMPARING PROGRAM DEVELOPMENT IN EIGHT STATES,
DISTINGUISHING GROWTH RATES IN THREE DIFFERENT TIME PERIODS

(Dummy Data Used)

STATE	PERIOD INCREASE		
	A	B	C
ALABAMA	1.00	3.50	2.00
FLORIDA	1.50	2.70	3.10
GEORGIA	2.30	3.80	2.50
KENTUCKY	0.50	1.10	4.20
MISSISSIPPI	0.20	4.20	3.10
N. CAROLINA	1.50	3.10	2.40
S. CAROLINA	2.40	0.30	1.70
TENNESSEE	2.10	2.10	2.80



SAMPLE PIE GRAPH SHOWING PERCENTAGE-OF-TOTAL, ON A
SELECTED VARIABLE, AMONG EIGHT STATES

(Dummy Data Used)

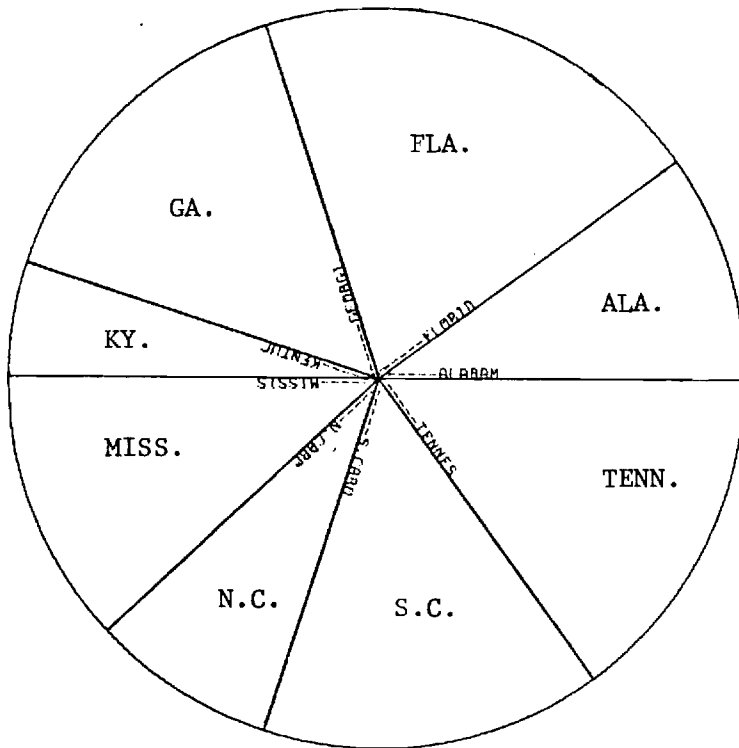


TABLE OF VALUES	
STATE	VALUE USED
ALABAMA	10.00
FLORIDA	20.00
GEORGIA	15.00
MISSISSIPPI	5.00
KENTUCKY	12.00
KENTUCKY	5.00
KENTUCKY	15.00
MISSISSIPPI	15.00

SAMPLE THREE-DIMENSIONAL GRAPH CONTRASTING PERFORMANCE
ON SELECTED VARIABLE AMONG EIGHT STATES

(Dummy Data Used)

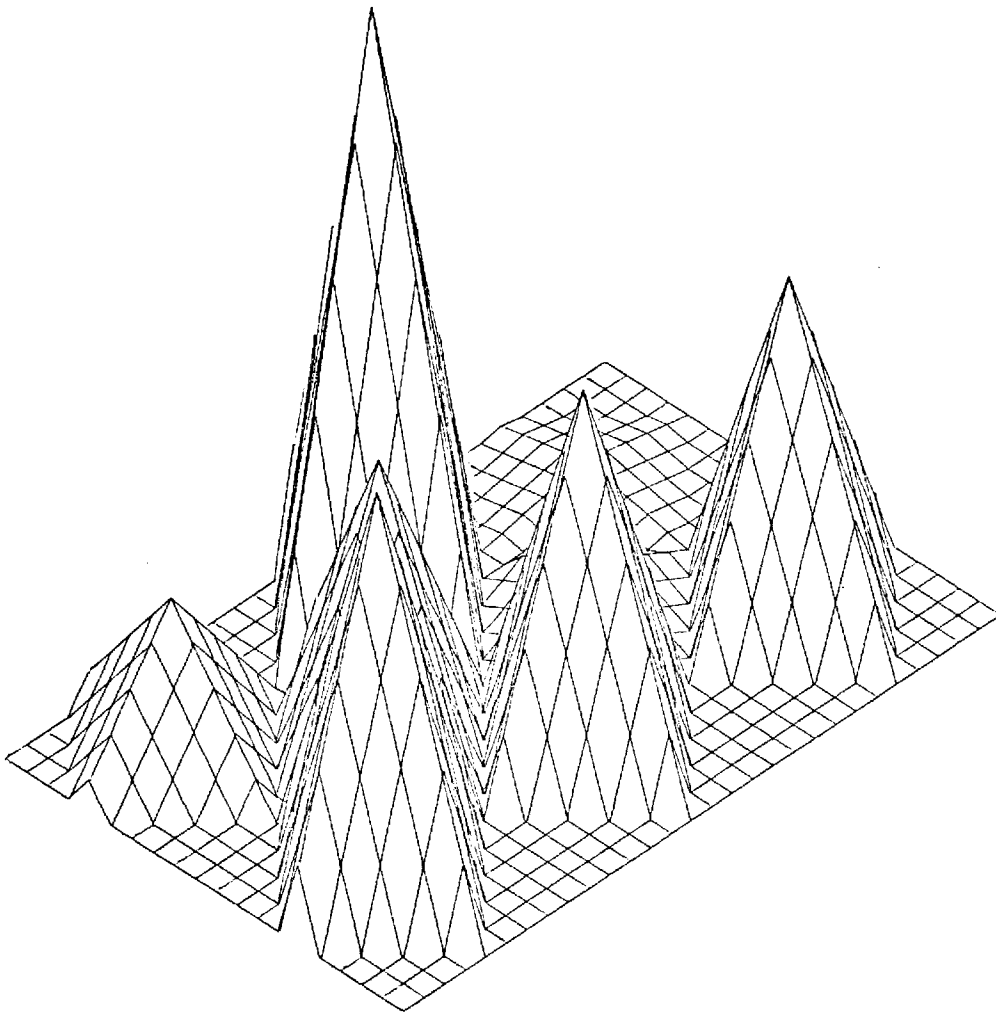
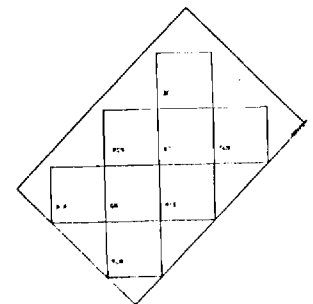


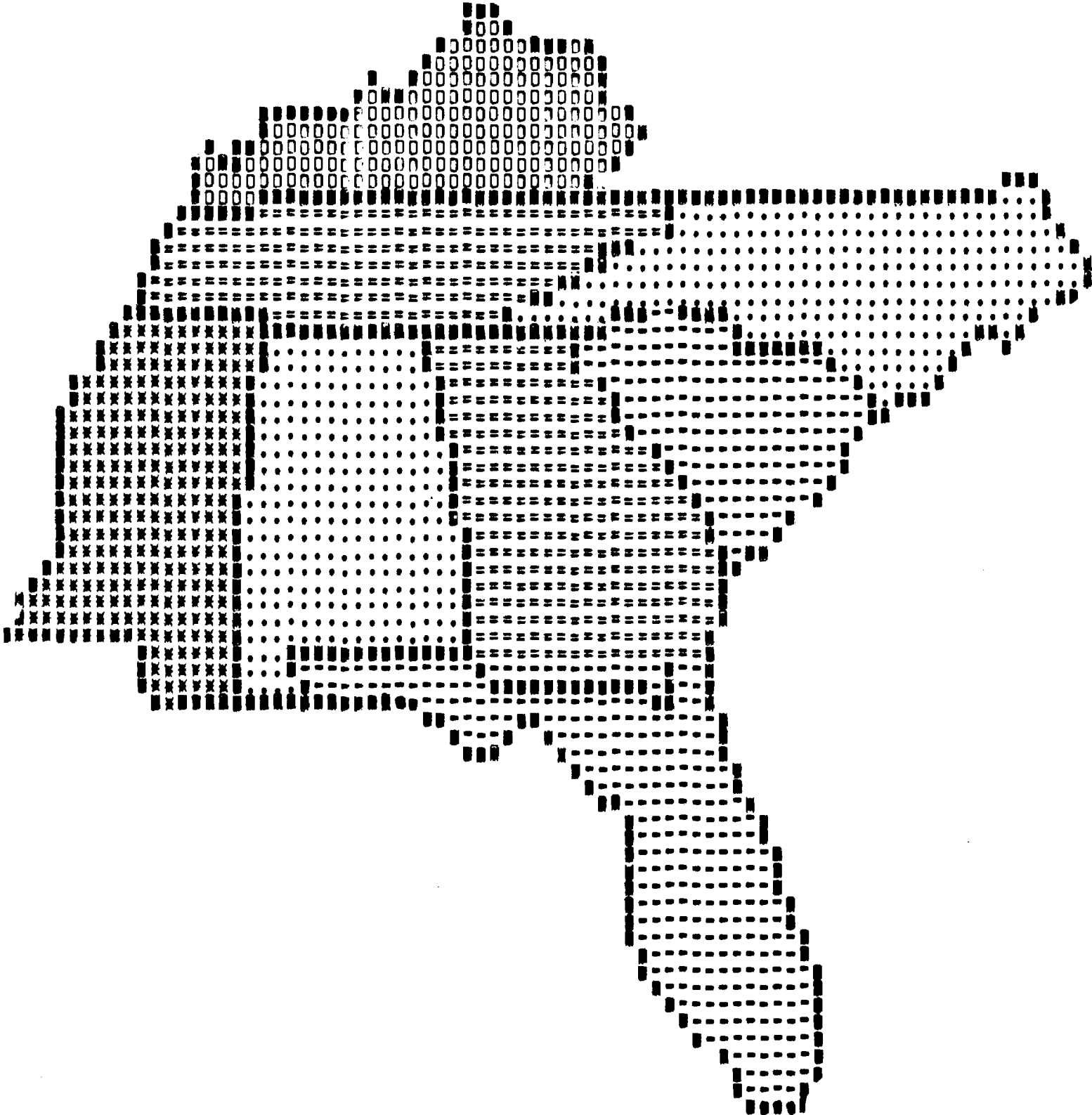
TABLE OF VALUES	
STATE	FACTOR USED
ALABAMA	1.40
FLORIDA	3.50
GEORGIA	2.60
KENTUCKY	5.40
MISSISSIPPI	3.20
Louisiana	3.50
N. CAROLINA	0.20
TENNESSEE	3.50

STATE LOCATION DATA MAP



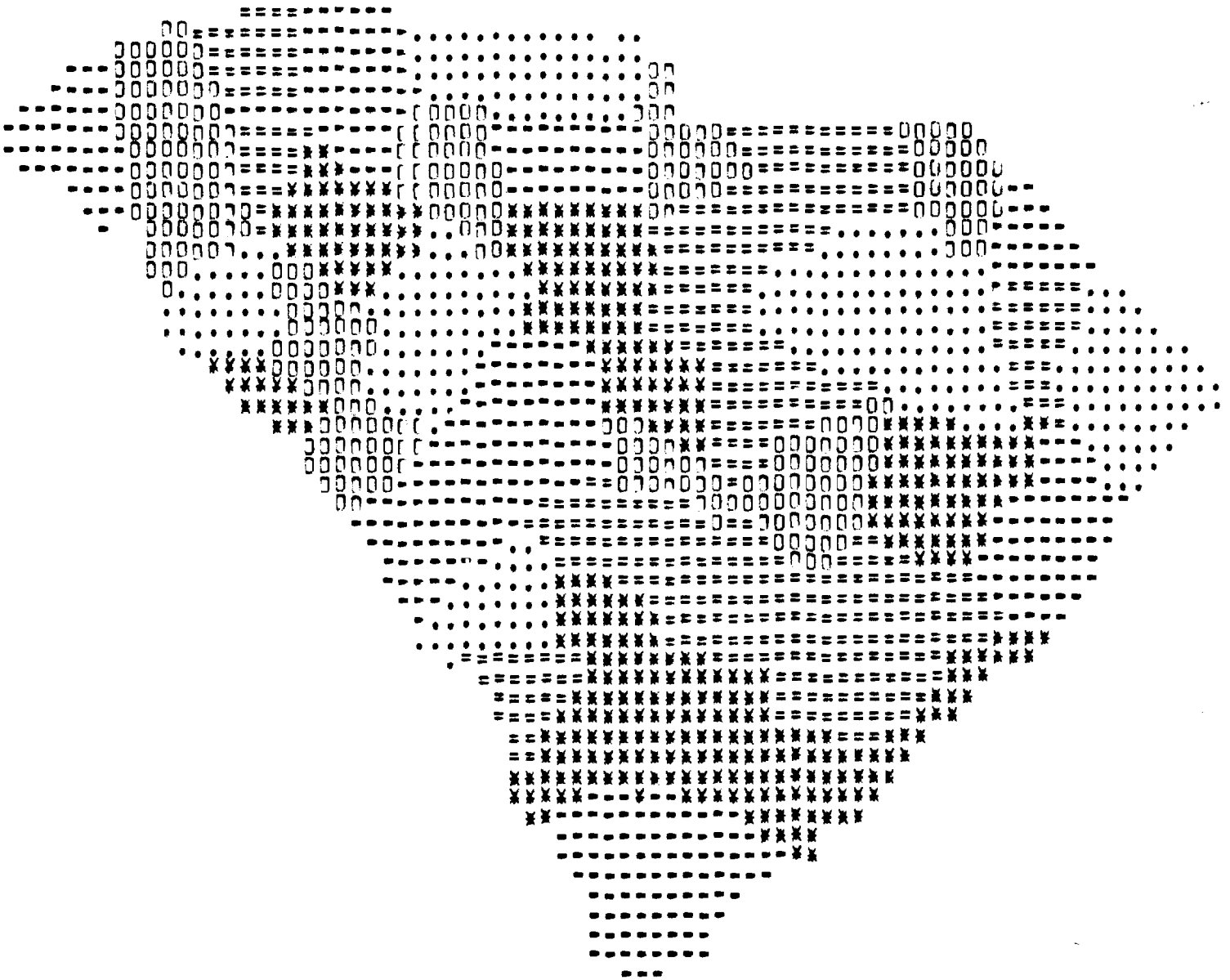
SAMPLE DENSITY MAP SHOWING VARYING PERFORMANCE AMONG
STATES ON SELECTED VARIABLE

(Dummy Data Used)



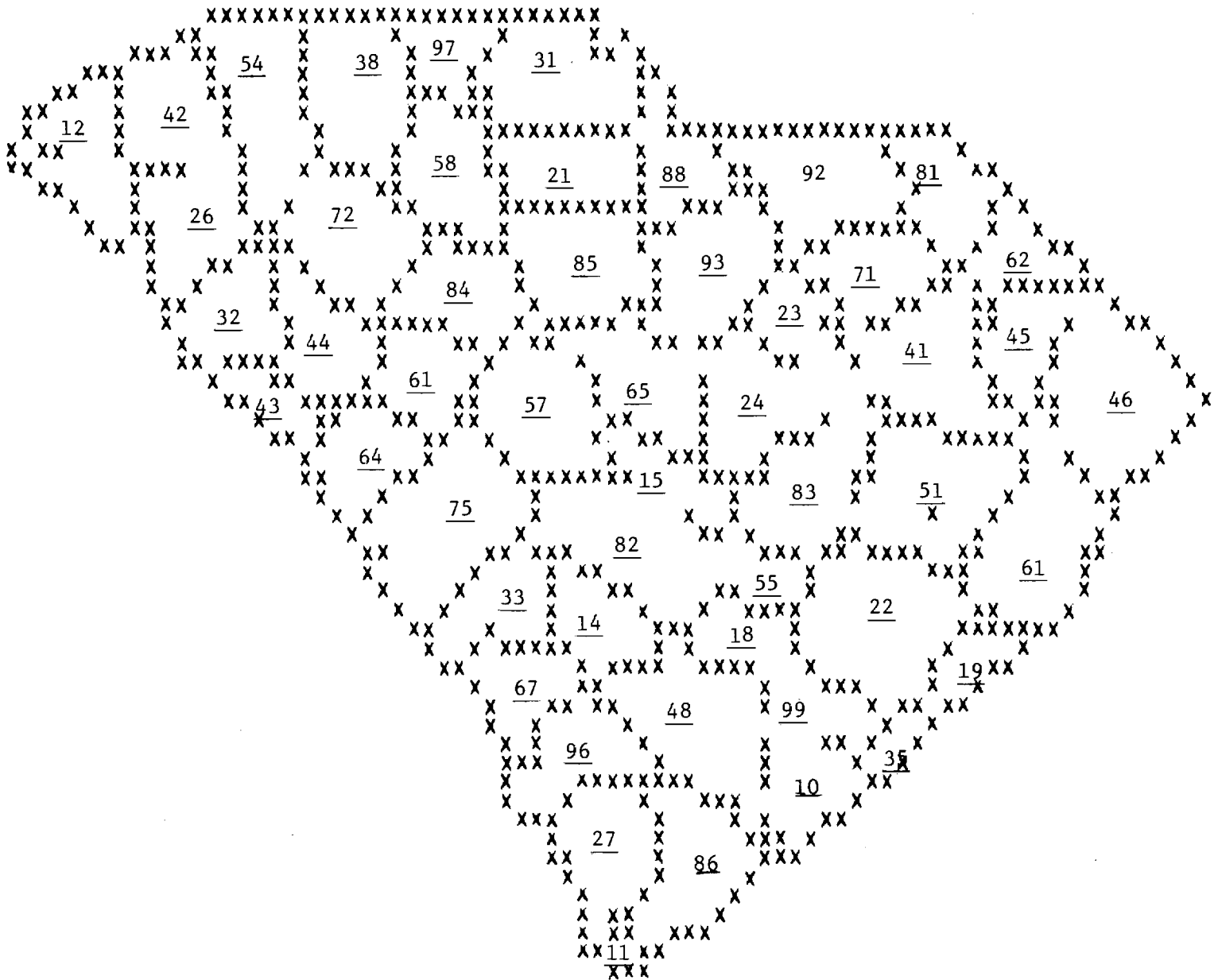
SAMPLE DENSITY MAP SHOWING VARYING PERFORMANCE AMONG
SOUTH CAROLINA COUNTIES ON SELECTED VARIABLE

(Dummy Data Used)



SAMPLE OUTLINE MAP SHOWING COUNTY-LEVEL NUMERICAL
DATA IN SOUTH CAROLINA

(Dummy Data Used)



5.3 DATA BASE DESIGN

In order to serve the purposes of regional-level program monitoring and evaluation, the data base developed by linking the eight state systems in a Regional Data Network should have five components: a patient data component; a demographics data component; a fiscal data component; a facilities data component; and a state planning data component.

Patient Data Component

It will be an important task of Phase II of this project to make a final determination of the types of patient data necessary to achieve the objectives of the RDN. Thus, the data elements listed below are not necessarily recommended for inclusion in a regional data base. Rather, they represent the maximal set of patient-level data items which could reasonably be developed through an integration of the existing state systems into a regional network; as such, their enumeration in this working document is made simply in order to facilitate discussion and review by appropriate administrators.

	<u>DATA ELEMENT</u>	<u>DATA TYPE</u>	<u>NO. OF CHAR.</u>	<u>COMMENTS</u>
Clinic	A003 STATE	N	3	
	A004 COUNTY NUMBER	N	5	
Patient	A013 STATE ASSIGNED NUMBER	N	9	
	A096 REGISTERED FOR MEDICAID	A	1	Y = "YES" N = "NO"
	A093 MEDICAID NUMBER	N	6	
	A009/11 SEX	A	1	F = 'FEMALE' M = 'MALE'
	A037/38 RACE	N	1	1 = 'WHITE' 2 = 'BLACK' 3 = 'AMERICAN INDIAN' 4 = 'MEXICAN AMERICAN' 5 = 'ORIENTAL' 6 = 'OTHER'
	122/123 114/115			
A010 ETHNIC (Latin American Origin)	A	1	Y = "YES" N = "NO"	

	<u>DATA ELEMENT</u>	<u>DATA TYPE</u>	<u>NO. OF CHAR.</u>	<u>COMMENTS</u>	
	A018/19	MARITAL STATUS	N	1	1 = 'MARRIED' 2 = 'NEVER MARRIED' 3 = 'SEPARATED' 4 = 'DIVORCED' 5 = 'SPOUSE DECEASED'
	A008	BORN ON	N	6	MO/DA/YR
	A016	WHAT COUNTY DO YOU LIVE IN	N	3	
	A017	HIGHEST GRADE OF SCHOOL COMPLETED	N	2	
	A095	CURRENTLY ON WELFARE	N	1	Family receiving financial assistance from the Dept. of Social Services: 0 = 'NO' 1 = 'AFDC' 2 = 'APTD' 3 = 'AB' 4 = 'OTHER'
	A116	FINANCIAL STATUS	N	1	
	A119	NUMBER IN FAMILY, HOUSEHOLD	N	2	
Visit	A002	TODAY'S DATE	N	6	MO/DA/YR
	A094/110	TYPE OF THIS VISIT	N	1	0 = 'SUPPLY ONLY (SCHED.)' 1 = 'INTAKE' 2 = 'REVISIT (ANNUAL CHECKUP)' 3 = 'REVISIT (NOT FIRST OF YEAR)' 4 = 'SUPPLY ONLY (UNSCHED.)' 5 = 'UNSCHED. REVISIT FOR ANNUAL CHECKUP' 6 = 'UNSCHED. NON PROBLEM' 7 = 8 = 'UNSCHED. PROBLEM VISIT (including Annual Checkup)' 9 = 'UNSCHED. PROBLEM REVISIT'
Preg. History	A097	NUMBER OF PREGNANCIES	N	2	
	A098	NUMBER BORN ALIVE	N	2	
	A029	DATE LAST PREGNANCY ENDED	N	6	MO/DA/YR
	A100	OUTCOME OF LAST DELIVERY	N	1	1 = 'BORN ALIVE - TERM' 2 = 'BORN ALIVE - PREMATURE' 3 = 'BORN DEAD' 4 = 'MISCARRIAGE/ABORTION' 5 = 'NEVER PREGNANT' 6 = 'OTHER' 7 = 'UNKNOWN'
	A032	NUMBER OF FETAL DEATHS	N	2	
	A031	NUMBER OF PATIENT'S CHILDREN ALIVE NOW	N	2	

	<u>DATA ELEMENT</u>	<u>DATA TYPE</u>	<u>NO. OF CHAR.</u>	<u>COMMENTS</u>	
Contra- ceptive History	A105	EVER USED ANY METHOD TO PREVENT PREGNANCY	A	1	Y = "YES" N = "NO"
	A107/131	METHOD MOST USED IN LAST 2 YEARS	N	2	00 = 'NONE' 01 = 'ORAL' 02 = 'IUD' 03 = 'DIAPHRAGM' 04 = 'FOAM' 05 = 'RYTHM' 06 = 'CONDOM' 07 = 'INJECTION' 08 = 'STERILIZATION' 09 = 'OTHER' 10 = 'METHOD NOT KNOWN'
	A040				
	A039				
	A044				
	A042				
	A046				
	A043				
	A041				
	A045				
	A047				
	A048				
	A049	WHO PRESCRIBED LATEST METHOD	N	1	1 = 'PRIVATE DOCTOR' 2 = 'PUBLIC CLINIC' 3 = 'DRUGGIST' 4 = 'OTHER'
A050					
A051					
A132					
Services Provided	A026	COUNSELING	N	1	1 = 'CONTRACEPTION COUNS.' 2 = 'STERILIZATION COUNS.' 3 = 'INFERTILITY COUNS.' 4 = 'ABORTION COUNS.' 5 = 'SOCIAL SERVICES COUNS.' 6 = 'OTHER'
	A027				
	A033				
	A028				
	A023				
	A034				
	A067	BLOOD PRESSURE	A	1	Y = YES N = NO
	A074	V.D. BLOOD TEST	A	1	Y = YES N = NO
	A073	HCT OR HGB	A	1	Y = YES N = NO
	A129	BLOOD TEST	A	1	Y = YES N = NO
	A128	VDRL	A/N	2	1. character: Y=YES 2 ch.: 0=neg. result N=NO 1=pos. result
	A069	PAP SMEAR	A/N	2	1. character: Y=YES 2 ch.: 0=neg. result N=NO 1=pos. result
	A070	G.C. - culture	A/N	2	1. character: Y=YES 2 ch.: 0=neg. result N=NO 1=pos. result
	A068	BREAST	A	1	Y = YES N = NO
	A071	PELVIC EXAM	A	1	Y = YES N = NO
	A072	URINALYSIS	A	1	Y = YES N = NO
	A075	SICKLE CELL ANEMIA	A/N	2	1. character: Y=YES 2 ch.: 0=neg. result N=NO 1=pos. result
A076	STERILIZATION	A	1	Y = YES N = NO	
A077	INFERTILITY	A	1	Y = YES N = NO	
A079/80	PREGNANCY TEST	A/N	2	1. character: Y=YES 2 ch.: 0=neg. result N=NO 1=pos. result	
A078	OTHER	A	1	Y = YES N = NO	

	<u>DATA ELEMENT</u>	<u>DATA TYPE</u>	<u>NO. OF CHAR.</u>	<u>COMMENTS</u>	
Contra- ceptive Methods Used After Visit	A061	METHOD AFTER VISIT	N	1	0 = 'NONE'
	A053				1 = 'ORAL'
	A052				2 = 'IUD'
	A057				3 = 'DIAPHRAGM'
	A055				4 = 'FOAM'
	A059				5 = 'RYTHM'
	A056				6 = 'CONDOM'
	A054				7 = 'INJECTION'
	A058				8 = 'STERILIZATION'
	A060				9 = 'OTHER'
	A062	REASON FOR STOPPING METHOD	N	1	1 = 'PREGNANT - PLANNED'
	A063				2 = 'PREGNANT - UNPLANNED'
	A064				3 = 'SEEKING PREGNANCY'
	A065				4 = 'MEDICAL REASON'
	A066				5 = 'OTHER'
	A087	REFERRED ELSEWHERE	N	1	1 = 'SOCIAL SERVICES'
	A088				2 = 'MEDICAL SERVICES'
	A089				3 = 'STERILIZATION'
	A090				4 = 'ABORTION'
	A091				5 = 'INFERTILITY TREATMENT'
	A092				6 = 'OTHER'
	A0135	PATIENT SEEN BY	N	1	0 = 'PHYSICIAN'
					1 = 'P.H.N.'
					2 = 'F.P.H.N.'
					3 = 'NURSE MIDWIFE'
					4 = 'L.P.N.'
					5 = 'SOCIAL SERVICES'
					6 = 'AIDE'
					7 = 'CLERK'
					8 = 'NUTRITIONIST'
					9 = 'OTHER'
	A101	MAIN SOURCE OF REFERRAL	N	2	00 = 'SELF'
					01 = 'OUTREACH WORKER'
					02 = 'OTHER FP CLINIC'
					03 = 'HOSPITAL OR OTHER HEALTH AGENCY'
					04 = 'PRIVATE DOCTOR/NURSE'
					05 = 'WELFARE AGENCY'
					06 = 'ANOTHER CLINIC PATIENT'
					07 = 'FAMILY OR FRIEND'
					08 = 'TV, RADIO, PAPER AD'
					09 = 'OTHER'
					10 = 'UNKNOWN'
	A086	DATE OF NEXT APPOINTMENT	N	6	MO/DA/YR
	A081	PURPOSE OF NEXT APPOINTMENT	N	1	1 = 'SUPPLY VISIT OR STRING CHECK'
	A082				2 = 'ANNUAL EXAMINATION'
	A083				3 = 'MEDICAL PROBLEM'
	A084				4 = 'OTHER'
	A085				5 = 'NO NEXT APPOINTMENT'
	A112	REASON FOR DISCHARGE	N	1	1 = 'STERILIZATION'
					2 = 'MENOPAUSE'
					3 = 'MEDICAL REASON'
					4 = 'PATIENT MOVED'
					5 = 'PATIENT LOST INTEREST'
					6 = 'PREGNANCY DESIRED'
					7 = 'PREGNANCY UNPLANNED'
					8 = 'UNKNOWN'

Demographic Data Component

In order to contrast target population characteristics with the characteristics of patients served by the family planning program, it is important to build into the system a capability for handling both DPV-type estimates and selected census-based demographic data. It would appear prudent, however, to establish stringent criteria for the selection of general demographic data, lest this component of the system should develop to a size entirely out of proportion to its place in the overall system and beyond what is required for reasonable management and evaluation purposes. A first-cut listing of demographic-type data elements is given below, for review and discussion.

<u>DATA ELEMENT</u>	<u>DATA TYPE</u>	<u>NO. OF CHAR.</u>	<u>COMMENTS</u>
AGE GROUPS: COUNTY LEVEL			
ALL RACES: FEMALE:			
15 - 19	N	5	
20 - 24	N	5	
25 - 29	N	5	
30 - 34	N	5	
35 - 39	N	5	
40 - 44	N	5	
45 - 49	N	5	
50 - 54	N	5	
55 - 59	N	5	
WHITE: FEMALE:			
See ALL RACES: FEMALE:	N	45	
NEGRO: FEMALE:			
See ALL RACES: FEMALE:	N	45	
ALL RACES: MALE:			
See ALL RACES: FEMALE:	N	45	
WHITE: MALE:			
See ALL RACES: FEMALE:	N	45	
NEGRO: MALE:			
See ALL RACES: FEMALE:	N	45	
TOTAL COUNTY POPULATION	N	7	
NUMBER OF FAMILIES WHOSE INCOME IS LESS THAN 125% OF POVERTY LEVEL	N	6	

Fiscal, Facilities, and State Plan Components

Selection of the data elements which should be included in the data base to reflect the essential characteristics of fiscal performance, facilities management, and plan monitoring will be an important part of Phase II's work, and need be discussed here in only the broadest of terms. In general, it will be important to identify the desired data elements as soon as possible in Phase II, and to decide the amount of detail and level of aggregation appropriate to each type of data element. The most prudent course of action would probably be to keep the amount of detail (on, for example, expenditure breakdowns) at a bare minimum until the RDN has been in operation for at least a year, and to decide at that time whether a finer resolution of information would better serve the purposes of program evaluation and monitoring. As for level of aggregation, it would appear reasonable to suggest that fiscal and state plan information in the data base might best be aggregated at the state level, whereas facilities and staffing data might be more appropriately collected at the individual service site level.

5.4 SOFTWARE CONSIDERATIONS

The purpose of this section of the report is to present the results of a survey of existing, commercially available statistical packages and data management systems that have potential relevance to the design of the Regional Data Network. When these results are viewed in the light of the perceived needs and specific resources of regional administrators, it should be possible to determine which, if any, existing software packages will serve the purposes of the evaluation component of Region IV family planning program activities.

Statistical Packages

There are a number of existing statistical computer program packages whose use could both simplify and enhance the processing of the family planning data being collected by the states on their patients, clinic facilities and staffing patterns. In addition, the use of one or more of these packages would also give the RDN adequate capability for incorporating census-type demographic data to be linked with the family planning program data base.

Before discussing particular statistical packages, a brief review will be made of the basic capabilities of such packages, as well as of the program categories into which such packages generally fall.

A general-purpose statistical package generally includes the following processing capabilities:

* Basic Data Screening. Included here are routines for accomplishing the following: frequency plots and bivariate frequency plots; tabulation and cross-tabulation on the basis of one to N (usually 6-8) criterion variables; computation of basic descriptive statistics, such as means, standard deviations, shape characteristics (e.g., symmetry and kurtosis), and so forth; and routines for the transformation and coding of variable values.

* Utility Routines. These typically include programs for sorting; selecting observations; generating random numbers; manipulating matrices;

and computing statistical density and distribution functions.

* Regression ("Curve Fitting") Routines. Included here would be program capabilities for performing multiple linear regression; step-wise regression; simple linear regression with various options (such as multiple dependent-variable observations); polynomial regression; and nonlinear regression.

* Analysis of Variance. This is the basic method for analyzing effects of, or errors due to, several variables or sources in one experiment arranged in blocks, or other patterns. Usually routines are available to handle standard designs such as completely randomized, randomized complete and incomplete blocks, Latin and Graeco-latin Squares, and factorial design. It is also important that the program can handle missing data values. Most packages contain a routine for testing general linear hypotheses, although many general users consider this procedure too difficult for them to interpret the results.

* Multivariate Analysis. Included in this type of analysis are various routines concerned with estimation and hypothesis testing related to the multivariate normal distribution. Principal component analysis; factor analysis; and canonical and discriminant functions are among the leading examples of this type of analysis.

* Distribution Free Methods of Analysis. These routines include a very large range of methods for dealing with count data and data for which the normality distribution assumption cannot be made. They include special types of correlation measures, contingency table analysis, and various analogues of the t-test and the analysis of variance.

* Miscellaneous Routines. Examples of miscellaneous routines would be time series analysis, Guttman scalogram analysis, survival analysis, and probit analysis.

* * * * *

Statistical packages can consist of a collection of independent programs, of a set of subroutines, or of one large multifunction program. They can be written for a specific machine configuration or for a class of machines. The relative complexity of the package is classified from extreme simplicity

to great complexity, but the ease of use is not necessarily related to this classification of the package; that is, an extremely complex package might be very simple to use. Packages are usually designed with a particular type of user in mind. For example, some are designed primarily for the statistically unsophisticated investigator; others are designed for use by the professional statistician; while still others are intended for use by computer programmers. In some instances, the package may be used at several levels of user sophistication.

Statistical packages may be classified into five general types: (1) sets of general, independent programs; (2) sets of subroutines; (3) single, multiple-purpose programs; (4) statistical compilers; and (5) interactive time-sharing systems. A brief description of each of the five types follows.

(1) Independent Program Packages. Each program in this type of package is complete in itself, and performs one basic analysis, such as a complete, simple linear regression analysis. Some packages of this type contain a collection of fifty or more such independent programs. The programs in the package are generally constructed so that they all use the same input techniques, have consistent user documentation, and are coded by a similar method in the same computer language. They are also usually general-purpose in nature and are characterized by having a parameter or definition card as an initial input so that the number of data points to be processed, or other defining information, can be given for a specific job. In most instances, packages of this type are easily mastered by the non-programmer, and the programs allow some flexibility in the input format of the data to be processed. One of the drawbacks is that multiple computer job setups and runs are necessary in performing more than one type of analysis.

(2) Subroutine Packages. These packages are generally more attractive to users who have programming abilities. They are usually a set of input-free subroutines, for which the user must write a main program for data input. Subroutine packages contain either subprograms that perform complete analysis and output the results or routines that must be combined to perform a particular analysis. Such packages offer a user the flexibility of tailoring an analysis to a specific job, although this requires considerable programming

effort. Subroutine packages are most desirable for repetitive analyses that require multiple runs of various independent programs; they also can often implement specialized routines that are not directly available in an independent program package and for which the user would otherwise have to write a complete program.

(3) Single, Multiple-Use Programs. Two types of statistical packages fall within this general classification: the single, large program that performs a variety of analyses, and the executive system that automatically links a set of subroutines to perform an analysis or sequence of analyses. The single, large program can range widely in complexity -- from the fairly simple concept of producing the same sequence of output from each set of data supplied, to a more sophisticated program concept by which a sequence of operations can be performed based on selection of option switches or on decisions made at intermediate programming stages. This is an independent item and does not depend on the nature of the linking loader. It is efficient from the user's standpoint in that multiple trips to the computer may be avoided.

The "executive package" accepts a sequence of easily coded instructions in either an English-based language or a sequence of codes, and generates input handlers, calls to, and linkages between, various subroutines. This type of package is easy to use and each analysis can be tailored to the specific job. The package itself is extremely sophisticated; only a few operational systems of this type exist. It should be noted that such packages, because their interaction with the central system is usually extensive, may be expensive to maintain.

(4) Statistical Compilers. Although not strictly a package, the statistical compiler can be very useful in generating a specific analysis or writing a package. This type of system includes a high-level language similar to Algol or Fortran and a translation program to compile the language. The statistical compiler is useful to the statistician who wants to write a program to perform a nonstandard analysis without being bothered by much programming detail. Standard simple analyses can be ordered in many cases with a single command.

(5) Interactive Time-Sharing Systems. Time-sharing systems place the user in direct communication with the computer by means of a teletypewriter,

console typewriter, or CRT. Use of machines in this manner is becoming popular with programmers for program development, and with scientists and engineers who use it like a sophisticated desk calculator. Various types of statistical packages have been developed for operation in this mode. These packages range over all of the types presented above; they are predominantly sets of programs, but include sets of subroutines and single, large programs. Most of these programs are written to accept from the user the various elements of data needed to perform the given analysis; the programs can operate on data entered from a keyboard, or on previously stored data from a secondary storage device such as a tape or disk. One obvious advantage of time-sharing is that it allows analyst intervention at intermediate stages in the flow of the analysis.

* * * * *

Given below is a brief description of a number of statistical packages which might be considered for use in the Regional Data Network. It is most likely that no single package can completely satisfy the needs of the RDN, and so the use of several may have to be considered if the resources should become available. It should also be kept in mind that packages are acquired not to be used intact, but to eliminate the necessity for reprogramming highly complex statistical and mathematical routines that already exist.

1. DYSTAL II.

This high-level programming language, developed by J. M. Sakoda, is an extension of Fortran to include dynamic storage allocation, creation of complex data structures, and list handling, along with the standard features of Fortran. It is written in a basic Fortran IV so that it has a high degree of machine independence. It has application in many contexts, but is particularly useful for writing statistical programs and packages. The language includes commands (essentially subroutines) to rank a list of variables, to sort a set, and to compute sums, sums of squares, and variances of sets of variables. Also included are commands to form cross-products and correlation matrices. Dynamic storage allocation is an important addition, in that it enables statistical routines to be written so that the storage required for a particular run is all that is actually used. Dystal II can be very useful for special-purpose statistical routines. It has been implemented on the IBM 360 and 1130.

2. SPL, STANDARD PROGRAM LIBRARY.

This package of general-purpose statistical programs is specifically designed for use in agricultural research, but has applications in many other fields as well. It includes a general-purpose, least-squares ANOVA program, various correlation programs, probit analysis, logit analysis, and various plotting programs. The programs are written in Fortran and 1620 SPS for use on a 1620 or a 360/30 with emulator.

3. 1108 STAT-PACK.

This package of Fortran V subroutines for the U-1108 computer is extremely comprehensive. The subroutines are designed to be called by a user's Fortran V program, with all input to the subroutines passed as arguments, which makes them input-independent. The output from those subroutines that produce extensive results is printed, while others pass the output back to the calling program as arguments. The library contains 91 subroutines.

The analysis of variance section includes most of the standard designs such as factorial, randomized block, Latin square, split-plot, and nested. Nonstandard designs can be handled by means of a general linear hypothesis routine. This section does need a routine for multiple range tests or multiple linear contrasts. The analysis of variance tables are produced along with F statistics and probability levels. The section on regression, multivariate analysis, and factor analysis are standard. The section on time series analysis includes moving averages, trend elimination, autoregression, autocorrelation, and power density analysis.

In general, this package is very useful, but it is limited to the programmer or programming user, since the subroutines must be called by a main program that does most of the input and output. At the same time, this feature is a strong point in terms of flexibility.

4. USS STAT.

This set contains statistical programs not usually found in a statistical package, including: factorial analysis of variance, dimension reduction, incomplete-data regression, adaptive forecast evaluation, multistate regression, time series analysis with multiplicative seasonal weights, homogeneity tests, Wald statistics, analysis of similarity measures, Gray code regression, extended multigroup discriminant analysis, and optimum subset regression. They are written in a subset of Fortran II.

5. SOUPAC. Statistical Oriented Users, Programmers, and Consultants.

A collection of statistical and data manipulative programs developed for agricultural, behavioral, and social scientists. The system operates under a submonitor so that input consists only of a program control card and data;

various procedures can be combined by means of the control cards. The system includes such procedures as analysis of variance, autocorrelation and spectral analysis, biserial correlation, canonical correlation, interactive factor analysis, cross-tabulation, matrix operations and transformations, as well as many other procedures for building complex analyses.

6. TSAR. Tape Storage Data Analysis and Retrieval.

The TSAR system was originally developed at Duke University; a Wayne State University version is designed to process medium-size tape data files, including the generation and updating of data tapes and the performing of various types of analyses. Its primary function is to automate counter/sorter methods of generating frequency tables and cross-tabulations, but its capabilities go much beyond that. The system contains extensive transformation and data reduction routines, and also includes as subroutines various statistical analysis procedures, such as analysis of covariance; one-, two-, and three-way analysis of variance; the Kolmogorov-Smirnov test; step-wise regression; and plotting. The system was originally written for use on the IBM 7070 computer, but it has been extensively updated for use on the IBM 360/50.

7. STAT 3600.

This set of 14 large programs written for the CDC 3600 performs various statistical calculations. The programs are characterized by extreme versatility and complete documentation. They are written so that persons unfamiliar with programming can run them easily; the program features include natural language parameter definition, cross-checking of parameters and data, flexible input, and the ability to combine system routines with others or with user-written routines.

8. NPSTAT. Nonparametric Statistical System.

This system handles various nonparametric analyses, and consists of a single main program with called subroutines.

9. MANOVA. Multivariate Statistical Programs.

Written in Fortran IV for the 360, 1130, and 1108, this set of programs and subroutines performs various multivariate statistical calculations. It includes complete programs treating: canonical correlation; discriminant function for two groups; factor analysis; multivariate analysis of variance and one-way analysis of covariance, with or without equal numbers of observations in the cells; regression; contrasts; and transformations. The routines are well implemented, and the output labeling is very complete. (Few of the packages have a multivariate analysis of variance program.) There are 12 subroutines to perform various matrix calculations, probability function

evaluation, sorting, and equation solution. These can be used for performing additional statistical calculations and for preprocessing of data prior to use of the main program.

10. AGSTAT and RASS. Texas A & M University Statistical Program Library.

This library of main programs handles a wide variety of statistical analyses. RASS is the time-sharing version of the set of programs.

11. STAT-D and STAT-K. Honeywell Series 200 Statistical Packages.

This set of 17 general-purpose statistical programs (five in Stat-D and 12 in Stat-K) have a common input routine. Stat-K performs certain cleanup functions, such as transformations and restrictions on the data. The subroutines are designed to be called by a user's program; all input to the routines is returned to the calling program except that of the graphic output routines. This feature provides great flexibility for a programmer or programming statistician in producing an analysis.

12. MATHPAC. GE-400 Series, Honeywell Information Systems, Inc.

This is a package of Fortran II and assembly language programs for the 400 series computers. It covers several mathematical fields, including matrix algebra, solution of simultaneous equations, curve fitting, eigenvalues, differential equations, and roots of polynomials, and contains certain statistical programs as well. The matrix programs are subroutines useful in statistics; they include addition, subtraction, multiplication (both matrix and scalar), transposition, and inversion. Because it is limited, the package should perhaps not be called a statistical library, but the programs provided are well written and completely documented.

13. OMNITAB II. A Computer Program for Statistical and Numerical Analysis.

This system is designed to be used by nonprogrammers for solving many of the computational problems in basic and applied research. The original version was written primarily in assembly language for the IBM 7094; it has since been adapted for the UNIVAC 1108 and the IBM 360/65. The major areas covered by the system are numerical analysis (particularly function tabulation), matrix algebra, statistical analysis, and report writing. The system is implemented to run in an interpretive mode as a subsystem, acting on commands given in an English sentence structure. It is designed to be used analogously to a desk calculator.

The statistical portion of the system calculates many general statistical parameters, in addition to measuring and plotting. In the most powerful section, various regression analyses can be performed, including both linear and nonlinear regression with one or more independent variables. It is also possible to trans-

form the input data and obtain tables and graphs of the data, the regression function, and the residuals, along with the standard output items such as the variance/covariance matrix, etc.

This system is very useful. It is one of the few that comes close to being a unified system approach, rather than just a library, for general statistical analysis. The system was extensively revised when implemented for the Univac 1108.

14. BMD. Biomedical Computer Programs.

This set of statistical programs is perhaps the best known of all the user-written systems, and has been used extensively on large computer systems. The programs were originally written in Fortran II with some FAP subprograms for the IBM 7090(94), but they have since been converted for use on several other machines. A completely revised second edition is now written entirely in Fortran IV; it operates on the IBM 360 series (requiring 256K bytes to compile under FORTRAN V), and has been converted for other third generation machines as well. All of the programs are of a general nature and are quite extensive in their coverage. Great flexibility of input is achieved by means of Fortran card format statements read at run time, as well as standard data forms; the output is labeled in a very readable manner.

Since this package occupies a special place in any survey of statistical packages, some comments on its features are in order. The special program section contain ten programs, including life-table, bio-assay and contingency table, and Guttman-scale analysis. The section on time series analysis covers amplitude and phase analysis as well as auto-covariance and power spectral analysis. The section on variance analysis includes programs for handling one-way designs, factorial designs, multiple range tests, and covariance analysis. Also included is an especially powerful general linear hypothesis program, which can be used to analyze many designs. Almost all of the programs have the capabilities to perform transformations on the input data and to accept data from cards or tape. The user documentation for the package is admirably complete and understandable.

The BMD X-series programs are described in a supplemental manual published in 1969. These programs have been developed since September 1965, and in some cases supersede earlier BMD programs. The additional capabilities provided by the X-series programs strengthen the basic BMD package considerably. At present a BMD P-series is under development.

15. P-STAT.

This system, developed for the IBM 360 and 370, handles statistical analysis and file management of social science data. It has the capacity for handling and maintaining large data files on tape, and operates under its own executive routine, which allows the putput of one run to be input to another program and certain operations to be shared by the various programs. The system includes capabilities for handling matrix operations, various types

of intercorrelation, regression, factor analysis, and rotations. Missing data are permitted in many of the routines. The system has extensive data tape generating, editing, and updating capabilities. The major emphasis of the statistical programs is on correlation-type techniques involving missing data; included are biserial, conical, and tetrachoric correlation, as well as Pearson correlation, for complete and incomplete data. There are extensive factor-analysis programs, and multiple regression, multiple discriminant function, and frequency distribution programs.

16. STAT SYSTEM/1130, IBM 1130.

The IBM 1130 statistical system is a unified system of four basic statistical techniques, written mainly for use by the non-programmer in performing analyses. The programs are written in 1130 Fortran with some assembly language subroutines, and operate under the supplied monitor system. The user need only provide program option parameter cards, data formatting specifications, and his data. The analysis of variance routine uses a general factorial technique that allows analysis of single classification, two-way classification with cell repetition, randomized block, split-plot, and split-split-plot designs, as well as standard factorials. The other routines are very complete for their respective analyses. This is very good system designed for the minimal-hardware configuration.

17. SSP/1130, IBM 1130 Scientific Subroutine Package (1130-CM-02X).

The IBM 1130 scientific subroutine package is a set of 1130 Fortran subroutines for use by programmers in various areas of scientific programming. It includes extensive matrix manipulation, special function evaluation, and integration, as well as statistics. The subroutines are completely free of external input/output, all data and results being passed as arguments between the calling program and the subroutine. The non-parametric statistics section includes contingency table tests, the Mann-Hitney U-test, the Friedman two-way analysis of variance, the Cochran Q-test, the Spearman rank correlation, and the Kendall rank coefficient of concordance. The time-series section includes auto- and cross-covariance, and triple exponential smoothing. The documentation is consistent and quite complete. The subroutine concept makes it quite flexible for obtaining analyses in almost any combination and sequence subject to core limitations. It would be difficult for a nonprogrammer to use this package, but a person knowledgeable in Fortran could assemble a program in a reasonable amount of time using these subroutines. It is continually being updated and improved.

18. SSP/360, IBM System/360 Scientific Subroutine Package (360A-CM-03X).

The System/360 scientific subroutine package is a set of Fortran IV subroutines written in a subset of the language so as to be compatible with all Fortran processors in the 360 line; it also gives the package a greater degree of machine independence. A superset of SSP/1130, it includes many

useful mathematical subroutines in the areas of matrix operation, integration and differentiation, solution of differential equations, Fourier analysis, linear equations, and polynomials. In addition, the routines can be changed from single to double precision fairly easily; the package has uniform documentation including machine-processed flowcharts. All arrays are one-dimensional, and fairly extensive sample programs are included demonstrating the use of the subroutines in various combinations. The package is continually being updated to conform to new computing machines and should serve the computing community for some time to come.

19. SSP PL/I, Scientific Subroutine Package for PL/I(OS) (360A-CM-07X).

Many of the statistical routines from the SSP/360 are available in a PL/I version. The programs are I/O-free, PL/I procedures that are combined with a user's input, output, and computational routines to meet his individual program requirements.

20. RCA-STAT, RCA SPECTRA 70. Real Memory Statistical Programs (DOS, TDOS, TOS), Statistical System, and Virtual Memory Statistical Programs.

This set of programs functions under a special operating system so that certain programming functions such as input/output, error recovery, and operating procedures can be shared. It includes a "conversion" of BMD as a subset and a "redesign" of SSS70. The virtual memory system operates as an interactive system on the Spectra 70/46 and 61.

21. PSP. A Package of Statistical Programs.

Various general-purpose statistical programs have been prepared by the Numerical Analysis and Data Processing Section. These were originally written for the IBM 7074, but have now been revised for the IBM 360/50, using either Fortran IV or PL/I. Some of the major programs are: GAVIAL, algorithms for analysis of variance and covariance of incomplete block and lattice designs; HELARCTOS, a multiple linear regression program; MOUFLON, a linear regression model building system; ELAFOS, frequency table, chi-square analysis; APTERYX, factor analysis; TARSIER, nonlinear regression (Hartley algorithm); and AARDVARK, analysis of variance--a general system for all balanced complete structures and certain nonorthogonal cases.

22. ASCOP. A Statistical Computing Procedure.

ASCOP is a statistical and data management computing system developed and written by B.E. Cooper of the Atlas Computer Laboratory, Science Research Council, Chilton, Didcot, Berks., England. This is a compiler that gives the user the capability to perform a wide range of data-editing operations, in addition to many of the standard statistical analyses. Supplementary FORTRAN routines can be added to ASCOP quite easily.

23. BOMM.

BOMM is a system strictly for time series analysis. It may be obtained from SHARE or Co-op.

24. TSAR. Tele-storage and retrieval system. Dr. T. M. Gallie, Computing Laboratory, Duke University, Durham, N.C. 27706.

This is another version of the system described above in abstract.

25. STAT-PACK. A Biostatistical Programming Package.

This package contains 56 statistical programs written in a subset of FORTRAN II; it was designed to run on almost any machine with 40K characters or 6K words of storage with a minimum of modification. The programs run without modification on an IBM 1620, 1130, and an XDS Sigma 7, but they can be modified easily for other systems in the same class or larger. The programs are designed for card input and printer output, but flexible input can be achieved by means of a user-supplied read subroutine.

The section on regression is quite complete, including programs for linear and polynomial regression, with confidence intervals and analysis of individual terms in polynomial regression, as well as the usual multiple-linear and stepwise regression calculations. Other regression programs include pooling of groups and multiple dependent variable linear regression, as well as a general nonlinear regression routine that accepts the nonlinear function to be fitted by means of a subroutine. The section on analysis of variance is fairly limited due to the core size restriction, but it does include some standard designs. The section on tests of hypotheses includes routines for Duncan's multiple range test, the paired t-test, Bartlett's test, and the Kolmogorov-Smirnov and chi-square goodness of fit tests. The other sections are fairly standard. The outputs of all programs are extensively labeled for the user. The programs can be used by a nonprogrammer if his data fit a standard form; otherwise, a programmer must write a read subroutine.

26. GENSTAT IV.

This statistical processing system was initially developed at the Waite Agricultural Research Institute, South Australia, for a CDC 3200. The system is organized around the concept of a standardized, in-core data file to enable flexible linkage of operations. Some 30 instructions are provided to perform I/O, transformation, and editing operations. All instructions are essentially free-format, and conform to a language-like syntax. The system provides consistency checks, and all output is well labeled in accordance with user-input information.

27. SPSS Statistical Package for the Social Sciences.

This is one large program consisting of several hundred subroutines totaling about 27,000 lines of code. The 360 version is maintained at Norc. The versions for the CDC 6000 series and large 3200-3600 machines are available from Vogelback Computing Center, Northwestern University, Evanston, Ill. A PDP-10 implementation also exists (Digital Equipment Corporation, Palo Alto, Calif.).

28. MSU STAT.

This large collection of programs covers a wide range of statistical analyses including econometrics, nonparametric analyses, and multivariate analysis, as well as data management. Features of the system include: free-field control cards; a Backus normal form generator for logic tables, which is used by the system for interpreting control cards; dynamic allocation of storage; an interface to Micris standard data sets; and modular design to facilitate the addition of new statistical routines to the system.

29. STATJOB.

The Statjob statistical program system is a unified set of flexible statistical routines written for the CDC 3600 and Univac 1108. The Statjob system and its constituent programs have the following features: common input deck structure; extensive error checking of control information and data records; transformations and recoding of input data; and large problem capacity, since Statjob allocates all storage dynamically for every program run. The following main programs are included in the system: Colfreq1, single column frequency counts; Crostabl, cross-tabulation; Dstat2, descriptive statistics and correlation analysis; Factor1, factor analysis; Nway1, general analysis of variance; Oneway1, one-way analysis of variance; Regan2, multiple regression analysis; Strepreg1, stepwise multiple regression analysis; and Trans1, data input, transformation, and storage.

30. B5500 System-1967.

An executive routine approach including standard statistical analyses. Burroughs Corporation.

31. OSIRIS.

A collection of programs developed at the University of Michigan Survey Research Center.

32. SAS. Statistical Analysis System.

Eighteen well-documented routines for the IBM 360 and 370. SAS provides an integrated approach to statistical analysis and editing of data and employs a user-oriented language that includes simple statements which present, describe, analyze, transform and generate data.

Data Management Systems and Report Generators

The following is a brief description of six general data base management systems and ten widely used software packages for report generation and other closely related functions. A general discussion of the merits and applications of these packages is given below, and two sets of tables are presented. The first set outlines the characteristics of the various data base management systems with a report generator option: the second refers to packages with data management and report generation capabilities.

IBM's Information Management System (IMS) is one of the most flexible systems on the market. The primary function of IMS is to organize and structure data items efficiently on physical direct-access devices. It provides a means for physical-level access to the data and sets up an interface between the user's application program and the operating system's data management and communications management facilities. IMS's technique for data base management allows the user to employ utility programs to describe the structure of the system from two viewpoints: stored data structure as seen by the system and logical data structure as seen by an application. One of the many modules that can be purchased as an option to increase the versatility of IMS is "Generalized Information System," GIS Version 2 with eleven optional features, including a report generator.

A much less expensive package in the same category is SOCRATES by Cincom Systems. SOCRATES is the report writer option for the data management system TOTAL by the same vendor. The major feature of this product addresses the problem of extracting and formulating data from an integrated data base. The print phase incorporated in SOCRATES offers a wide range of options which will allow the user to construct either a highly complex report format or a simple listing. SOCRATES was fundamentally

developed along with three other programs to provide administrative and financial records for schools. It can be run on a variety of computer systems.

Of the three remaining packages -- ADABAS, SYSTEM 2000, and IDMS/CULPRIT, the latter two do not have to be used with their specified data base management system. ADABAS has a report writer option "ADAWRITER" which is soon to be available.

The software packages listed in the second set of tables were developed exclusively for report generation without requiring a specific data base management system. Some, like AUTOTAB, were primarily designed for business and financial planning and reporting. AUTOTAB is particularly useful for dealing with tables of numerical data, such as sales and investment analysis, depreciation schedules, etc. The table contents are defined by the user along with the relationships between different tables. AUTOTAB prints the table as a report and optionally saves it for modification or incorporation into another table. There are numerous advanced features built into the package -- for example, formulas for determining compound growth rate, return on investment, etc., and many other features designed for commercial applications.

RSVP (Report Service-Very Prompt) by Honeywell Information Systems is another package designed for management. The outstanding feature about it is the ease with which it can be used. Its operation is based on the multi-choice report request booklet, a clear simply written interrogation leading the user through a step-by-step specification of his report. Unlike some report generators, RSVP does not produce free-form or array reports. Its output is columnar; however, it does offer up to 10 columns of data -- as many as, or more than, other columnar report generators. As with other report generators, subroutines written in any language can be executed during the RSVP run. One unique feature the package offers is that it restricts access to specified fields; this feature is especially valuable in dealing with confidential files. RSVP offers all essential data manipulative capabilities including full Boolean and arithmetic operations. One shortcoming of RSVP is the lack of full-range file maintenance and data management capabilities, which is essential if the user deals with a great amount of data.

In contrast, DATA-MAN-360 file Management Systems, written by Data-Man, Ltd., is a self-contained general-purpose data management system with modules for file creation, file maintenance, data retrieval and report writing. The reports can have any number of lines, unrestricted calculations, conditional logic, and editing. It is especially helpful in updating, such as running an old master file against a transaction file to produce a new master. On the whole, DATA-MAN is a highly recommended and versatile package if it is to be used for report generation, and it is among one of the least expensive ones considering other equally versatile systems.

In the same category, but somewhat more sophisticated, is ASI-ST, which performs the full range of data management functions, including file and data definition, data retrieval, file creation and maintenance, data manipulation, and report generation. Capability is also provided to define, create, modify, and produce reports from other data bases using the inherent access methods present in the IBM System/360 or 370 host operating system. ASI-ST does not supplant the data base manager or conventional file access method itself (IMS, TOTAL, etc.), but rather is used in conjunction with it.

DATA ANALYZER by Program Products Incorporated is ranked as one of the most flexible and powerful retrieval and reporting systems. It is highly flexible, and this makes it suitable for a wide range of applications. It can also be interfaced with TOTAL and IMS. The reports to be generated are defined by using a very simple specification sheet, plus similarly straightforward Master File Definition Forms. Extensive default options allow quick report generation following generally accepted rules of presentation, such as automatic column headings, line spacing and line width. DATA ANALYZER has many unusual external functions for information presentation and data manipulation. These include bar graph and table presentation, table analysis, averages, standard deviations, data lookups, data retrieval, statistics, etc. Furthermore, the user can also add his own routines to this library of functions. This could be quite convenient if many specific calculations are to be done on the data.

Several data base management systems have already been mentioned which offer an optional report generator. SOCRATES is the one designed for TOTAL; it is highly flexible and has a wide range of options which will allow the

user to construct complex reports. SYSTEM 2000 by MRI Systems Corp. can be implemented on a variety of computer systems; it has powerful and flexible information update and retrieval capabilities. One of its main features is fast response and access either through its imbedded command language or through interfaces to languages such as Cobol and Fortran. A report writer feature is offered to satisfy needs for standard report production. This feature enables the user to define and generate as many as 100 formatted reports from a single scan of the data base. It is one of the most expensive systems.

CULPRIT is another package which can be interfaced not only with IDMS but also with IMS, TOTAL and RDMS data base systems. It is designed to replace the report- and file-producing part of a program. CULPRIT, like a sort, is a general-purpose utility which resides on disk as a cataloged program, and is tailored for specific purpose by control or parameter cards. The parameters describe the outputs to be produced and all of the necessary data manipulation to be performed.

The last three packages described are quite expensive and generally require an interface which is equally expensive. However, their use should be considered if they are already available.

The remaining packages fall into the least expensive category. MARGEN is a report generator and file maintenance package with an extremely simple report format description which makes it easy to learn and use. It can create and update a master file from a detail file as well as edit and copy files. It is capable of performing operations such as logical, relational, arithmetic, data conversion, etc. DYL-250 and DYL-260 are general-purpose systems with capabilities such as file creation and updating, field translation, formatting and unpacking of data fields, and report generation. DYL-260 generates more complex reports and is generally more versatile than DYL-250.

REPORT WRITER by Pioneer Data Systems, Inc. is a Cobol-based file examination and report creation program for files consisting of fixed-length fields. Of course, this could limit its use, and in addition it has no file maintenance capabilities; however, the report writing capability is adequate for most purposes and the heading provisions are good.

SELECTED DATA BASE MANAGEMENT SYSTEMS: GENERAL CHARACTERISTICS

<u>NAME OF PACKAGE AND VENDOR</u>	<u>REPORT GENERATOR</u>	<u>PRICE</u>	<u>GENERAL DESCRIPTION</u>
ADABAS (MRI Systems, Corp.)	ADAWRITER (to be available in early 1975; EASYTRIEVE (PANSOPHIC Systems)	\$120,000; Price is all inclusive; no separately priced options	ADABAS is a DBM system with a number of utility programs used under DOS or OS with BDAM for data generation and access.
IDMS (Cullinane Corp.) Boston	IDMS/CULPRIT	\$37,500; monthly license available	The design of IDMS includes a schema data description language (schema DDL), a sub-schema data description language (subschema DDL), a device/media control language (DMCL), and a data manipulation language (DML), as well as the data base management modules themselves (DBMS). IDMS also includes a data dictionary system, which operates from the user-established schema definition of data and a series of data administrator utility programs.
IMS (IBM Corp.) New York	GIS/VS, GIS-2	Monthly license only IMS-2: DB - \$616 DC - \$700 IMS/VS: DB - \$770, DC-935	IMS is a highly flexible data base management system with fairly simple fundamental functional concept. The user employs utility programs to describe the structure of the system from two viewpoints: stoned data structure as seen by the system, and logical data structure as seen by an application.
SYSTEM 2000		SEE THE TABLES FOR THE SELECTED REPORT GENERATOR PACKAGES	
TOTAL (Cincom Systems, Inc.) Cincinnati	SOCRATES	DOS: TOTAL 4 - \$76,500; TOTAL 7 - \$29,500. OS: TOTAL - 4 - \$28,000; TOTAL - 7 - \$34,500. Monthly license available	TOTAL has facilities for data base generation and accessing by any host language that supports a CALL statement.

SELECTED DATA BASE MANAGEMENT SYSTEMS: HARDWARE CHARACTERISTICS

<u>NAME OF PACKAGE AND VENDOR</u>	<u>COMPUTER SYSTEM CPU</u>	<u>MINIMUM CORE REQUIREMENTS</u>
ADABAS	IBM System/360 and 370 Siemens 4004 UNIVAC 9000 Series	160K bytes
IDMS	IBM (Refer to Report Tables for Report Generator) IBM S/360 and 370 UNIVAC Series 70	
IMS	IBM S/360 and 370 Models 40 and 145 and up	IMS-2-DB: 128K (MFT), 256K (MVT); DB/DC 512K(VS9): 768K(VS2); IMS/VS - DB: 90K Partition: DB/DC 350K Partition
SYSTEM 2000	SEE THE TABLES FOR THE SELECTED REPORT GENERATOR PACKAGES	
TOTAL	IBM S/360 and 370 Honeywell 200 and 2000 Models 7 and 2 UNIVAC Series 70 and 9400/9700 Computers CDC 6000 Series	3K to 30K bytes minimum

SELECTED DATA BASE MANAGEMENT SYSTEMS: SOFTWARE CHARACTERISTICS

<u>NAME OF PACKAGE AND VENDOR</u>	<u>COMPUTER SYSTEM CPU</u>	<u>OPERATING SYSTEM</u>	<u>APPLICATION PROGRAMMING LANGUAGES SUPPORTED</u>	<u>DATA BASE LANGUAGE FACILITY</u>
ADABAS	IBM Systems/360 & 370 Siemen 4004 UNIVAC 9000 Series	DOS, OS, OS/VS PBS DOS	COBOL, PL/1 FORTRAN ASSEMBLER.	ADABAS COMMAND LANGUAGE
IDMS	IBM S/360 & 370 UNIVAC Series 70	DO DOS, DOS/VS OS, VS1, VS2 VMOS, TDOS, DOS	DML Processor supports only ANS COBOL: IDMS can also be accessed from FORTRAN, PL/1 and Assembler	Hierarchical or network structure
IMS	IBM S/360 & 370 Models 40 & 145 and up	OS/MFT VS1, VS2	COBOL, PL/1 Assembler	DATA LANGUAGE /1
SYSTEM 2000	IBM	SEE THE TABLES FOR THE SELECTED REPORT GENERATOR PACKAGES		
TOTAL	IBM S/360 & 370 Honeywell 200 2000 Mod 1, Mod 2 UNIVAC Series 70 and 9400/9700 Computers CDC 6000 Series	DOS, DOS/VS, OS, VS1, VS2 OS/2000 TDOS, DOS SCOPE, KRONOS	COBOL, RPG11, FORTRAN	DATA BASE DEFINITION

(CONTINUED)

<u>NAME OF PACKAGE AND VENDOR</u>	<u>COST</u>	<u>GENERAL DESCRIPTION</u>
DYL-250 DYL-260 (Dylakor Computer Systems) Van Nuys, CA	Purchase \$2,950 or \$31/monthly	They are general purpose systems which create files, generate test data, print simple reports, compress and restore records, and update existing files 260 is principally a report generator with an excellent error analysis facility.
MARGEN (Randolph Computer Co.)	\$7,500 Purchase	Margen is a report generator and file maintenance system with facilities for easily handling one-time immediate requests as well as standard-scheduled reports.
REPORT WRITER (Pioneer Data System)	Purchase Price \$2,000	Report Writer is a robot-based file examination and report creation program.
RSVP (Honeywell Info. Systems)	\$141 - \$275/monthly for single report generator \$176 - \$350 for multiple reports.	RSVP is a report generator written specifically for management and other personnel with no prog. experience.
SOCRATES	\$675 - \$750/monthly \$20,750 - \$22,500 outright purchase.	A generalized extract and reporting system from an integrated data base: principally designed for TOTAL, highly flexible and a wide range of options which will allow the user to construct complex reports.
SYSTEM 2000	\$650 - \$520/m For report writer package	System 2000 is a generalized data base management system that features fast response and access either through its imbedded command language or through interfaces to languages such as COBOL or FORTRAN. The report writer feature enables the user to define and generates as many as 100 formatted reports from a single scan of the data base indices.

SELECTED REPORT GENERATOR PACKAGES: GENERAL CHARACTERISTICS

<u>NAME OF PACKAGE AND VENDOR</u>	<u>COST</u>	<u>GENERAL DESCRIPTION</u>
ASI-ST (Application Software, Inc.)	\$10,000 to \$33,000 depending on which version considered and with what options	Full scale batch/conversational data management system, features a high-level user language that simplifies processing of files/data base. It can work with conversational format files (eg. BSAM, ISAM) or supplements IMS or Total can provide preparation of any number of reports following a single run through data base or faster files.
AUTOTAB (Cadex Corp.) Phoenix, AZ	\$375/m \$9000 for Perpetual License (Out right purchase)	It is a report generator designed for business and financial planning and reporting. It is especially suited for applications involving numerical tables.
CULPRIT (Cullinane Corp.) Boston, MA	\$15,000 for a two year license plus a 15 percent renewal fee each year. Special interfaces (TOTAL, RDMS, etc.) cost an additional \$15,000 each	It replaces the report and file producing part of a program. It is intended however, only to supplement programming languages, not replace them. It creates and converts files and produces l-time or production reports.
DATA ANALYZER (Program Products, Inc.)	\$640/m	Flexible info retrieval and reporting system quick report generator with generally accepted rules of presentation such as automatic column headings line spacing, and lne width.
DATA-MAN (DATA-MAN, Ltd.) Canada	\$450/m + \$1,000 installation purchase \$11,000	Self-contained data management system with strong file creation and data manipulation capabilities. It also provides modules for data retrieval and R.W.

SELECTED REPORT GENERATOR PACKAGES: HARDWARE CHARACTERISTICS

<u>NAME OF PACKAGE AND VENDOR</u>	<u>COMPUTER SYSTEM</u>	<u>CORE NEEDED</u>	<u>PERIPHERAL</u>
AUTOTAB	IBM/360 IBM/370 Honeywell/600 Honeywell/6000 GE MARKII/TSS	65K for Table of 150 rows by 73K for 200 by 13 Table 270K for 250 by 100 Table	Usual peripheral storage devices such as tape or disk, only to save Table data
ASI-ST	IBM/360 IBM/370	44-60K for DOS, DOS/VS and 65-85K for others	
CULPRIT	IBM 360/30 IBM 370/135 UNIVAC Spectra 70	52K/DOS 100K/OS 200K/IMS, Culprit	
DATA-MAN	IBM 360/25 UP IBM/370	44K/OS(MFT) 52K/OS(MVT) 34K/DOS	1 Disk Unit 1 Console Typewriter 1 Card Reader 1 High Speed Printer
DATA ANALYZER	IBM/360 IBM 370	40K/DOS 85K/OS	Card Reader/Punch Printer. One or two disk drives or one disk drive and two tape drives
DYL-250	IBM/360	32K-65K	Card reader, TAPE DASD INPUT, PRINTER and DASD for OUTPUT.
DYL-260	IBM/370	40K	Card reader, TAPE DASD INPUT, PRINTER and DASD for OUTPUT.
RAMIS	IBM/360 IBM/370	Minimum 128K plus 6K for options 5K for buffers	

(CONTINUED)

<u>NAME OF PACKAGE AND VENDOR</u>	<u>COMPUTER SYSTEM</u>	<u>OPERATING SYSTEM</u>	<u>SUPPORTING LANGUAGES</u>
RSVP	IBM 360/30 UP	OS, DOS or comparable Honeywell Systems	Special language COBOL orientated
SOCRATES	IBM 360/30 UP	DOS, OS	Special language
SYSTEM 2000	IBM/360 IBM/370 UNIVAC/1108,06,10 CDC 6000 CYBER 70	OS, OS/VS EXEC 8 SCORE, KRONOS SCORE, KRONOS	Special commends with interface with COBOL and FORTRAN

SELECTED REPORT GENERATOR PACKAGES: SOFTWARE CHARACTERISTICS

<u>NAME OF PACKAGE AND VENDOR</u>	<u>COMPUTER SYSTEM</u>	<u>OPERATING SYSTEM</u>	<u>SUPPORTING LANGUAGES</u>
AUTOTAB	IBM/360 IBM/370 Honeywell/600 Honeywell/6000 GE MARKII/TSS	OS or TOS CRSE GECOS	Special language with facilities to exit to FORTRAN or COBOL
ASI-ST	IBM/360 IBM/370	DOS, DOS/VS OS/MFT OS/MVT OS/VS1 OS/VS2	Special language
CULPRIT	IBM 360/30 IBM 370/135 UNIVAC SPECTRA 70	DOS, OS (MFT, MVT, VS) TDOS, DOS	Special language can exit to users - written program
DATA ANALYZER	IBM/360 IBM/370	DOS DOS/VS OS, OS/VS	FORTRAN
DATA-MAN	IBM 360/25 UP IBM/370	OS or DOS	Special language
DYL-250	IBM/360 IBM/370	OS, DOS VS	Special language
DYL-260	IBM/360 IBM/370	OS, DOS VS	Special language
MARGEN	IBM/360	OS DOS	Special language English language orientated.
REPORT WRITER	Any Computer with COBOL Compiler		Special language a series of descriptor cards are used to describe the file to be searched or report to be produced.

(CONTINUED)

<u>NAME OF PACKAGE AND VENDOR</u>	<u>COMPUTER SYSTEM</u>	<u>CORE NEEDED</u>	<u>PERIPHERAL</u>
RSVP	IBM 360/30 UP	22K	1 Disk Drive 1 Disk Reader 1 Printer
SYSTEM 2000	IBM/360 IBM/370 UNIVAC 1108,06, 10 CDC 6000 CYBER 70	256K 32K 18K	
REPORT WRITER	Any computer with a COBOL Compiler	52K	

5.5 REGIONAL/STATE RESPONSIBILITIES

In addition to determining the specific report capabilities desired for the Regional Data Network (see section 5.2), Phase II of this contract will have to devote considerable attention to the task of assigning responsibility for the collection and processing of information within the system. Currently no data processing takes place at the regional level. It seems certain, moreover, that the responsibility for data collection and primary processing will remain with the States, with the exception of census demographics. With respect to clinic data, most states are collecting some clinic information and this may prove adequate without further efforts on the part of the Region. It is also possible that the data collected nationally by the annual survey of NCHS might become the input source for the region. Such data are available for the year 1974 and are currently being collected for 1975. Updating such data, however, would be a matter of some concern in reference to its use in the RDN.

The processing of patient-level data is, of course, the principal occupation of the respective state family planning information systems. In considering the role of this level of information in the RDN, there is little doubt that an appropriate subset of these data (suitably massaged to protect confidentiality) can be made available to the region. Indeed, several statewide family planning directors have expressed some interest in making available to the Region an edited patient master file which would then serve as the major data input to the RDN. There are many advantages to this position, but its implementation is of course dependent upon the existence of an appropriate regional data processing capability.

An alternative to processing reports for the RDN at the regional level would be to create in each of the states the capacity for producing the reports at the state level of aggregation and then having them compiled manually into overall regional documents. This approach is certainly possible, especially if technical assistance for programming can be supplied to those states needing assistance; it is also conceivable that one of the states might be asked to serve as the processor for those reports that summarize the data regionwide.

In any event, it is not possible at this stage of the project to do more than merely touch upon the subject of assigning the data processing responsibility for the RDN. Certainly, the task has many more aspects than those mentioned above, and the main reason for discussing them at this point is not to state the problem in its entirety but to emphasize the need to resolve such issues early. Many features of the RDN design will be dependent upon decisions made concerning the assignment of data processing responsibilities within the system. If the possible courses of action in this matter can be narrowed, the job of system design will be greatly simplified and the chances for installing an operational network in minimal time will be considerably enhanced.

6.0 A DECISION AGENDA

In order to ensure an orderly transition into the next project phase, administrative decisions will have to be made concerning each of the questions enumerated below. Some of these questions are posed merely to elicit confirmation of decisions already made; others are presented for the first time.

(1) Should the Regional Data Network be designed as an ultimate replacement for current state systems, or is its purpose rather to tie the outputs of those existing systems into an effective regional management reporting system? The first option would require the design and use of standard forms and procedures in all states within the Region; thus although it offers conceptual simplicity and would give the highest possible degree of uniformity and data reliability, it is beyond the scope of the present project (which is based on a "network" rather than a "single system" concept). Furthermore, the choice of the first option would undoubtedly be traumatic for the participating states, because an extensive amount of readjustment and retraining is required in order to implement any new system.

(2) Is Region IV prepared to maintain some kind of data base in order to achieve the objectives of the Regional Data Network? Without such a data base, the reporting capability of the RDN would be considerably diminished. Therefore, the remaining questions assume a determination to develop such a base, and focus instead on issues which will decide the nature and size of that base.

(3) Will patient data be maintained at the individual record level in a regional-level master file, or will reports be generated solely on the basis of periodic (e.g., monthly) activity analyses or "transactions"? The former option holds the promise of answering a somewhat larger range of questions than would be answerable from the latter; however, the cost to the Region would be considerably higher if the former option were selected, and this added cost would not be worth paying if estimated answers were sufficient for the purposes of management and evaluation. (As a rough measure, the cost of maintaining a patient-level master file would be at very least equal to the cube of the ratio of the number of characters in

the cumulative patient record file to the number of characters in a monthly periodic transaction file.)

(4) Which data elements should be included in the patient-information component of the data base? Material useful for making this decision is presented in sections 2.0-2.4 and section 5.3 of this working document. Consideration might also be given to restricting the system (at least initially) to use of the NCHS subset of patient data, which would rule out any possibility of duplication of effort; then, at some future time the data set could, if desired, be expanded.

(5) Which data elements should be included in the demographic component of the data base? Will the data elements presented in section 5.3 serve the purpose of management and evaluation? Is the county level of aggregation appropriate for these same purposes?

(6) Which data elements should be included in the fiscal and state plan components of the data base? Is the state level the appropriate level at which to aggregate this data for management and evaluation purposes?

(7) What data elements should be included in the facilities/staffing component of the data base? Is the service site level the appropriate level of aggregation at which to review this information? Is the NCHS inventory suitable for constructing this file, or does a different survey instrument have to be developed to elicit the kind of service site data needed for present purposes?

(8) What report types (see section 5.2) should be available through the RDN? What levels of aggregation are most appropriate for evaluation needs? What preparation cycles? What are the anticipated needs for special reports? How fast a turnaround time will be necessary?

(9) What user accessibility requirements will be associated with the RDN? How will user requests be made? Will control of user requests be at the Regional level? What level of user will have direct access to the system? What kind of training will be necessary?

The questions posed above by no means exhaust the list of system design alternatives which will need to be resolved as the work of the project pro-

ceeds. However, these questions provide a basic starting point, and the answers which are given to them will provide a basic direction to future work on the design of a Regional Data Network for Region IV.

7.0 BIBLIOGRAPHY

1. Adil, Enver. "The Use of Statistical Guides and Measures of Effectiveness in Determining Government Policy for Influencing Fertility -- "Pakistan." In *Proceedings of the World Population Conference*, Belgrade, 30 August - 10 September 1965, Vol. 2, pp. 63-67. New York, U.N., 1967. 4 vols.
2. Agarwala, S.N. "Evaluating the Effectiveness of a Family Planning Program. In *Research in Family Planning*, ed. by C.V. Kiser, Princeton, N.J., Princeton Univ. Press, 1965.
3. Austin, J.E. "The Management Bottleneck in Family Planning Programs." *Studies in Family Planning* 4:343-350 (December, 1973).
4. Bargar, Martha. *International Demographic Data Directory. A Computerized Information Retrieval System for Demographic and Family Planning Data*, 1972. 60 pp. ED 076 396
5. Bauman, K.E., and J.R. Udry. "Evaluation of the Five-Year Family Planning Plan." *Health Services Reports* 88:814-817 (November, 1973).
6. Beasley, J.D. "Evaluation of National Health Programs. IV Louisiana Family Planning. *American Journal of Public Health* 61:1812-1825 (September, 1971).
7. Beasley, J.D., and J.P. Wells. "Louisiana: Developing and Managing A Statewide Family Planning Program." *Family Planning Perspectives* 3:68-79 (October, 1971).
8. Berelson, Bernard, ed. *World Population: Status Report 1974: A Guide for the Concerned Citizen*.
9. Bogue, Donald J. *A Model Interview for Fertility Research and Family Planning Evaluation*. Chicago, Community & Family Study Center, University of Chicago, 1970. 176 pp. Manual No. 3.
10. Bogue, Donald J. *Cost-Effectiveness Analysis of Family Planning Programs*. Chicago, Community and Family Planning Study Center, University of Chicago, 1973. 111 pp. Manual No. 11

11. Bogue, Donald, J., ed. *Family Planning Improvement Through Evaluation: A Manual of Basic Principles*. Chicago, Community and Family Study Center, University of Chicago, 1970. 82 pp. Manual No. 1
12. Bogue, Donald J., and Elizabeth J. Bogue. *Techniques of Pregnancy History Analysis*. Chicago, Community and Family Study Center, University of Chicago, 1971. 156 pp. Manual No. 4
13. Bogue, Donald J., and James Nelson. *The Fertility Components and Contraceptive History Techniques for Measuring Contraceptive Use-Effectiveness*. Chicago, Community and Family Study Center, University of Chicago, 1971. 75 pp. Manual No. 5
14. Bogue, Donald J., Scott Edmonds, and Elizabeth J. Bogue. *An Empirical Model for Demographic Evaluation of the Impact of Contraceptives and Marital Status on Birth Rates, with Computerized Applications to the Setting of Targets and Quotes for Family Planning Programs*. Chicago, Community and Family Study Center, University of Chicago, 1973. 155 pp. Manual No. 6
15. Chandrasekaran, C., and Mays W. Freymann. "Evaluating Community Family Planning Programs." In *Public Health and Population Change*, ed. by M.C. Sheps and J.C. Ridley. Pittsburgh, Pa., University of Pittsburgh Press, 1965.
16. Chokel, Patricia K., and Janet T. Dingle. "Using Standard Data for Program Evaluation in Cleveland." *Family Planning Perspectives* 5:216-222, Fall, 1973.
17. Correa, H., V.W. Parrish, Jr., and J.D. Beasley. "A Three-Year Longitudinal Evaluation of the Costs of a Family Planning Program." *American Journal of Public Health* 62:1647-1657 (December, 1972)
18. Corsa, L. Jr., et. al., "Evaluating Publicly Supported Family Planning Services in Metropolitan Detroit." *Family Planning Perspectives* 3:25-28 (Apr., 1971)
19. Denistan, A.L., et.al. "Evaluation of Program Effectiveness." *Public Health Reports* 83:323-335 (April, 1968)

20. Elliott, Robin, et.al. "U.S. Population Growth and Family Planning: A Review of the Literature." *Family Planning Perspectives* 2:II-XVI (October, 1970). Special Supplement.
21. Freedman, Ronald. *Community - Level Data in Fertility Surveys*. World Fertility Survey Occasional Papers, no. 8. Voorburg, The Netherlands, International Statistical Institute, May, 1974. 38 pp.
22. Freedman, Ronald. *Example of Community Level Questionnaires*. World Fertility Survey Occasional Papers, no. 9. Voorburg, The Netherlands: International Statistical Institute, May, 1974. 72 pp.
23. Giebink, G.R., et. al., "The Denver Areawide Health Data Management System." *Medical Care* 11: Suppl. 170-177 (March-April, 1973).
24. Goldstein, H. "Observations on Evaluation of Family Planning Programs." *Health Services Reports* 88:213-217 (March, 1973).
25. Haas, A. "Design Considerations for a State Health Department Information System." *American Journal of Public Health* 64:481-495 (May, 1974).
26. Haupt, Barbara. *The National Reporting System for Family Planning Services*. *Health Services Reports* 88:637-639 (August-September, 1973)
27. International Union for the Scientific Study of Population. Committee on Comparative Studies of Fertility and Fertility Planning. *Variables and Questionnaire for Comparative Fertility Surveys*. New York, United Nations, 1970. 104 pp. Population Ser. No. 45
28. Johnson, W. Bert, Frank Wilder, and Donald J. Bogue. *Information, Education and Family Planning; A Guide for National Action*. Chicago, Community and Family Study Center, University of Chicago, 1973. 207 pp.
29. Kanagaratnam, K. "Administrative Aspects of Family Planning Programmes in Asia: Report of a Workshop." *Studies in Family Planning*. 14:1- (1966)
30. Keeny, S.M. "Studies in Family Planning. To Sum Up" *Studies in Family Planning* 4:129-131 (May, 1973).

31. Lapham, R.J., and W.P. Mauldin. "National Family Planning Programs: Review and Evaluation." *Studies in Family Planning* 3:29-52 (March, 1972).
32. MacCorquodale, D.W., et. al., A "Mathematical Model for Determining Effectiveness of Family Planning Clinics." *Studies in Family Planning* 5:232-238 (July, 1974).
33. Mackenzie, V.P. "Evaluating Family Planning Programs in a Canadian Context." *Canadian Journal of Public Health* 63:228-236 (May-June, 1972)
34. McLaughlin, Curtis P., and Edward S. Trainer. *Qualitative Evaluation of Family Planning Proposals and Programs: A Systems Approach*. Chapel Hill, N.C., Carolina Population Center, 1971. 70 pp.
35. Moore, Maurice J. *MINI-REGRESSION: A Small Computer Program for Performing Multiple Regression Analysis*. Chicago, Community and Family Study Center, University of Chicago, 1974. n.p. Manual No. 14.
36. Moore, S.H., et. al. "Using A Statewide Data System for Family Planning." *Family Planning Perspectives* 5:50-54 (Winter, 1973)
37. Muller, C., et. al. "Data Gaps in Planning for Comprehensive Fertility-Related Health Services." *American Journal of Public Health* 64:687-695 (July, 1974).
38. O'Connor, R.W., and G.L. Urban. "Using A Model As A Practical Management Tool for Family Planning Programs." *American Journal of Public Health* 62:1493-1500 (November, 1972).
39. Pedessen, Harold A., Henry G. Elkins, and Jeanne C. Siquefield. *A Simplified Client Record System for Family Planning Programs*. Chicago, Community and Family Planning Study Center, University of Chicago, 1972. 85 pp. Manual No. 10
40. Perkin, Gordon W. "Measuring Clinic Performance." *Family Planning Perspectives* 1:36-38 (Spring, 1969).

41. *Population Planning. Sector Working Paper.* Washington, D.C. World Bank, 1972. 83 pp.
42. Rielly, R.A. "Family Planning Service Program: An Operational Analysis." Washington University, St. Louis, Mo. *Abstracts of Hospital Management Studies* 1973 9/4 (09011 - 159p.)
43. Reynolds, J. "Evaluation of Family Planning Program Performance: Critical Review." *Demography* 9:69-86 (February, 1972)
44. Reinke, W.A. "Methodologic Issues in Population Planning: Studies of Alternative Patterns of Administrative Organization." *International Journal of Health Services* 3:611-616 (Fall, 1973).
45. Reynolds, J. "A Framework for the Design of a Family Planning Program Evaluation System." Proceedings of the Ford Foundation Evaluation Conference, Italy: The Population Council, April, 1970.
46. Reynolds, Jack. *Manuals for Evaluation of Family Planning and Population Programs Number 1-4.* New York, Division for Program Development and Evaluation, International Institute for the Study of Human Reproduction, Columbia University, 1970. 135 pp.
47. Roberto, Eduardo, and Susan L. Gehrz. "Evaluating Family Planning Program Effectiveness and Efficiency." *Studies in Family Planning* 6:37-44 (February, 1975).
48. Ross, John A. "On Measuring the Effectiveness of Family Planning Programs." In *Mass Communication and Motivation for Birth Control*, ed. by D.J. Bogue. Chicago, Community and Family Study Center, University of Chicago, 1967.
49. Seidman, D.R. *Family Planning Service Programs. An Operational Analysis.* U.S. Department of Health Education Welfare, May, 1970. 109 pp.
50. Seltzer, William. "Measurement of Accomplishment: The Evaluation of Family Planning Efforts." *Studies in Family Planning* 1:9-16 (May, 1970).

51. Siegel, E., et. al., *A Longitudinal Assessment of a Community Family Planning Program*. Paper presented at Annual meeting of the American Public Health Association, Miami Beach, Fla. Oct. 22-27, 1967.
52. Sinquefield, Jeanne C. *Single and Multiple Decrement Life Table Procedures for the Analysis of the Use-Effectiveness of Contraception*. Chicago, Community and Family Study Center, University of Chicago, 1973. 131 pp. Manual No. 8
53. Smith, Jack C., and James B. Goldsby. "A Family Planning Services Data System." *Family Planning Perspectives* 2:41-46 (June, 1970).
54. Snyder, G.R., et. al. "A Statewide Family Planning Program: Evaluation by Continuous Computer Monitoring." *American Journal of Public Health* 59:1317-1321 (August, 1969).
55. *Systems Specification for Early Demonstration Project*. St. Paul Family Planning Services Management Information System. PB 208-761
56. Tamblin, P.B., R.H. Richardson, and E.S. Ryle. "Planning for Family Planning." *American Journal of Public Health* 63:142-143 (February, 1973)
57. Tayback, M. *Evaluation of Family Planning Programs*. Papers presented at Institute in Administration of New Programs in Material and Child Health Berkeley, University of California, Jan. 19, 1966.
58. Thompson, H.E., and B. Berris. "A Government-Supported Family Planning Program. Its Development and Evaluation." *Journal of the American Medical Association* 230:709-712 (November 4, 1974).
59. Tyler, C.W., Jr. "Assessment of a Family Planning Program: Contraceptive Services and Fertility in Atlanta, Georgia." *Family Planning Perspectives* 2:25-29 (March, 1970).
60. Tyler, C.W., Jr. "Family Planning Program Evaluation By Use of A Sample Survey." *American Journal of Public Health* 60:1264-1270 (July, 1970).

61. United Nations. Department of Economics and Social Affairs. *Measures, Policies, and Programmes Affecting Fertility, with Particular References to National Family Planning Programmes*. New York, United Nations, 1972. 162 pp. Population Studies No. 51.
62. Urban, G.L. "Model for Managing A Family Planning System." *Operations Research* 22:205-233 (March-April, 1974).
63. Ware, G.O. "A General Statistical Model for Characterizing the Growth Patterns and Projecting the Level of Performance of Family Planning Clinics." *Socio-Economic Planning Sciences* 7:145-150(1973).
64. Wishik, S.M. "The Use of Client Characteristics As Predictors of Utilization of Family Planning Service." *American Journal of Public Health* 60:1394-1397 (August, 1970)
65. Wolfers, D. "The Estimation of Potential Fertility for Family Planning Evaluation: A Critical Discussion." *Proceedings of the Royal Society of Medicine* 63:1107-1110 (November, 1970).
66. Wolfers, D. "Evaluation Criteria for a National Family Planning Program." *American Journals of Public Health* 58:1447-1451 (August, 1968).
67. Wright, N.H. "Vital Statistics and Census Tract Data Used to Evaluate Family Planning." *Public Health Reports* 85:383-389 (1970).

SOURCES

1. *Bibliography of Family Planning and Population.*
Simon Population Trust
141 Newmarket Road
Cambridge CB5 8HA England
2. *Bibliography of Reproduction.*
Reproduction Research Information Service, Ltd.
141 Newmarket Road
Cambridge, England
3. *Current Literature in Family Planning: A Monthly Classified Review of the Literature in the Field of Family Planning.* (Incl. in ERIC)
Library, Planned Parenthood - World Population
810 Seventh Ave.
New York, N.Y. 10019
4. *Current Publications in Population/Family Planning.*
The Population Council
245 Park Avenue
New York 10017
5. Driver, Edwin D. *World Population Policy: An Annotated Bibliography.*
Lexington, Mass., Lexington Books, D.C. Heath and Co., 1972.
1280 pp.
6. Fogle, Catherine, Karen Gleiter, and Marilyn McIntyre. *International Directory of Population Information and Library Resources.* Chapel Hill, N.C., Carolina Population Center, University of North Carolina, 1972. 324 pp. Supplement to the 1st ed., 1972. 84 pp.
7. Goode, Stephen. *Population and the Population Explosion; A Bibliography.*
Tray, New York. Whitson Publishing Company, 1973. 361 pp.
8. *Guide to Information Sources in Family Planning; A Selected Bibliography.*
New York, Planned Parenthood - World Population.

9. Kasdon, David L. *International Family Planning, 1966-1968; A Bibliography*. Chevy Chase, Md., National Institute of Mental Health, 1969. 62 pp. Pub. No. 1917, U.S. Public Health Service
10. *Population Council Periodical Index*
Population Council
245 Park Avenue
New York 10017
11. *Population Index*. Office of Population Research, Princeton University
12. Watts, Mary Elizabeth. *Selected Reference for Social Workers on Family Planning; An Annotated List*. U.S. Maternal and Child Health Services, 1971. 38 pp.

SYSTEM USER'S DOCUMENTATION FOR A FAMILY PLANNING REGIONAL DATA NETWORK

Final Project Report

DHEW Contract 294-75-002

U. S. Department of Health, Education and Welfare

Public Health Service (Region IV)

DHEW Project Officers: Jean P. Cobb and James X. Lococo

Principal Investigator: A. P. Jensen

Senior Associates: James F. Doyle and John Gehl

Programmers: Richard Carling, Danny Crider, Richard Greene,
and Fereydoun Taslimi

July 1976

SCHOOL OF INFORMATION AND COMPUTER SCIENCE

Georgia Institute of Technology



SYSTEM USER DOCUMENTATION FOR A FAMILY PLANNING REGIONAL DATA NETWORK

Acknowledgments

INTRODUCTION

GENERAL DESCRIPTION OF THE REGIONAL DATA NETWORK

GENERAL SYSTEM FLOWCHARTS

* * * * *

DATA CONVERSION PROGRAM

* * * * *

TALLY PROGRAM

* * * * *

REPORT GENERATOR

* * * * *

PLOT PROGRAM

* * * * *

MAPPING PROGRAM

Acknowledgments

Our special thanks are extended to Ms. Jean P. Cobb, Evaluation Specialist, Public Health Service, for the sustained, energetic and detailed guidance which she contributed as project officer during the course of this work. Her great interest in the project and in the family planning program, as well as the painstaking attention she gave to the problem of identifying the data requirements of the regional evaluation effort, served both as the starting point and as the basis for the programming specifications set forth in this document. We would also like to extend our appreciation for their valuable support to Mr. James X. Lococo, co-project officer and Assistant Regional Health Administration DHEW-IV, and to Ms. Chrystal Darter of the Regional IV family planning program. Finally, and once again, our gratitude is extended to the many family planning statewide coordinators, data coordinators, systems analysts and others throughout Region IV who gave generously of their time in order to help us learn about the information needs of the family planning program in this region.

INTRODUCTION

The purpose of this document is to present final design specifications for a Regional Data Network for the family planning program in Region IV, U.S. Department of Health, Education and Welfare. The Regional Data Network will accept, as input, data from existing patient record systems, demographic profiles, fiscal and budgeting information, and provider agency characteristics; the output of the network is an integrated reporting system which can provide Regional administrators with the management tools that will enhance the family planning program's ability to effectively allocate and manage its resources.

The following constraints reflect the context in which the Regional Data Network specifications have been designed.

1. Each state's family planning patient system will continue to operate as an independent data processing service designed to meet state objectives.
2. The Regional Data Network will not duplicate existing information services at either the state or the national level. This applies particularly to the collection of information.
3. Insofar as possible, the Regional Data Network will operate on existing data bases, thereby keeping to an absolute minimum the generation of new data.
4. To the extent that the Regional Data Network requires the generation of new information, this need of the Region will not result in the imposition of additional data collection activities on the existing state systems. Instead, new information needs imposed by the RDN will be met through regional resources and provided as a service to the states rather than the reverse.
5. Patient confidentiality will be totally and at all times safeguarded in all Regional uses of patient-level data.

The foundation blocks for the work presented here were described in the three project reports Design Considerations for a Regional Data Network, Technical Objectives for the Proposed Linkage of Eight Family Planning Data

Systems, and Basic Network Design and Outline of Input-Output Procedures, previously submitted to the sponsoring agency. The purpose of this final document is to provide a record of the detailed program flowcharts and code which specify a system design suitable for the desired regional network. Detailed documentation is therefore set forth for each of the five major subsystems: the data conversion program; the report generator; the tally program; the plot program; and the mapping program. That documentation is preceded by a general description of the network as it would ultimately function if completely implemented. The material in this report should thus provide a well-developed foundation and User's Manual for the creation and use of a Regional Data Network for Family Planning when funds become available for that purpose.

GENERAL DESCRIPTION OF THE REGIONAL DATA NETWORK

The Regional Data Network has been designed so as to place almost no additional burden on the states. Their contribution would consist essentially of monthly tapes generated as a byproduct of the current processing activities and a small amount of additional information pertaining to their state plan. Other input to the system will be derived from NCHS and Census Bureau data. The end result will be an integrated data base comprised of Region IV patient, demographic, fiscal, facilities, and state plan data -- a data base upon which appropriate transformations can be made to yield management- and evaluation-oriented graphs, maps, charts, and statistical tables.

A more detailed view of the RDN is presented in the system flowcharts. This flowchart is divided into six operational sections and twenty-five blocks. The first section, which can be thought of as a conversion section, is where census data are transformed into a card file; updated information related to target population is read off appropriate documents and punched into a card file (as often as appropriate); and all information referring to state family planning fiscal operations and clinic operations is punched into a card file. Thus, at the end of this section there are card files, two of which are ready for use by the master control program (the census data file and the census update file) and the third of which is ready for the master file update program (state fiscal and facilities data).

The second section of the flowchart takes the state fiscal and facilities card file and feeds it into the master update program along with a tape file containing detailed information on patients, clinics, and state fiscal operations (produced by the master control program on the previous run, or non-existent if this is the first run) and the eight patient data tape files from the eight states. These three files are then merged in the master update program to produce a new updated file; this "new master" tape file is then ready for use as input by the master control program.

The third section is the master control program itself. Written in standard COBOL, this program takes as input the census data card file, the census update card file, and the master tape file. With these three files it does the following:

1. Merge the census data file and the census update file to produce a disk data file that contains data to be used by the density target population map program.
2. Produces a disk data file that contains data for the plot program.
3. Produces a disk data file containing data for the statistical analysis program.
4. Produces a lengthy, a highly detailed summary of all information on patient data, clinic data, state fiscal data, and demographical data.
5. Produces an "aggregated" master tape file. This tape file will be used by a special option of the master control program to produce trend analyses.

Although a new detailed master tape file appears to be produced, in reality it is the same tape file that was produced by the master file update program. It is saved and used in the next production run by the master file update program to help produce a new detailed master tape file.

The fourth section is where the density target population map program takes the map data disk file (produced by the master control program) and produces density maps of each state (by county) and of Region IV (by state).

The fifth section of the system flowchart is where the plot data disk file (produced by the master control program) is used by the plot program to produce bar graphs (state comparison over period), three-dimensional graphs, and pie graphs. It should be noted that an off-line device (Calcomp plotter) is used in the actual production of graphs. The program referenced here only creates instructions for the plotter.

The sixth and last section is where the statistical analysis program uses the statistical data disk file to perform a detailed statistical analysis report.

Thus the entire production run yields the following output:

1. Density target population maps by county and state.
2. A detailed report summary of all region data.
3. A statistical analysis report.

4. Bar graphs, pie graphs, and three-dimensional graphs.
5. Detailed master tape file (to be updated in next production run).
6. Aggregated master tape file (to be used later for trend analysis).
7. Census data card file.

The major sections of the master control program are depicted in the six pages of flowcharts which conclude this chapter of the report. These subprograms may be briefly described as follows.

The Master-File-Setup Section

In this section, the state planning, state fiscal, state facilities card data files and the old detailed master and the new patient tape data files are input into a merge and edit routine. This routine will perform an extensive series of error checks to determine the validity of all data and thereby optimize processing time. After all checks are completed this section of the program will merge all data into a well-formatted new detailed master tape file. This tape will be used extensively by all other sections of the program and will be updated by the master-file-setup section during the next processing run.

The Map-Production Section

This section first takes the Census (Old) card data file and the Census (Update) card data file and merges them into a Census Data disk file. The newly created Detailed Master tape file (created in section I of this program) is then rewound and any data related to the production of maps is read out of it. Next this and the Census Data disk file are processed to produce yet another disk file--the Map Data file. The mapping routine itself is then started and density target population maps are produced on the line printer. Since this routine (the mapping routine) is written in COBOL it will be incorporated directly into the master control program as opposed to the plot and statistical analysis routines which shall be left as distinct programs due to their different language types.

The Plot-Production Section

Here the Detailed Master tape file is scanned for all plot-related data. This data is then inputted into a routine which produces a Plot Data disk file. The actual plot program is then initiated and independently synchronously processed.

The Statistical-Analysis Section

This section is processed exactly like the previous Plot-Production section with the only differences being that the Detailed Master tape file is scanned for statistical-related rather than plot-related data and that the statistical analysis program is initiated instead of the plot program. It should be noted that at this point the computer is working on three tasks: the Master Control Program, the Plot Program, and the Statistical Analysis Program. All tasks are at this point completely independent of one another. This method of processing is much faster than if these tasks had to be performed serially.

The Report-Summary Section

Here is where all data from the Detailed Master tape file is summarized and written in report form.

The Aggregated-Master-File-Production Section

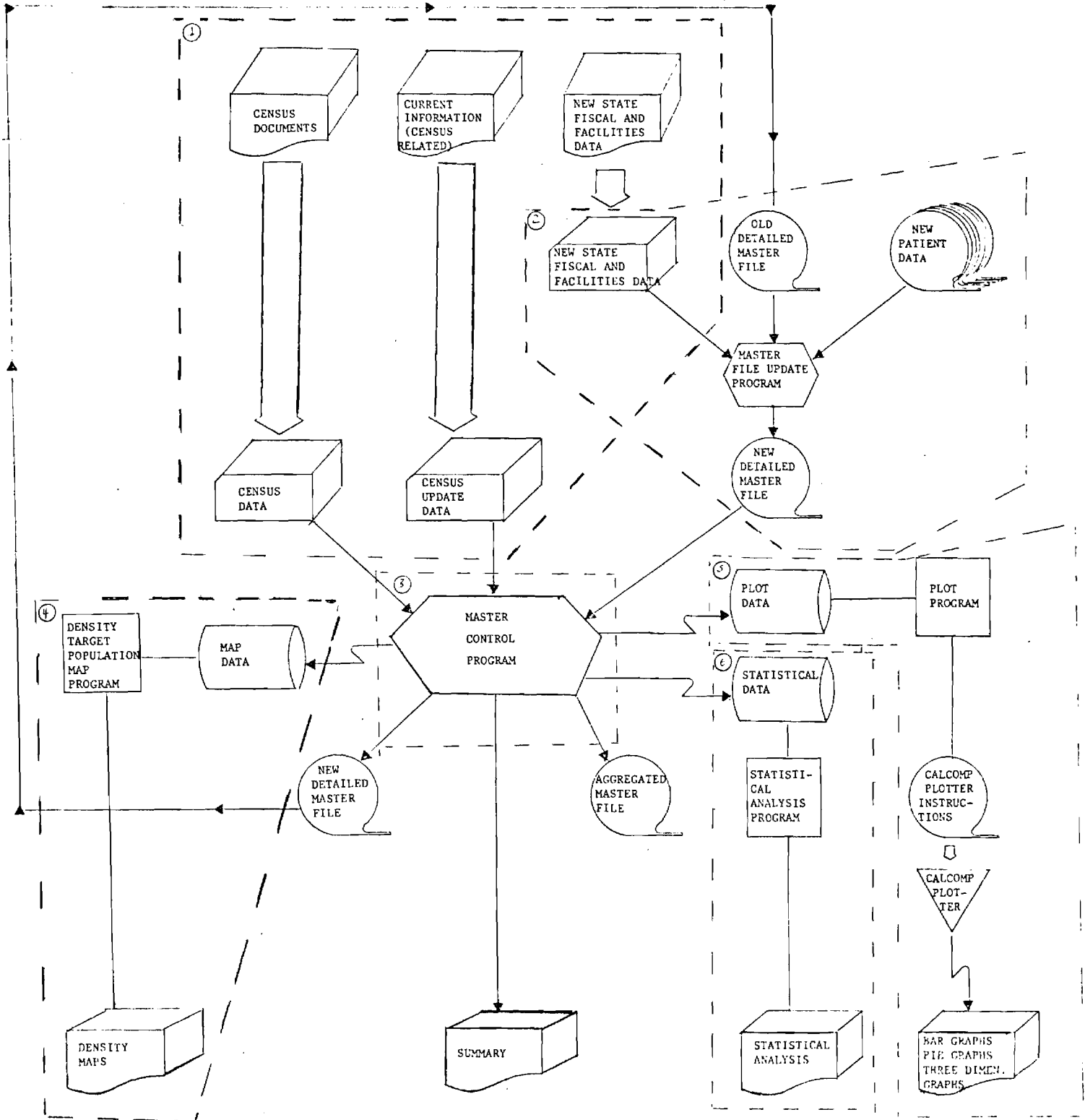
Here the Detailed Master tape file is read for the last time. Its data is heavily edited and summarized in the production of the Aggregated Master tape file. The program then closes and saves all files.

The following three options will be available on each run:

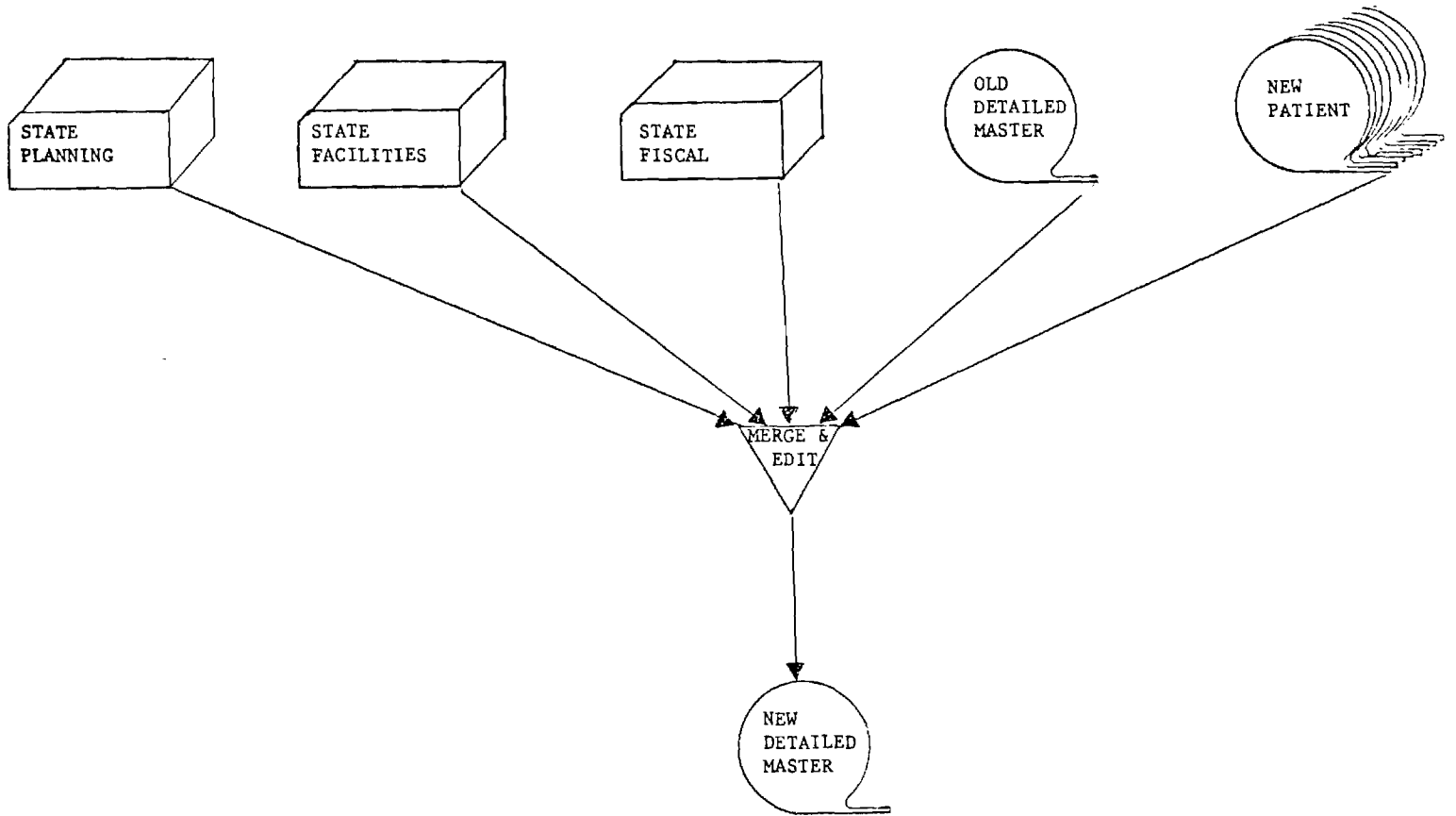
1. Full Production Run. Run is exactly as is outlined above.
2. Single State Run. Run is done exactly as above with the following exception: Run is made for only one state rather than all eight. Aggregated Master tape file is not produced.

3. Trend Analysis Run. In this run the sole input source is the collected Aggregated Master tape files of previous time periods. A trend analysis is then performed which will produce maps (one set for beginning of period and another for end of period); slightly differently formatted graphs; a statistical analysis; and summarized reports.

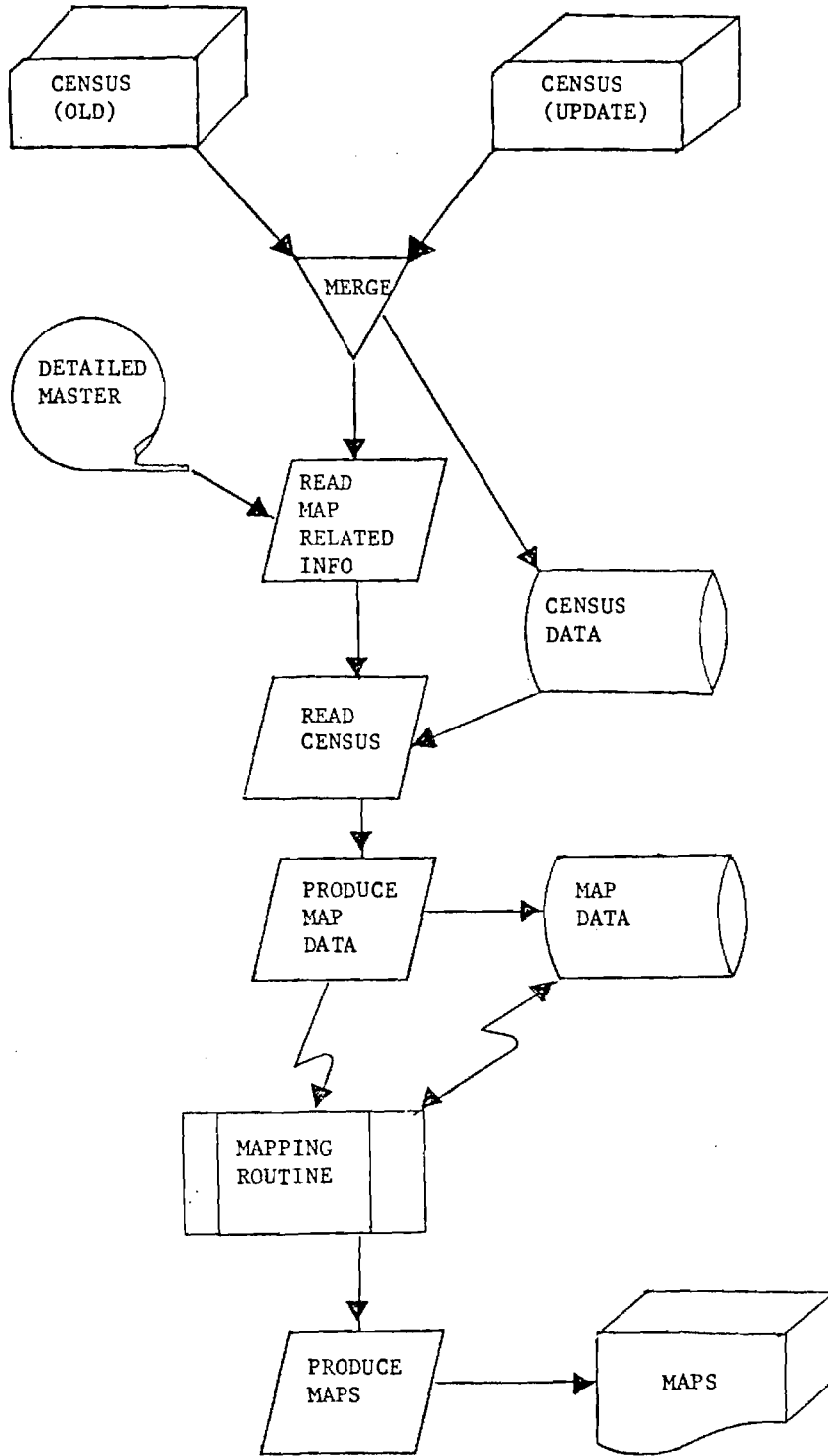
SYSTEM FLOWCHART



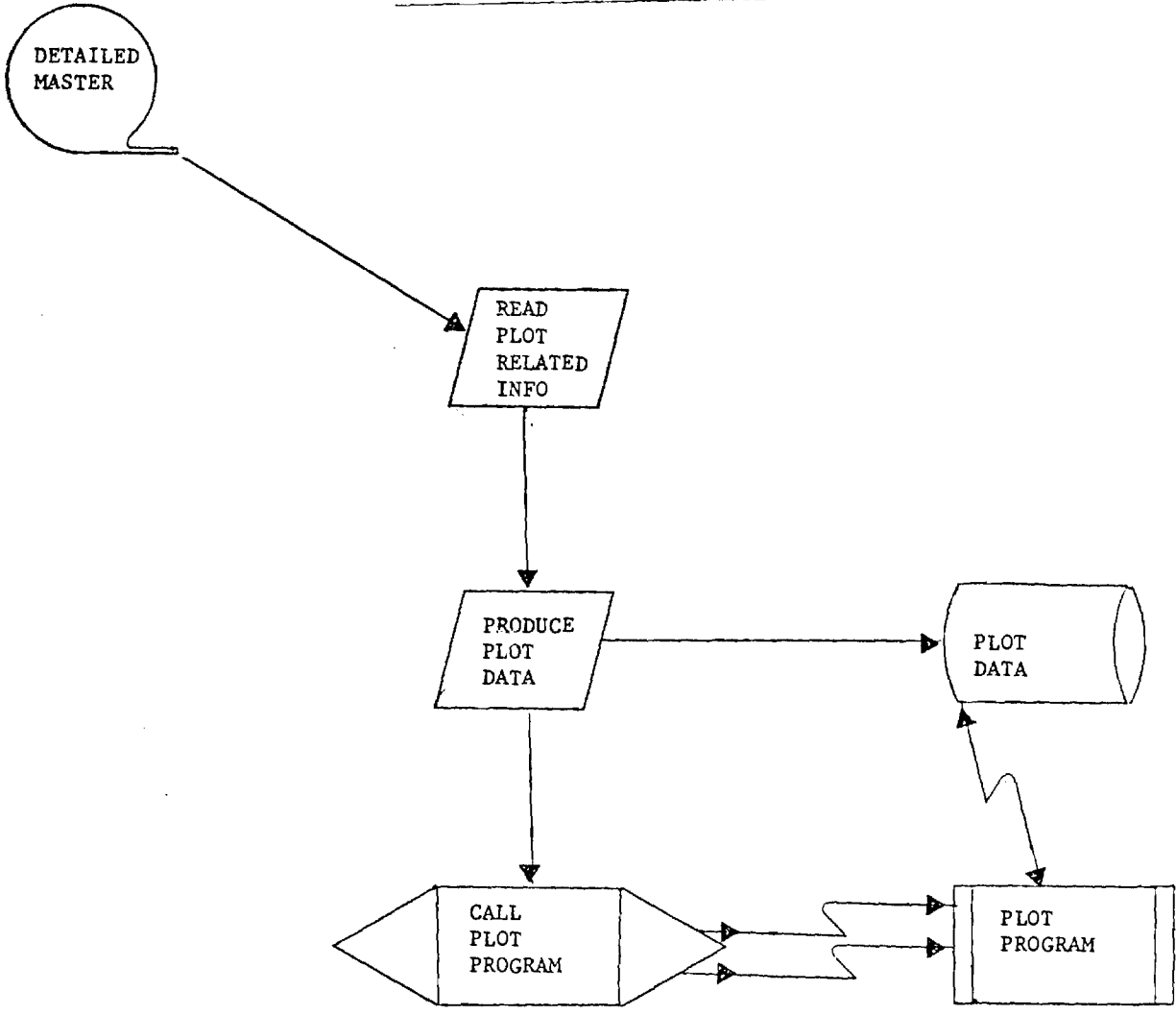
THE MASTER-FILE-SETUP SECTION



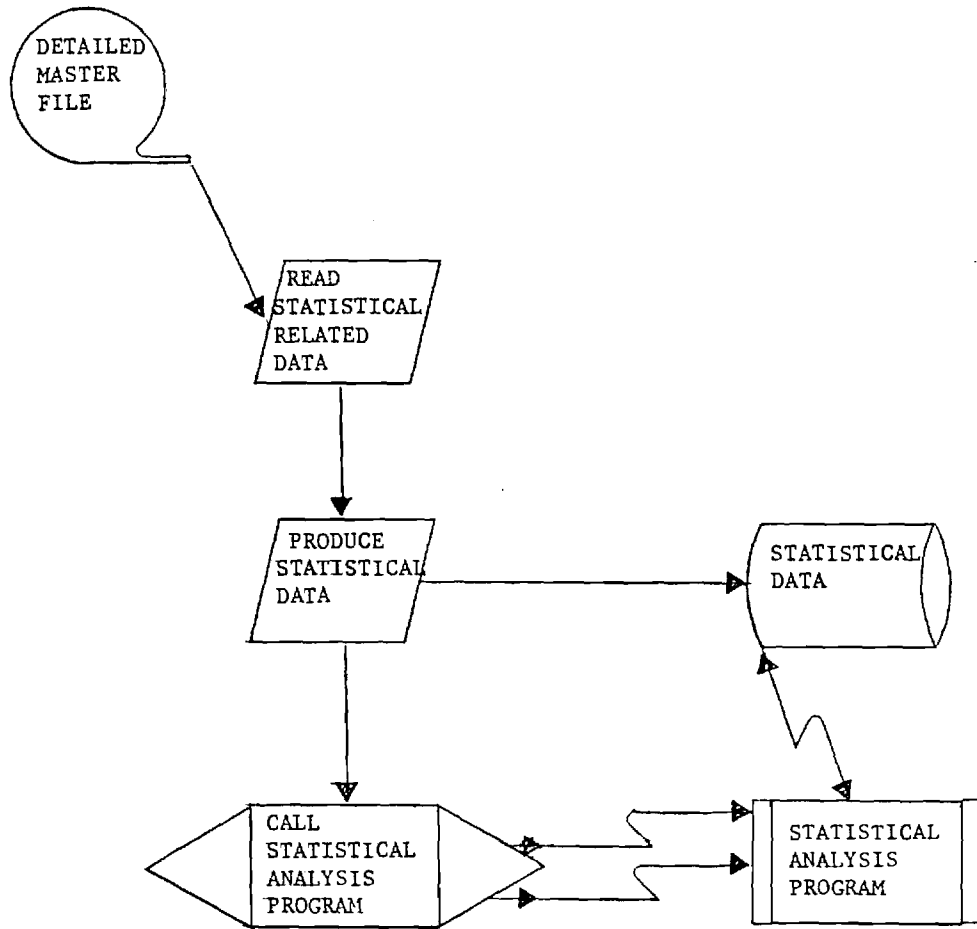
THE MAP-PRODUCTION SECTION



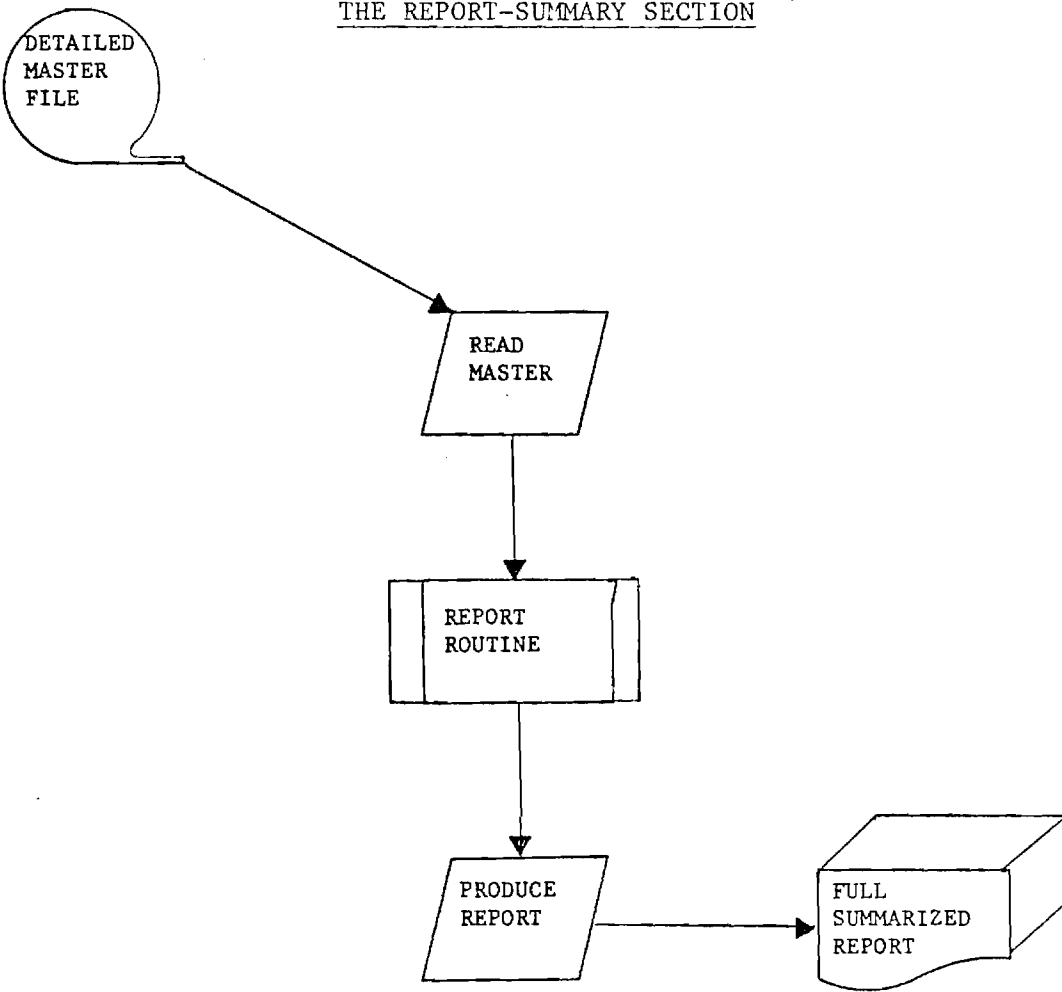
THE PLOT-PRODUCTION SECTION



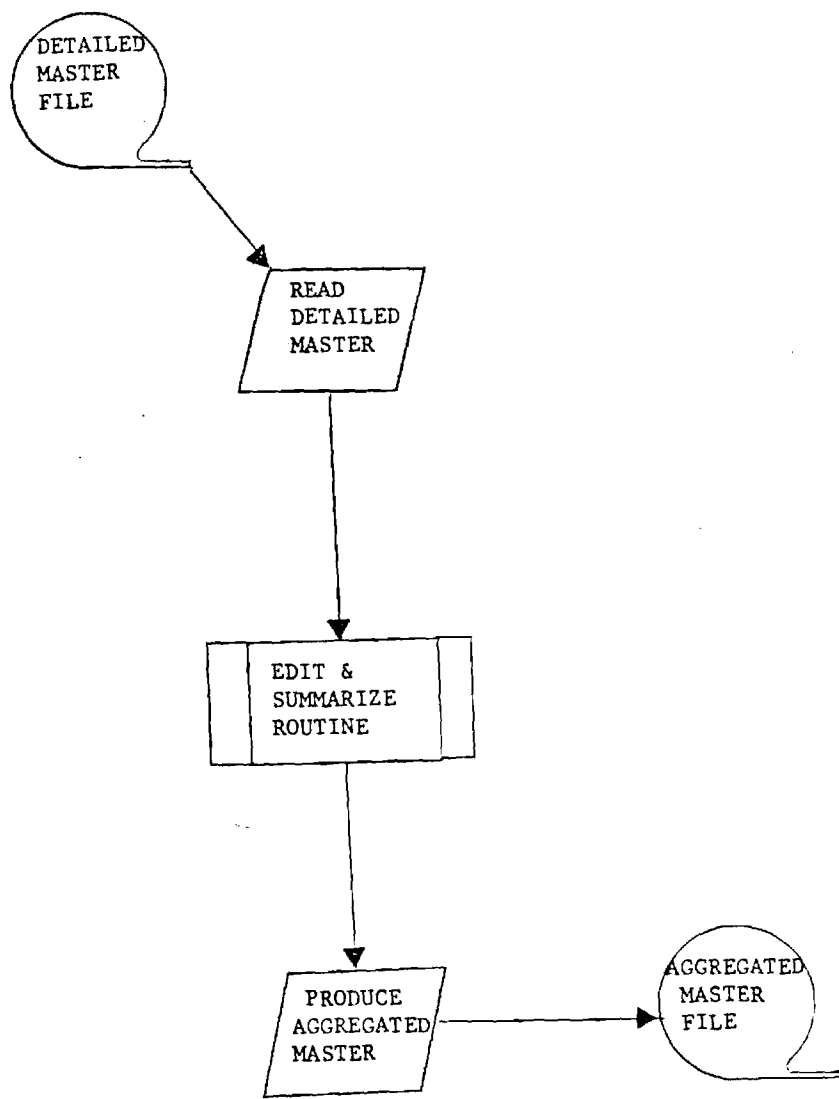
THE STATISTICAL-ANALYSIS SECTION



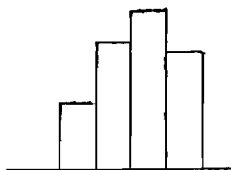
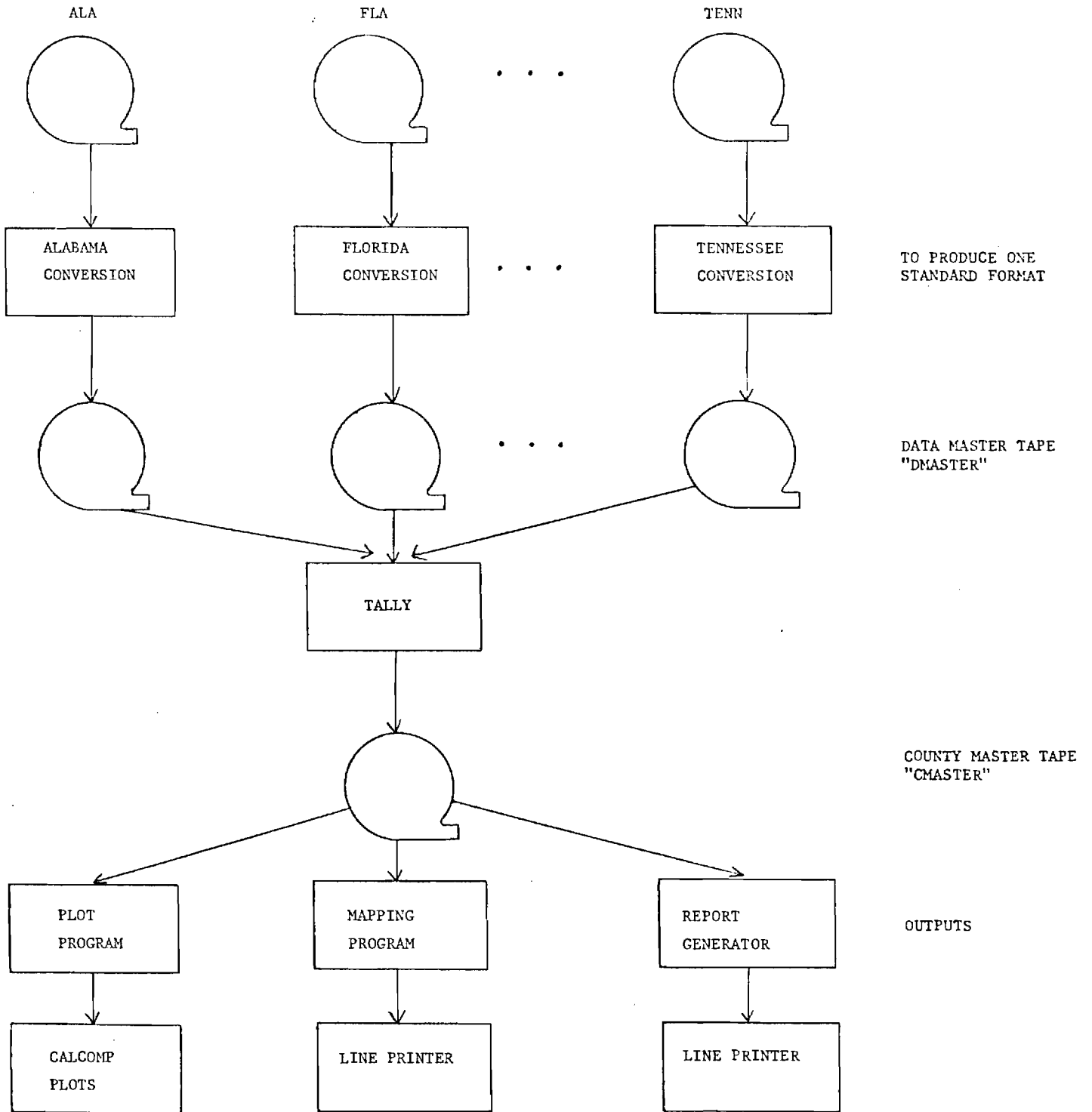
THE REPORT-SUMMARY SECTION



THE AGGREGATED-MASTER-FILE-PRODUCTION SECTION



SYSTEM DESIGN FOR PROCESSING OF PATIENT DATA FILES



	ITEM-1	ITEM-2
COUN-A	89	73
COUN-B	60	74

DATA CONVERSION PROGRAM

DATA CONVERSION PROGRAM

Since each of the eight states in Region IV has formulated its own format for recording the family planning-related information collected on computer tapes, it was necessary to design a standardized data base format for regional processing (see Design Considerations for a Regional Data Network). To create such a data base there was needed eight programs capable of reading the corresponding data from each of the states and assigning appropriate interpretations to the various data elements in order to convert them into the standard format. In the subsequent material the general and detailed description of these programs are given.

General

There are a total of eight programs, one for each state. In structure and function all are quite similar, but there are numerous minor differences in detail.

Having started the program either interactively by appropriate run command or by batch, the program requests an input tape, named tape-IN; the operator has to mount the corresponding data tape and make available a scratch tape for the master data base. It is very important to save other mounted tapes before attempting to reactivate the program, if a Burroughs computer system is used. The program labels the output tape DMASTER and stops whenever end of data is encountered on the input tape. It must be noted that the master file configuration is designed to be flexible and expandable. Therefore its overall size is larger than the input data formats, hence taking up a greater volume of tape. Generally 3 to 4 tapes are required for the conversion of one input tape.

Program Function

The primary function of each program is to read the input data in the format that is arranged for each particular state, interpret the data elements according to the format of the master file, and move the relevant information to this file. In accomplishing this, several points have to be considered.

(1) Is the input data element relevant to master file? (If not it is ignored.)

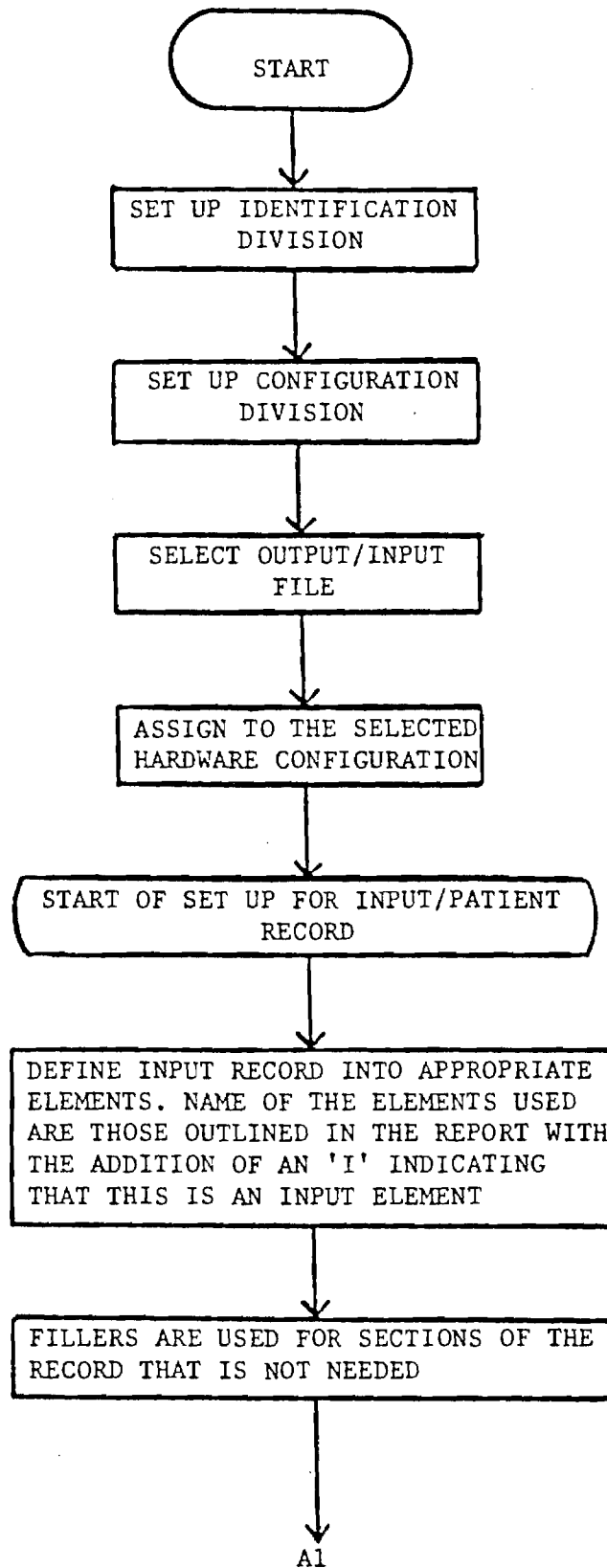
(2) If it is relevant, can it be directly moved to the corresponding output data element in the master file?

(3) Whenever this is not possible, then the content of the data element has to be interpreted and the most appropriate code is moved to the output element.

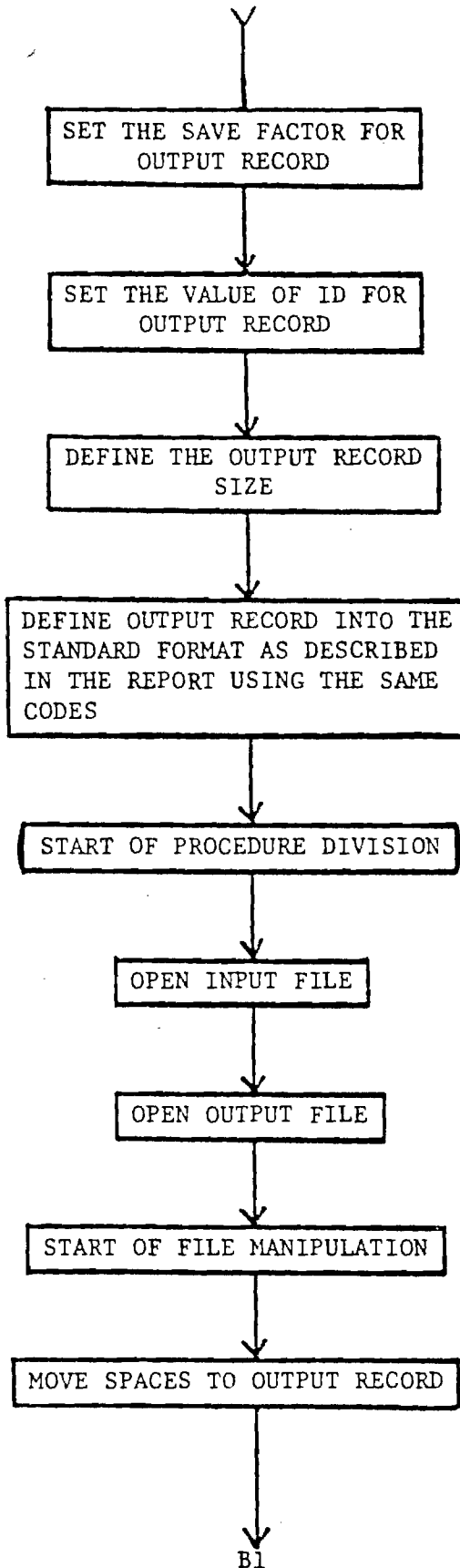
The next pages are used to present a flowchart of the data conversion program, a flowchart of the typical file manipulation process for a sample state, and a flowchart of the master program. These flowcharts are followed by a listing of standard data elements selected for the common regional data base, and this listing is followed in turn by actual sample data conversion programs for various states.

For further information, see the project report, Technical Objectives for the Proposed Linkage of Eight Family Planning Data Systems.

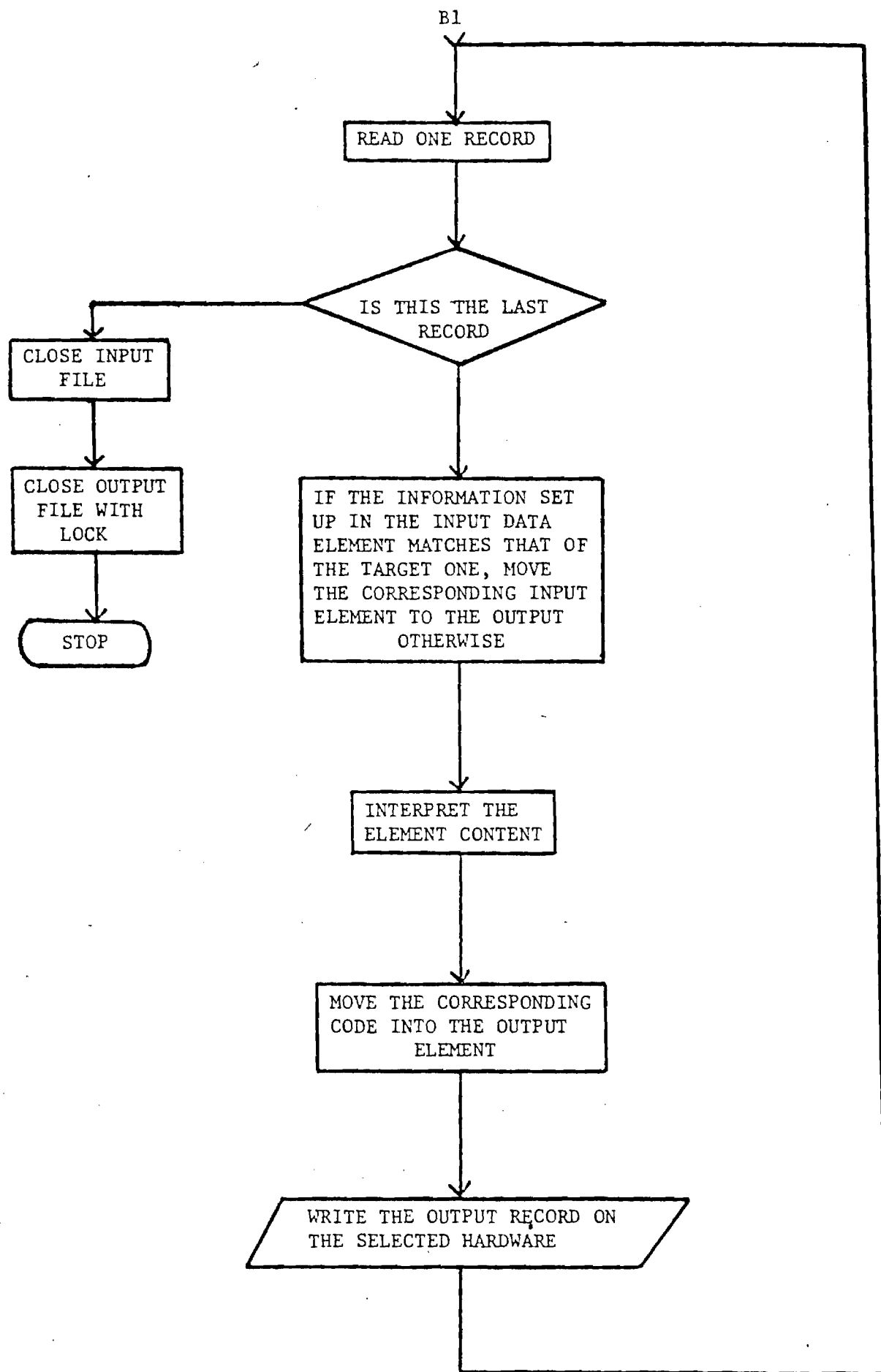
FLOW CHART OF DATA CONVERSION
PROGRAM



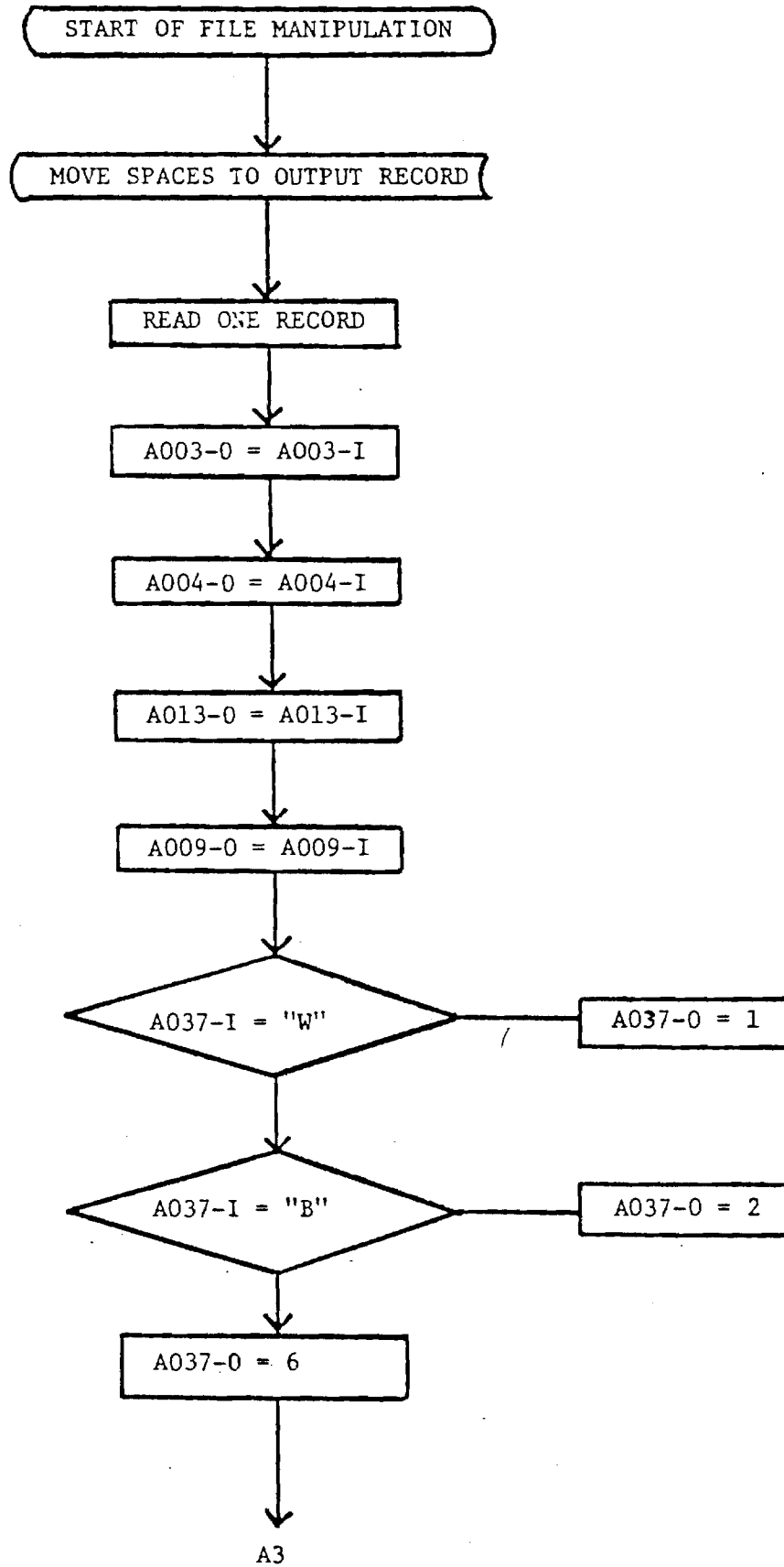
A1

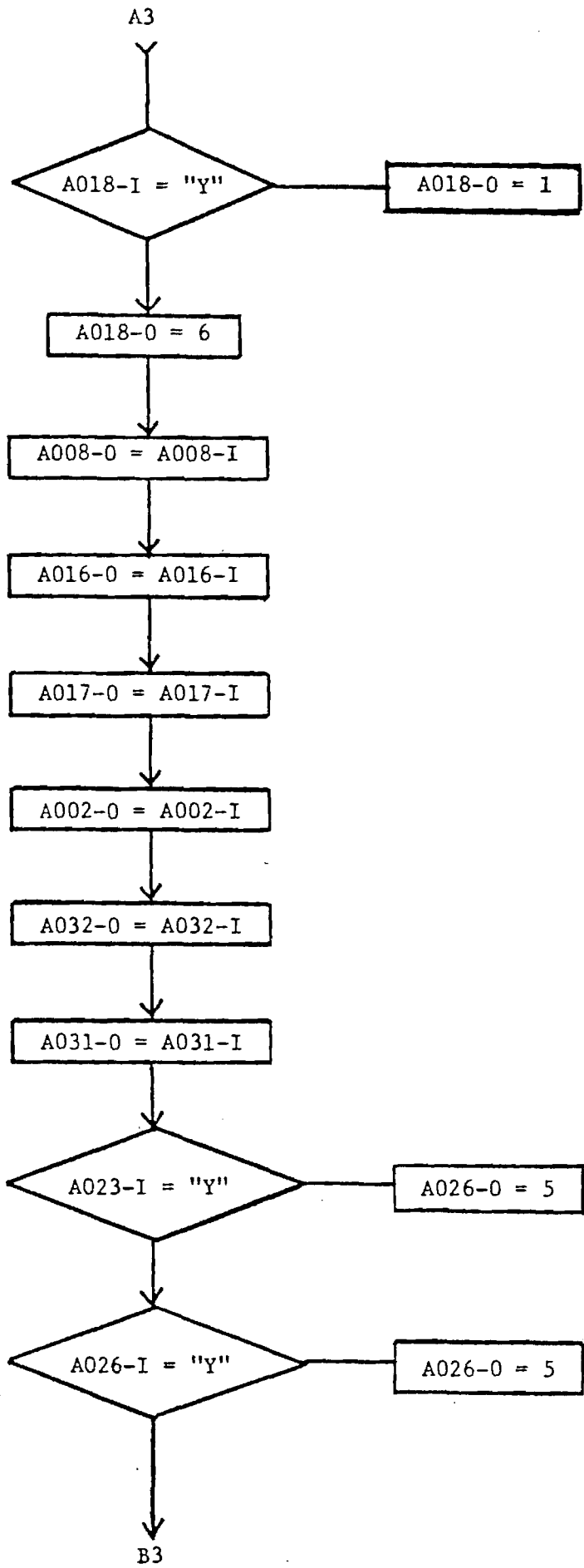


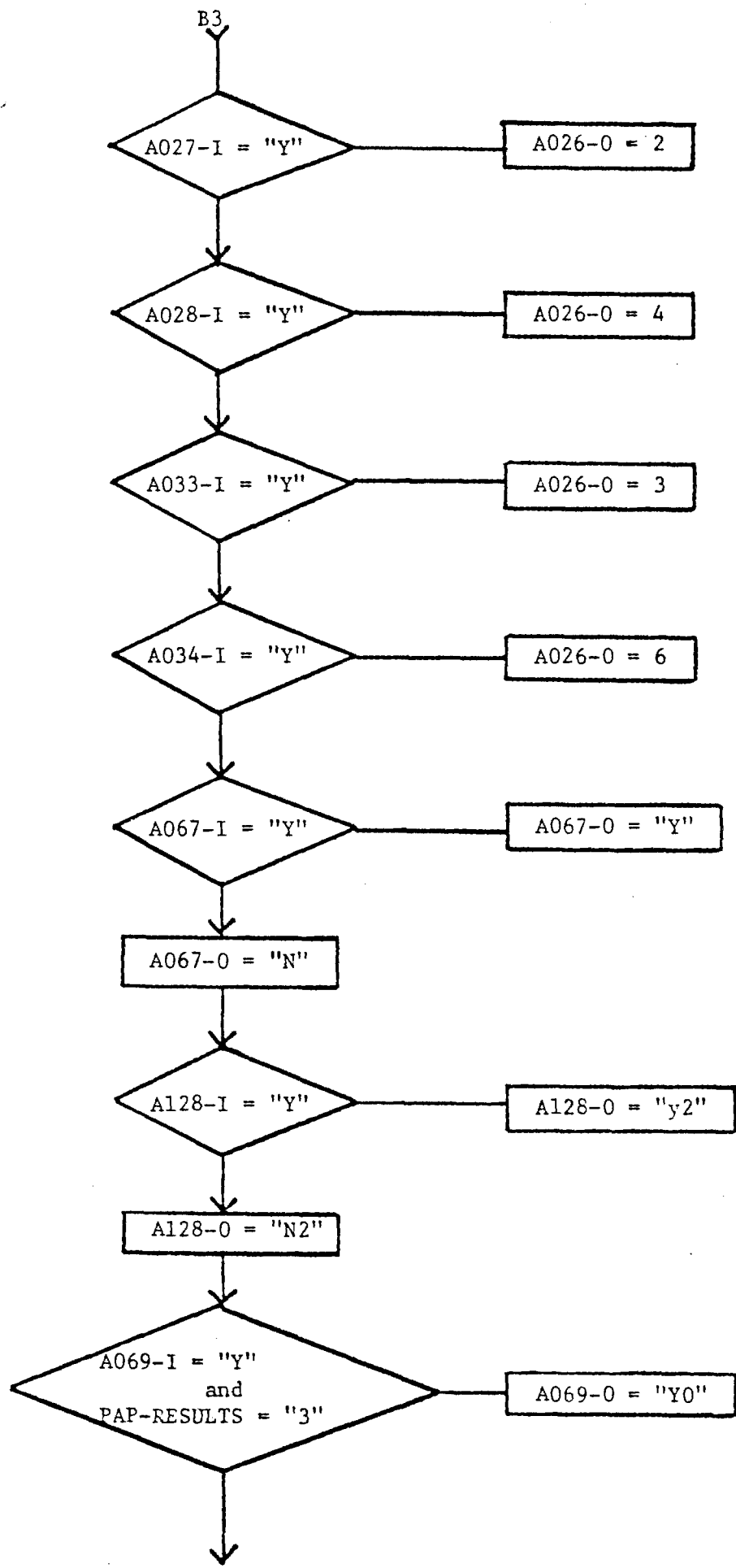
B1



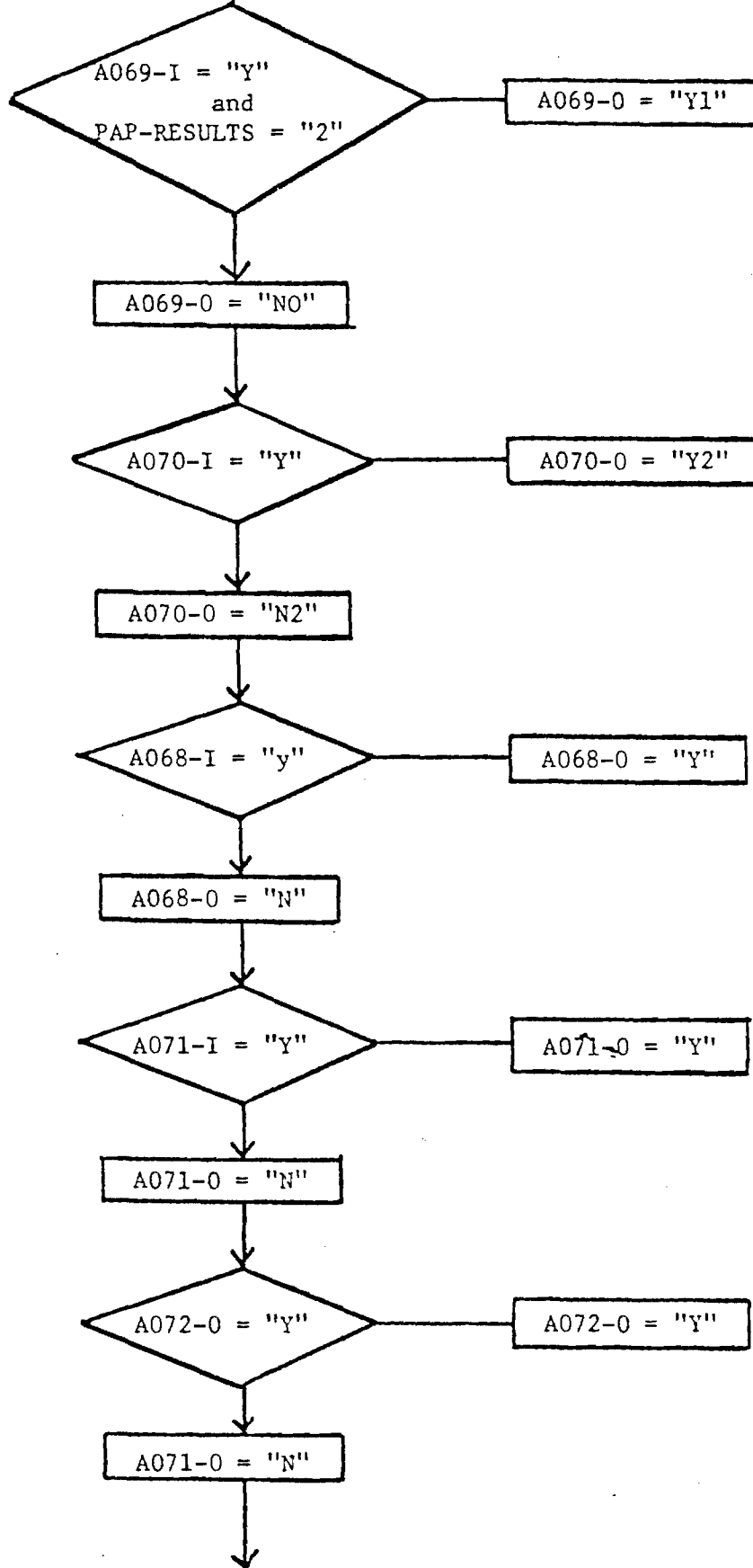
DETAILED FLOW CHART OF TYPICAL FILE
MANIPULATION PROCESS (GEORGIA)

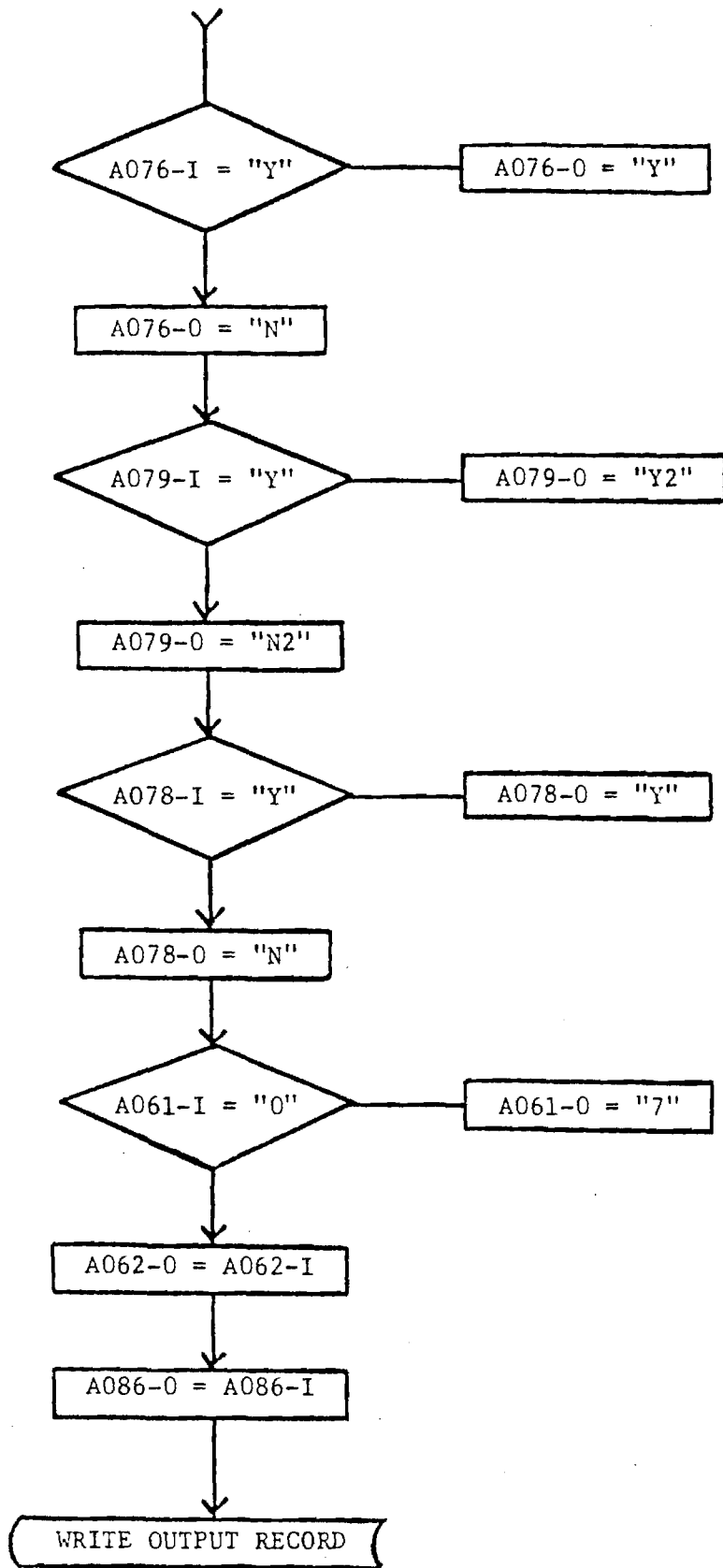




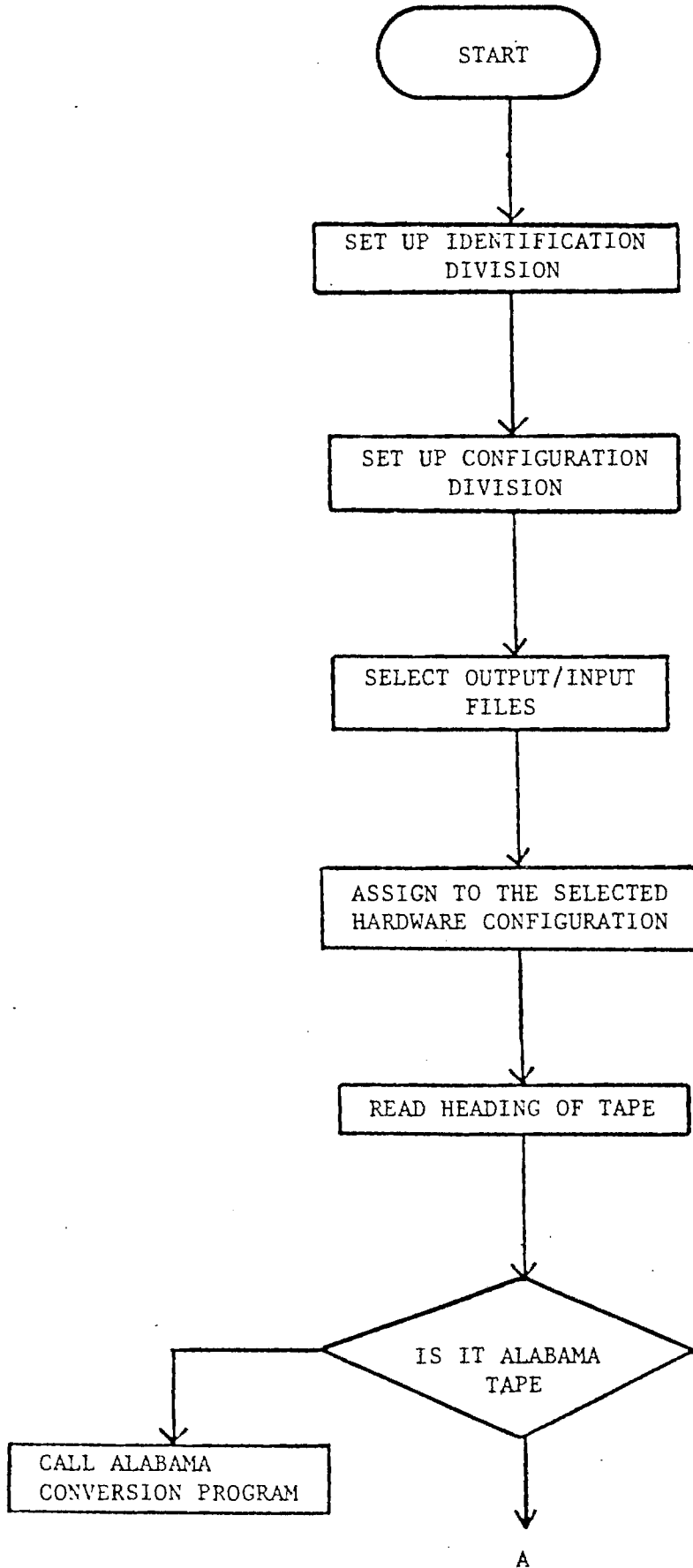


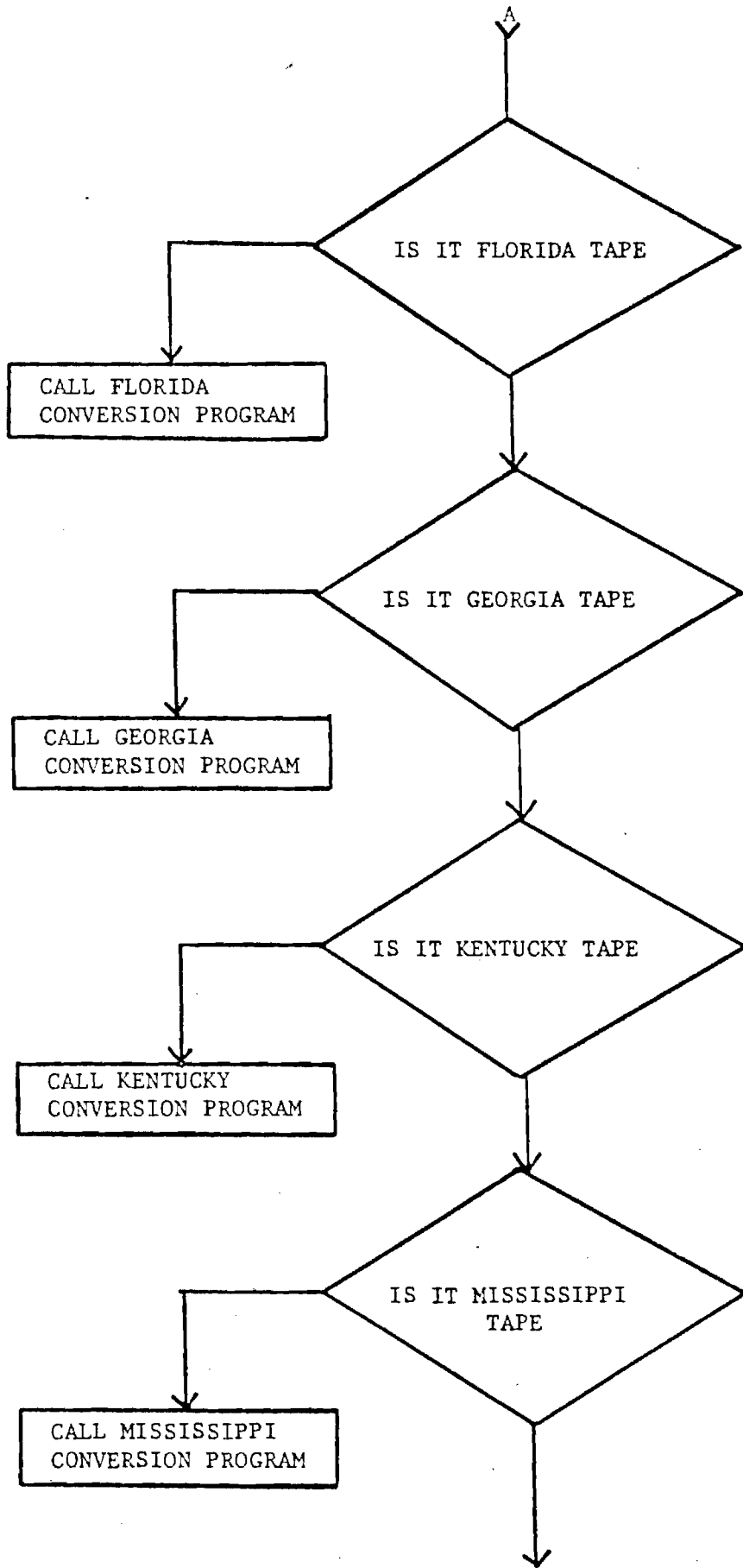
C3

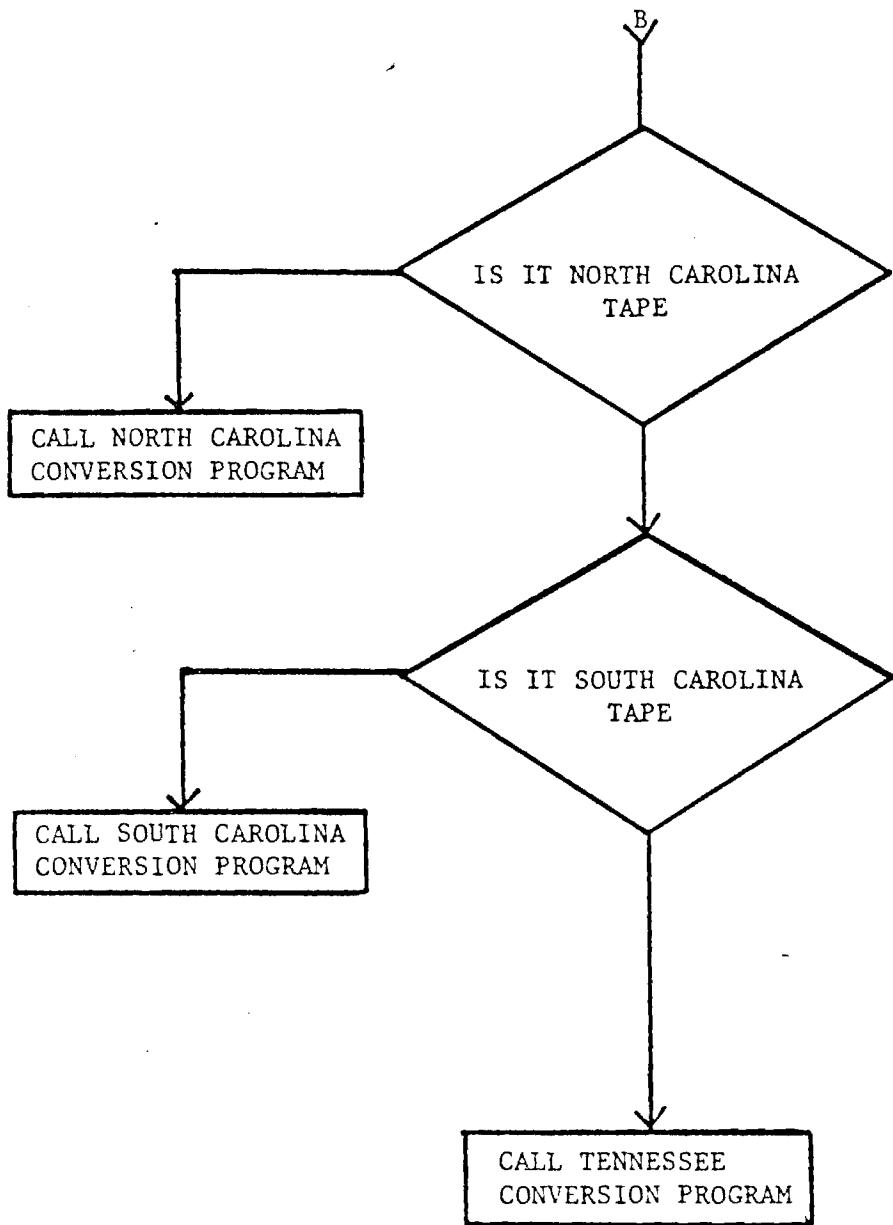




FLOW CHART OF MASTER
PROGRAM







	<u>DATA ELEMENT</u>	<u>DATA TYPE</u>	<u>NO. OF CHAR.</u>	<u>COMMENTS</u>	
Clinic	A003	STATE	N	3	
	A004	COUNTY NUMBER CLINIC NUMBER	N	5	
Patient	A013	STATE ASSIGNED NUMBER	N	9	
	A096	REGISTERED FOR MEDICAID	A	1	Y = "YES" N = "NO"
	A093	MEDICAID NUMBER	N	6	
	A009/11	SEX	A	1	F = 'FEMALE' M = 'MALE'
	A037/38 122/123 114/115	RACE	N	1	1 = 'WHITE' 2 = 'BLACK' 3 = 'AMERICAN INDIAN' 4 = 'MEXICAN AMERICAN' 5 = 'ORIENTAL' 6 = 'OTHER'
	A010	ETHNIC (Latin American Origin)	A	1	Y = "YES" N = "NO"
	A018/19	MARITAL STATUS	N	1	1 = 'MARRIED' 2 = 'NEVER MARRIED' 3 = 'SEPARATED' 4 = 'DIVORCED' 5 = 'SPOUSE DECEASED'
	A008	BORN ON	N	6	MO/DA/YR
	A016	WHAT COUNTY DO YOU LIVE IN	N	3	
	A017	HIGHEST GRADE OF SCHOOL COMPLETED	N	2	
	A095	CURRENTLY ON WELFARE	N	1	Family receiving financial assistance from the Dept. of Social Services: 0 = "NO" 1 = 'AFDC' 2 = 'APTD' 3 = 'AB' 4 = 'OTHER'
	A116	FINANCIAL STATUS	N	1	
	A119	NUMBER IN FAMILY, HOUSEHOLD	N	2	
Visit	A002	TODAY'S DATE	N	6	MO/DA/YR
	A094/110	TYPE OF THIS VISIT	N	1	0 = 'SUPPLY ONLY (SCHED.)' 1 = 'INTAKE' 2 = 'REVISIT (ANNUAL CHECKUP)' 3 = 'REVISIT (NOT FIRST OF YEAR)' 4 = 'SUPPLY ONLY (UNSCHED.)' 5 = 'UNSCHED. REVISIT FOR ANNUAL CHECKUP' 6 = 'UNSCHED. NON PROBLEM' 7 = 8 = 'UNSCHED. PROBLEM VISIT (including Annual Checkup)' 9 = 'UNSCHED. PROBLEM REVISIT'

	<u>DATA ELEMENT</u>	<u>DATA TYPE</u>	<u>NO. OF CHAR.</u>	<u>COMMENTS</u>	
Preg. History	A097	NUMBER OF PREGNANCIES	N	2	
	A098	NUMBER BORN ALIVE	N	2	
	A029	DATE LAST PREGNANCY ENDED	N	6	MO/DA/YR
	A100	OUTCOME OF LAST DELIVERY	N	1	1 = 'BORN ALIVE - TERM' 2 = 'BORN ALIVE - PREMATURE' 3 = 'BORN DEAD' 4 = 'MISCARRIAGE/ABORTION' 5 = 'NEVER PREGNANT' 6 = 'OTHER' 7 = 'UNKNOWN'
	A032	NUMBER OF FETAL DEATHS	N	2	
	A031	NUMBER OF PATIENT'S CHILDREN ALIVE NOW	N	2	
	Contra-ceptive History	A105	EVER USED ANY METHOD TO PREVENT PREGNANCY	A	1
A107/131		METHOD MOST USED IN LAST 2 YEARS	N	2	00 = 'NONE' 01 = 'ORAL' 02 = 'IUD' 03 = 'DIAPHRAGM' 04 = 'FOAM' 05 = 'RYTHM' 06 = 'CONDOM' 07 = 'INJECTION' 08 = 'STERILIZATION' 09 = 'OTHER' 10 = 'METHOD NOT KNOWN'
A040					
A039					
A044					
A042					
A046					
A043					
A041					
A045					
A047					
A048					
A049		WHO PRESCRIBED LATEST METHOD	N	1	1 = 'PRIVATE DOCTOR' 2 = 'PUBLIC CLINIC' 3 = 'DRUGGIST' 4 = 'OTHER'
A050					
A051					
A132					
Services Provided	A026	COUNSELING	N	1	1 = 'CONTRACEPTION COUNS.' 2 = 'STERILIZATION COUNS.' 3 = 'INFERTILITY COUNS.' 4 = 'ABORTION COUNS.' 5 = 'SOCIAL SERVICES COUNS.' 6 = 'OTHER'
	A027				
	A033				
	A028				
	A023				
	A034				
	A067	BLOOD PRESSURE	A	1	Y = YES N = NO
	A074	V.D. BLOOD TEST	A	1	Y = YES N = NO
	A073	HCT OR HGB	A	1	Y = YES N = NO
	A129	BLOOD TEST	A	1	Y = YES N = NO
	A128	VDRL	A/N	2	1. character: Y=YES 2 ch.: 0=neg. result N=NO 1=pos. result
	A069	PAP SMEAR	A/N	2	1. character: Y=YES 2 ch.: 0=neg. result N=NO 1=pos. result
	A070	G.C. - culture	A/N	2	1. character: Y=YES 2 ch.: 0=neg. result N=NO 1=pos. result

	<u>DATA ELEMENT</u>	<u>DATA TYPE</u>	<u>NO. OF CHAR.</u>	<u>COMMENTS</u>
	A068 BREAST	A	1	Y = YES N = NO
	A071 PELVIC EXAM	A	1	Y = YES N = NO
	A072 URINALYSIS	A	1	Y = YES N = NO
	A075 SICKLE CELL ANEMIA	A/N	2	1. character: Y=YES 2 ch.: 0=neg. result N=NO 1=pos. result
	A076 STERILIZATION	A	1	Y = YES N = NO
	A077 INFERTILITY	A	1	Y = YES N = NO
	A079/80 PREGNANCY TEST	A/N	2	1. character: Y=YES 2 ch.: 0=neg. result N=NO 1=pos. result
	A078 OTHER	A	1	Y = YES N = NO
Contra- ceptive Methods Used After Visit	A061 METHOD AFTER VISIT	N	1	0 = 'NONE'
	A053			1 = 'ORAL'
	A052			2 = 'IUD'
	A057			3 = 'DIAPHRAGM'
	A055			4 = 'FOAM'
	A059			5 = 'RYTHM'
	A056			6 = 'CONDOM'
	A054			7 = 'INJECTION'
	A058			8 = 'STERILIZATION'
	A060			9 = 'OTHER'
	A062 REASON FOR STOPPING METHOD	N	1	1 = 'PREGNANT - PLANNED'
	A063			2 = 'PREGNANT - UNPLANNED'
	A064			3 = 'SEEKING PREGNANCY'
	A065			4 = 'MEDICAL REASON'
	A066			5 = 'OTHER'
A087 REFERRED ELSEWHERE	N	1	1 = 'SOCIAL SERVICES'	
A088			2 = 'MEDICAL SERVICES'	
A089			3 = 'STERILIZATION'	
A090			4 = 'ABORTION'	
A091			5 = 'INFERTILITY TREATMENT'	
A092			6 = 'OTHER'	
A0135 PATIENT SEEN BY	N	1	0 = 'PHYSICIAN' 6 = 'AIDE'	
			1 = 'P.H.N.' 7 = 'CLERK'	
			2 = 'F.P.H.N.' 8 = 'NUTRITIONIST'	
			3 = 'NURSE MIDWIFE' 9 = 'OTHER'	
			4 = 'L.P.N.'	
			5 = 'SOCIAL SERVICES'	
A101 MAIN SOURCE OF REFERRAL	N	2	00 = 'SELF'	
			01 = 'OUTREACH WORKER'	
			02 = 'OTHER FP CLINIC'	
			03 = 'HOSPITAL OR OTHER HEALTH AGENCY'	
			04 = 'PRIVATE DOCTOR/NURSE'	
			05 = 'WELFARE AGENCY'	
			06 = 'ANOTHER CLINIC PATIENT'	
			07 = 'FAMILY OR FRIEND'	
			08 = 'TV, RADIO, PAPER AD'	
			09 = 'OTHER'	
			10 = 'UNKNOWN'	
A086 DATE OF NEXT APPOINTMENT	N	6	MO/DA/YR	
A081 PURPOSE OF NEXT APPOINTMENT	N	1	1 = 'SUPPLY VISIT OR STRING CHECK'	

<u>DATA ELEMENT</u>	<u>DATA TYPE</u>	<u>NO. OF CHAR.</u>	<u>COMMENTS</u>
A082			2 = 'ANNUAL EXAMINATION'
A083			3 = 'MEDICAL PROBLEM'
A084			4 = 'OTHER'
A085			5 = 'NO NEXT APPOINTMENT'
A112	REASON FOR DISCHARGE	N 1	1 = 'STERILIZATION'
			2 = 'MENOPAUSE'
			3 = 'MEDICAL REASON'
			4 = 'PATIENT MOVED'
			5 = 'PATIENT LOST INTEREST'
			6 = 'PREGNANCY DESIRED'
			7 = 'PREGNANCY UNPLANNED'
			8 = 'UNKNOWN'

```

50*SLIST
11200*IDENTIFICATION DIVISION.
11300*PROGRAM-ID, ALABAMA.
11400*AUTHOR, F TASIIMI.
11500*INSTALLATION, RICH COMPUTER CENTER.
11600*DATE-WRITTEN, SFFT 25, 1975.
11700*DATE-COMPILED.
11800*ENVIRONMENT DIVISION.
11900*CONFIGURATION SECTION.
12000*SOURCE-COMPUTER, F-5700 WITH DEBUGGING MODE.
12100*OBJECT-COMPUTER, F-5700.
12200*INPUT-OUTPUT SECTION.
12300*FILE-CONTROL.
12400*       SELECT TAFF-OUT ASSIGN TO TAPE.
12500*       SELECT TAFF-IN ASSIGN TO TAPE.
12550*       SELECT REPORT=O ASSIGN TO BACKUP TAPE.

```

```

12600**
12700*I-O-CONTROL.
12800*DATA DIVISION.
12900*FILE SECTION.
13000*FD TAPE-IN
13100*       RECORD CONTAINS 106 CHARACTERS
13200*       LABEL RECORDS ARE OMITTED
13250*       RECORDING MODE IS NON-STANDARD
13300*       BLOCK CONTAINS 20 RECORDS.

```

```

13400**
13500**
13600**
13700**
13800**

```

```

*****
          DEFINITION OF INPUT PATIENT RECORD
*****

```

```

14000**
14100**
14200**
14300**
14400**
14500**
14600**
14700**
14800*01
14900*02
15000*02
15100*02
15200*02
15300*02
15400*02
15500*02
15600*02
15700*02
15800*02
15900*02
16000*02
16100*02
16200*02
16300*02
16400*02
16500*02
16600*02
16700*02
16800*02
16900*02
17000*02
17100*02
17200*02
17300*02
17400*02
17500*02
17600*02
17700*02
17800*02
17900*02
18000*02
18100*02
18200*02
18500**
38800**
38900**
39000**
39100**
39200**
39300**

```

```

PATIENT-RECORD-I.
FILLER                                PIC X(2).
A003-I                                PIC X(2).
A004-I                                PIC X(4).
A013-I                                PIC X(9).
FILLER                                PIC X(9).
A002-I                                PIC X(6).
A094-I                                PIC X(1).
A008-I                                PIC X(6).
M OCCURS 10 TIMES PIC X(1).
A026-I                                PIC X(3).
A087-I                                PIC X(3).
A061-I                                PIC X(2).
A062-I                                PIC X(1).
A086-I                                PIC X(6).
A081-I                                PIC X(1).
FILLER                                PIC X(2).
A098-I                                PIC 9(2).
A032-I                                PIC 9(1).
A031-I                                PIC X(2).
A029-I                                PIC X(6).
A095-I                                PIC X(1).
A096-I                                PIC X(1).
A017-I                                PIC X(2).
A010-I                                PIC X(1).
A037-I                                PIC X(1).
A009-I                                PIC X(1).
A101-I                                PIC X(1).
A105-I                                PIC X(1).
FILLER                                PIC X(1).
A107-I                                PIC X(1).
A049-I                                PIC X(1).
A116-I                                PIC X(1).
A119-I                                PIC X(2).
FILLER                                PIC X(13).

```

```

*****

```

DEFINITION OF OUTPUT-PATIENT RECORD

```

39400**
39500**
39600**
39700**
39800**
39900**
40000**
40100*FD TAPE-OUT
40200*   SAVE-FACTOR IS 300
40204*   LABEL RECORDS ARE STANDARD
40214*   VALUE OF IF IS "DMASTER"
40224*   RECORDING MODE IS STANDARD
40234*   RECORD CONTAINS 80 CHARACTERS
40244*   BLOCK CONTAINS 30 RECORDS.
62700* 01 CLINIC-DATA.
62800*   02 STATE-NAME PIC X(3).
62900*   02 A003 PIC 9(3).
63000*   02 A004 PIC 9(5).
63100*   02 FILLER PIC X(69).
63200* 01 PATIENT-DATA.
63300*   02 A013 PIC 9(9).
63400*   02 A093 PIC X(1).
63500*   02 A003 PIC 9(6).
63600*   02 A009 PIC X(1).
63700*   02 A037 PIC 9(1).
63800*   02 A010 PIC X(1).
63900*   02 A012 PIC 9(1).
64000*   02 A002 PIC 9(6).
64100*   02 A016 PIC 9(3).
64200*   02 A017 PIC 9(2).
64300*   02 A095 PIC 9(1).
64400*   02 A116 PIC 9(1).
64500*   02 A119 PIC 9(2).
64600*   02 FILLER PIC X(45).
64700* 01 VISIT-DATA.
64800*   02 A002 PIC 9(6).
64900*   02 A094 PIC 9(1).
65000*   02 FILLER PIC X(73).
65100* 01 PREG-HISTORY.
65200*   02 A097 PIC 9(2).
65300*   02 A098 PIC 9(2).
65400*   02 A029 PIC 9(6).
65500*   02 A100 PIC 9(1).
65600*   02 A032 PIC 9(2).
65700*   02 A031 PIC 9(2).
65800*   02 FILLER PTC X(65).
65900* 01 CONTRACEPTIVE-HISTORY.
66000*   02 A105 PIC X(1).
66100*   02 A107 PIC 9(2).
66200*   02 A049 PTC 9(1).
66300*   02 FILLER PIC X(76).
66400* 01 SERVICE-PROVIDED.
66500*   02 A026 PIC 9(1).
66600*   02 A067 PIC X(1).
66700*   02 A074 PIC X(1).
66800*   02 A073 PIC X(1).
66900*   02 A129 PIC X(1).
67000*   02 A128 PIC X(2).
67100*   02 A069 PIC X(2).
67200*   02 A070 PIC X(2).
67300*   02 A068 PIC X(1).
67400*   02 A071 PIC X(1).
67500*   02 A072 PIC X(1).
67600*   02 A075 PIC X(2).
67700*   02 A076 PIC X(1).
67800*   02 A077 PIC X(1).
67900*   02 A079 PIC X(2).
68000*   02 A078 PIC X(1).
68100*   02 A061 PIC 9(1).
68200*   02 A062 PIC 9(1).
68300*   02 A087 PIC 9(1).
68400*   02 A0135 PIC 9(1).
68500*   02 A101 PIC 9(2).
68600*   02 A086 PIC 9(6).
68700*   02 A081 PIC 9(1).
68800*   02 A112 PIC 9(1).
68900*   02 FILLER PIC X(45).
69000*FD REPORT-D
69010*   RECORD CONTAINS 112 CHARACTERS.
69020* 01 LIN-OUT.
69030*   02 SUB-LIN PIC X(106).
69040*   02 SUB-DUMMY PIC X(6).
76500**

```

```

76600**
76700**
76800**
76900**
77000**
77100**
77200**
77300**
77304*WORKING-STORAGE SECTION.
77309*      01  X
77350*      01  C
77360*      01 ONE PIC 9 VALUE 1.
77400*PROCEDURE DIVISION.
77500*OPEN-UP SECTION.
77600*BNJ.
77700*      OPEN INPUT TAPE-IN.
77800*      OPEN OUTPUT TAPE-OUT.
77850*      OPEN OUTPUT REPORT-O.
77900*FILE-MANIPULATION.
78000*      MOVE ALL "N" TO CLINIC-DATA.
78100*      MOVE ALL "N" TO PATIENT-DATA.
78200*      MOVE ALL "N" TO VISIT-DATA.
78300*      MOVE ALL "N" TO PREG-HISTORY.
78400*      MOVE ALL "N" TO CONTRACEPTIVE-HISTORY.
78500*      MOVE ALL "N" TO SERVICE-PROVIDED.
78600*READ-ONE.
78700*      READ TAPE-IN AT END GO TO END.
78720*      MOVE SPACES TO SUB-DUMMY.
78750*      MOVE PATIENT-RECORD-I TO SUB-LIN.
78760*      WRITE LIN-OUT.
78800*      MOVE "ALA" TO STATE-NAME.
106200*      MOVE A003-I TO A003-O.
106300*      MOVE A004-I TO A004-O.
106310*      WRITE CLINIC-DATA.
106320*      MOVE ALL "N" TO PATIENT-DATA.
106400*      MOVE A013-I TO A013-O.
106500*      IF A009-I EQUALS "1" MOVE "F" TO A009-O ELSE MOVE "M" TO A009-O.
106600*      MOVE A037-I TO A037-O.
106700*      IF A037-I EQUALS "4" OR " " MOVE 6 TO A037-O.
106800*      IF A010-I EQUALS "0" OR " " MOVE "N" TO A010-I ELSE
106805*      MOVE "Y" TO A010-I.
106900*      MOVE A008-I TO A008-O.
107000*      MOVE A017-I TO A017-O.
107100*      IF A095-I EQUALS "2" MOVE 0 TO A095-O ELSE MOVE 4 TO A095-O.
107200*      MOVE A116-I TO A116-O.
107300*      MOVE A119-I TO A119-O.
107310*      WRITE PATIENT-DATA.
107320*      MOVE ALL "N" TO VISIT-DATA.
107400*      MOVE A002-I TO A002-O.
107500*      MOVE A094-I TO A094-O.
107600*      IF A094-I EQUALS "4" MOVE 9 TO A094-O.
107610*      WRITE VISIT-DATA.
107620*      MOVE ALL "N" TO PREG-HISTORY.
107700*      ADD A098-I , A032-I GIVING C MOVE C TO A097-O.
107800*      MOVE A098-I TO A098-O.
107900*      MOVE A032-I TO A032-O.
108000*      MOVE A031-I TO A031-O.
108010*      WRITE PREG-HISTORY.
108020*      MOVE ALL "N" TO CONTRACEPTIVE-HISTORY.
108100*      MOVE "N" TO A105-O.
108200*      IF A105-I EQUALS "X" MOVE "Y" TO A105-O.
108300*      MOVE A107-I TO A107-O.
108400*      IF A107-I EQUALS "8" MOVE 9 TO A107-O.
108410*      IF A107-I EQUALS " " MOVE 10 TO A107-O.
108500*      MOVE A049-I TO A049-O.
108600*      IF A049-I EQUALS "2" MOVE 1 TO A049-O ELSE
108700*      IF A049-I EQUALS "1" MOVE 2 TO A049-O.
108710*      IF A049-I EQUALS " " MOVE 4 TO A049-O.
108715*      WRITE CONTRACEPTIVE-HISTORY.
108720*      MOVE ALL "N" TO SERVICE-PROVIDED.
108800*      IF A026-I EQUALS "2" MOVE 1 TO A026-O ELSE
108900*      IF A026-I EQUALS "1" MOVE 2 TO A026-O ELSE
109000*      IF A026-I EQUALS "3" MOVE 3 TO A026-O ELSE
109100*      MOVE 6 TO A026-O.
109200*      MOVE ONE TO X.
109350*PARA-2
109400*      IF M(X) EQUALS " " OR " " GO TO END-LOOP ELSE
109450*      IF M(X) EQUALS "1" MOVE "Y" TO A069-O ELSE
109500*      IF M(X) EQUALS "2" MOVE "Y" TO A071-O ELSE
109550*      IF M(X) EQUALS "3" MOVE "Y" TO A068-O ELSE
109600*      IF M(X) EQUALS "4" MOVE "Y" TO A067-O ELSE
109650*      IF M(X) EQUALS "5" MOVE "Y" TO A079-O ELSE
109700*      IF M(X) EQUALS "6" MOVE "Y" TO A074-O ELSE

```


1000**
2000**
3000**
4000**
5000**
6000**
7000**
8000**
9000**
10000**
11000**
12000**
13000**
14000**
15000**
16000**
17000**
18000**
19000**
20000**
21000**
22000**
23000**
24000**
25000**
26000**
27000**
28000**
29000**
30000**
31000**
32000**
33000**
34000**
35000**
36000**
37000**
38000**
39000**
40000**
41000**
42000**
43000**
44000**
45000**
46000**
47000**
48000**
49000**
50000**
51000**
52000**
53000**
54000**
55000**
56000**
57000**
58000**
59000**
60000**
61000**
62000**
63000**
64000**
65000**
66000**
67000**
68000**
69000**
70000**
71000**
72000**
73000**
74000**
75000**
76000**
77000**
78000**
79000**
80000**
81000**

ALABAMA
DATA
CONVERSION
PROGRAM

DATA CONVERSION PROGRAM

THIS PROGRAM CONVERTS THE REGIONAL DATA INTO A STANDARD FORM AS DESCRIBED BELOW. THERE IS A TOTAL OF 6 PROGRAMS FOR THE CONVERSION OF DATA FROM 6 DIFFERENT STATES.

THE FOLLOWING IS THE STANDARD DATA BASE BEING PROPOSED TO REPRESENT THE MAXIMAL SET OF PATIENT-LEVEL DATA ITEMS.

DATA ELEMENT	NO. OF CHAR.
A003 COUNTY NUMBER	3
A004 CLINIC NUMBER	5
A013 STATE ASSIGNED NUMBER	9
A096 REGISTERED FOR MEDICAID	1
A093 MEDICAID NUMBER	6
A009 SEX	1
A037 RACE	1
A010 ETHNIC	1
A018 MARITAL STATUS	1
A008 BORN IN	1
A018 WHAT COUNTY DO YOU LIVE IN	6
A017 HIGHEST GRADE OF SCHOOL COMPLETED	3
A095 CURRENTLY ON WELFARE	2
A116 FINANCIAL STATUS	1
A119 NUMBER IN FAMILY HOUSEHOLD	1
A002 TODAYS DATE	2
A094 TYPE OF THIS VISIT	6
A097 NUMBER OF PREGNANCIES	1
A098 NUMBER BORN ALIVE	2
A029 DATE LAST PREGNANCY ENDED	2
A100 OUTCOME OF LAST DELIVERY	6
A032 NUMBER OF FATAL DEATHS	1
A031 NO. OF PATIENTS CHILDREN ALIVE NOW	2
A105 EVER USED ANY METHOD TO PREVENT PG.	1
A107, A039-48 METHOD MOST USED IN LAST 2 YEARS	1
A132, A049-51 WHO PRESCRIBED LATEST METHOD	2
A023, A026-28, A033 COUNSELING	1
A067 BLOOD PRESSURE	1
A074 V.D. FLOOD TEST	1
A073 HCT OF HGB	1
A129 BLOOD TEST	1
A128 VDRL	1
A069 PAP SMEAR	2


```

67000*      02 A128=C          PIC X(2).
67100*      02 A069=C          PIC X(2).
67200*      02 A070=C          PIC X(2).
67300*      02 A068=C          PIC X(1).
67400*      02 A071=C          PIC X(1).
67500*      02 A072=C          PIC X(1).
67600*      02 A075=C          PIC X(2).
67700*      02 A076=C          PIC X(1).
67800*      02 A077=C          PIC X(1).
67900*      02 A079=C          PIC X(2).
68000*      02 A078=C          PIC X(1).
68100*      02 A061=C          PIC 9(1).
68200*      02 A062=C          PIC 9(1).
68300*      02 A087=C          PIC 9(1).
68400*      02 A0135=C        PIC 9(1).
68500*      02 A101=C          PIC 9(2).
68600*      02 A086=C          PIC 9(6).
68700*      02 A081=C          PIC 9(1).
68800*      02 A112=C          PIC 9(1).
68900*      02 FILLER        PIC X(45).
76500**      @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@
76600**      @
76700**      @      PROCEDURE DIVISION (FILE MANIPULATION)      @
76800**      @
76900**      @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@
77000**
77100**
77200**
77300**
77304* WORKING-STORAGE SECTION.
77306*77 I      PIC 9(11).
77309*          01 X          PIC 9 COMP.
77350*          01 C          PIC 9 COMP.
77360*          01 ONE      PIC 9 VALUE 1.
77400* PROCEDURE DIVISION.
77500* OPEN-UP SECTION.
77600* BOJ.
77700* OPEN INPUT TAPE-IN.
77800* OPEN OUTPUT TAPE-OUT.
77810* DO-LOOP.
77820* READ TAPE-IN AT END GO TO FOJ.
77830* PERFORM FILE-MANIPULATION VARYING I FROM 1 BY 1
77840* UNTIL I IS GREATER THAN 20.
77850* GO TO DO-LOOP.
77900* FILE-MANIPULATION SECTION.
77910* DD0A1.
78000*          MOVE ALL "N" TO CLINIC-DATA.
78100*          MOVE ALL "N" TO PATIENT-DATA.
78200*          MOVE ALL "N" TO VISIT-DATA.
78300*          MOVE ALL "N" TO PREG-HISTORY.
78400*          MOVE ALL "N" TO CONTRACEPTIVE-HISTORY.
78500*          MOVE ALL "N" TO SERVICE-PROVIDED.
78800*          MOVE "ALAB" TO STATE-NAME.
106200*          MOVE A003-I(I) TO A003-0.
106300*          MOVE A004-I(I) TO A004-0.
106310*          WRITE CLINIC-DATA.
106320*          MOVE ALL "N" TO PATIENT-DATA.
106400*          MOVE A013-I(I) TO A013-0.
106500*          IF A009-I(I) EQUALS "1" MOVE "F" TO A009-0 ELSE
106550*          MOVE "M" TO A009-0.
106600*          MOVE A037-I(I) TO A037-0.
106700*          IF A037-I(I) EQUALS "4" OR " " MOVE 6 TO A037-0.
106800*          IF A010-I(I) EQUALS "0" OR " " MOVE "N" TO A010-I(I) ELSE
106805*          MOVE "Y" TO A010-I(I).
106900*          MOVE A008-I(I) TO A008-0.
107000*          MOVE A017-I(I) TO A017-0.
107100*          IF A095-I(I) EQUALS "2" MOVE 0 TO A095-0 ELSE
107130*          MOVE 4 TO A095-0.
107200*          MOVE A116-I(I) TO A116-0.
107300*          MOVE A119-I(I) TO A119-0.
107310*          WRITE PATIENT-DATA.
107320*          MOVE ALL "N" TO VISIT-DATA.
107400*          MOVE A002-I(I) TO A002-0.
107500*          MOVE A094-I(I) TO A094-0.
107600*          IF A094-I(I) EQUALS "4" MOVE 0 TO A094-0.
107610*          WRITE VISIT-DATA.
107620*          MOVE ALL "N" TO PREG-HISTORY.
107700*          AND A098-I(I) , A032-I(I) GIVING C; MOVE C TO A097-0.
107800*          MOVE A098-I(I) TO A098-0.
107900*          MOVE A032-I(I) TO A032-0.
108000*          MOVE A031-I(I) TO A031-0.
108010*          WRITE PREG-HISTORY.
108020*          MOVE ALL "N" TO CONTRACEPTIVE-HISTORY.

```

```

108100*   MOVE "N" TO A105=0.
108200*   IF A105-I(I) EQUALS "X" MOVE "Y" TO A105=0.
108300*   MOVE A107-I(I) TO A107=0.
108400*   IF A107-I(I) EQUALS "8" MOVE 9 TO A107=0.
108410*   IF A107-I(I) EQUALS " " MOVE 10 TO A107=0.
108500*   MOVE A049-I(I) TO A049=0.
108600*   IF A049-I(I) EQUALS "2" MOVE 1 TO A049=0 ELSE
108700*   IF A049-I(I) EQUALS "1" MOVE 2 TO A049=0.
108710*   IF A049-I(I) EQUALS " " MOVE 4 TO A049=0.
108715*   WRITE CNTRFACEPTIVE-HISTORY.
108720*   MOVE ALL "N" TO SERVICE-PROVIDED.
108800*   IF A026-I(I) EQUALS "2" MOVE 1 TO A026=0 ELSE
108900*   IF A026-I(I) EQUALS "1" MOVE 2 TO A026=0 ELSE
109000*   IF A026-I(I) EQUALS "3" MOVE 3 TO A026=0 ELSE
109100*   MOVE 6 TO AC26=0.
109200*   MOVE ONE TO X.
109350* PARA=2.
109400*   IF M(I,X) EQUALS " " OR " " GO TO END-LOOP ELSE
109450*   IF M(I,X) EQUALS "1" MOVE "Y0" TO A069=0 ELSE
109500*   IF M(I,X) EQUALS "2" MOVE "Y" TO A071=0 ELSE
109550*   IF M(I,X) EQUALS "3" MOVE "Y" TO A068=0 ELSE
109600*   IF M(I,X) EQUALS "4" MOVE "Y" TO A067=0 ELSE
109650*   IF M(I,X) EQUALS "5" MOVE "Y0" TO A079=0 ELSE
109700*   IF M(I,X) EQUALS "6" MOVE "Y" TO A074=0 ELSE
109750*   IF M(I,X) EQUALS "7" MOVE "Y" TO A072=0 ELSE
109800*   IF M(I,X) EQUALS "8" MOVE "Y" TO A129=0 ELSE
109850*   IF M(I,X) EQUALS "9" MOVE "Y" TO A076=0 ELSE
109900*   IF M(I,X) EQUALS "0" MOVE "Y" TO A077=0 ELSE
109950*   IF M(I,X) EQUALS "X" MOVE "Y" TO A078=0.
109960*   ADD ONE TO X.
109965*   IF X IS LESS THAN 11 GO TO PARA=2.
110000* END-LOOP.
110300*   MOVE A061-I(I) TO A061=0.
110400*   IF A061-I(I) EQUALS "X" OR " " MOVE 9 TO A061=0.
110500*   MOVE A062-I(I) TO A062=0.
110600*   IF A062-I(I) EQUALS "2" MOVE 4 TO A062=0.
110700*   IF A062-I(I) EQUALS "4" OR " " MOVE 5 TO A062=0.
110800*   IF A087-I(I) EQUALS "5" MOVE 1 TO A087=0.
110900*   IF A087-I(I) EQUALS "4" MOVE 2 TO A087=0.
111000*   IF A087-I(I) EQUALS "2" MOVE 3 TO A087=0.
111100*   IF A087-I(I) EQUALS "1" MOVE 4 TO A087=0.
111200*   IF A087-I(I) EQUALS "3" MOVE 5 TO A087=0.
111300*   IF A087-I(I) EQUALS "0" OR " " MOVE 6 TO A087=0.
111500*   MOVE A101-I(I) TO A101=0.
111600*   IF A101-I(I) EQUALS "0" OR " " MOVE 10 TO A101-I(I) .
111700*   MOVE A086-I(I) TO A086=0.
111800*   MOVE A081-I(I) TO A081=0.
111900*   WRITE SERVICE-PROVIDED.
112800*   MOVE ALL "N" TO CLINIC-DATA.
112900* ENJ SECTION.
112910* DODA2.
113000*   CLOSE TAPE-IN.
113100*   CLOSE TAPE-OUT WITH LOCK.
113200*   STOP RUN.

```


8100**	*	A069 PAP SMEAR	2	*	*
8200**	*	A070 G.C. CULTURE	2	*	*
8300**	*	A068 BRFAST	1	*	*
8400**	*	A071 PELVIC EXAM	1	*	*
8500**	*	A072 URINALYSIS	1	*	*
8600**	*	A075 SICKLE CELL ANEMIA	2	*	*
8700**	*	A076 STERILIZATION	1	*	*
8800**	*	A077 INFERTILITY	1	*	*
8900**	*	A079 PREGNANCY TEST	2	*	*
9000**	*	A078 OTHER	1	*	*
9100**	*	A052-62		*	*
9200**	*	METHOD AFTER VISIT	1	*	*
9300**	*	A062-66		*	*
9400**	*	REASON FOR STOPPING METHOD	1	*	*
9500**	*	A087-92		*	*
9600**	*	REFERRED ELSEWHERE	1	*	*
9700**	*	A0135 PATIENT SEEN BY	1	*	*
9800**	*	A101 MAIN SOURCE OF REFERRAL	2	*	*
9900**	*	A086 DATE OF NEXT APPOINTMENT	6	*	*
10000**	*	A081-85		*	*
10100**	*	A081-85		*	*
10200**	*	PURPOSE OF NEXT APPOINTMENT	1	*	*
10300**	*	A112 REASON FOR DISCHARGE	1	*	*
10400**				*	*
10500**	*			*	*
10600**	*	FOR MORE DETAILED INFORMATION REFER TO THE REPORT		*	*
10700**	*			*	*
10800**	*	*****		*	*
10900**				*	*
11000**				*	*
11100**				*	*
11200**		IDENTIFICATION DIVISION.		*	*
11300**		PROGRAM-ID GFORGJA.		*	*
11400**		AUTHOR F. ASLIMI.		*	*
11500**		INSTALLATION. RICH COMPUTER CENTER.		*	*
11600**		DATE-WRITTEN. SEPT 25, 1975.		*	*
11700**		DATE-COMPILED.		*	*
11800**		ENVIRONMENT DIVISION.		*	*
11900**		CONFIGURATION SECTION.		*	*
12000**		SOURCE-COMPUTER. P-5700 WITH DEBUGGING MODE.		*	*
12100**		OBJECT-COMPUTER. P-5700.		*	*
12200**		INPUT-OUTPUT SECTION.		*	*
12300**		FILE-CONTROL		*	*
12400**		SELECT TAPE-OUT ASSIGN TO TAPE.		*	*
12500**		SELECT TAPE-IN ASSIGN TO TAPE.		*	*
12700**		I-O-CONTROL.		*	*
12800**		DATA DIVISION.		*	*
12900**		FILE SECTION.		*	*
13000**		FD TAPE-IN		*	*
13100**		RECORD CONTAINS 200 CHARACTERS		*	*
13101*		LABEL RECORDS ARE OMITTED.		*	*
13103*		RECORDING MODE IS NON-STANDARD		*	*
13300**		BLOCK CONTAINS 10 RECORDS.		*	*
13400**				*	*
13500**				*	*
13600**				*	*
13700**				*	*
13800**				*	*
13900**				*	*
14000**				*	*
14100**				*	*
14200**				*	*
14300**				*	*
14400**				*	*
14500**				*	*
14600**				*	*
14700**				*	*
14800**	01	PATIENT-RECORD-I.		*	*
14900**	02	FILLER		*	*
15000**	02	A013-I		*	*
15100**	02	FILLER		*	*
15200**	02	A037-I		*	*
15300**	02	A009-I		*	*
15400**	02	A008-I		*	*
15500**	02	FILLER		*	*
15600**	02	A067-I		*	*
15700**	02	A068-I		*	*
15800**	02	A069-I		*	*
15900**	02	A070-I		*	*
16000**	02	A071-I		*	*
16100**	02	A072-I		*	*
16200**	02	FILLER		*	*
16300**	02	A128-I		*	*

```

*****
DEFINITION OF INPUT PATIENT RECORD
*****

```

14900**	02	FILLER		PIC X(1).	*
15000**	02	A013-I		PIC X(9).	*
15100**	02	FILLER		PIC X(9).	*
15200**	02	A037-I		PIC X(1).	*
15300**	02	A009-I		PIC X(1).	*
15400**	02	A008-I		PIC X(6).	*
15500**	02	FILLER		PIC X(40).	*
15600**	02	A067-I		PIC X(1).	*
15700**	02	A068-I		PIC X(1).	*
15800**	02	A069-I		PIC X(1).	*
15900**	02	A070-I		PIC X(1).	*
16000**	02	A071-I		PIC X(1).	*
16100**	02	A072-I		PIC X(1).	*
16200**	02	FILLER		PIC X(1).	*
16300**	02	A128-I		PIC X(1).	*

100 *
200 *
300 *
400 *
500 *
600 *
700 *
800 *
900 *
1000 *
1100 *
1200 *
1300 *
1400 *
1500 *
1600 *
1700 *
1800 *
1900 *
2000 *
2100 *
2200 *
2300 *
2400 *
2500 *
2600 *
2700 *
2800 *
2900 *
3000 *
3100 *
3200 *
3300 *
3400 *
3500 *
3600 *
3700 *
3800 *
3900 *
4000 *
4100 *
4200 *
4300 *
4400 *
4500 *
4600 *
4700 *
4800 *
4900 *
5000 *
5100 *
5200 *
5300 *
5400 *
5500 *
5600 *
5700 *
5800 *
5900 *
6000 *
6100 *
6200 *
6300 *
6400 *
6500 *
6600 *
6700 *
6800 *
6900 *
7000 *
7100 *
7200 *
7300 *
7400 *
7500 *
7600 *
7700 *
7800 *
7900 *
8000 *
8100 *

DATA
CONVERSION
PROGRAM

KENTUCKY

DATA
CONVERSION
PROGRAM

DATA CONVERSION PROGRAM

THIS PROGRAM CONVERTS THE REGIONAL DATA INTO A STANDARD FORM AS DESCRIBED BELOW. THERE IS A TOTAL OF 6 PROGRAMS FOR THE CONVERSION OF DATA FROM 6 DIFFERENT STATES.

THE FOLLOWING IS THE STANDARD DATA BASE BEING PROPOSED TO REPRESENT THE MAXIMAL SET OF PATIENT-LEVEL DATA ITEMS.

DATA ELEMENT NO. OF CHAR.
=====

- A003 COUNTY NUMBER 3
- A004 CLINIC NUMBER 5
- A013 STATE ASSIGNED NUMBER 9
- A096 REGISTERED FOR MEDICATION 1
- A093 MEDICAID NUMBER 6
- A009 SEX 1
- A037 RACE 1
- A010 ETHNIC 1
- A018 MARITAL STATUS 1
- A008 BORN IN 1
- A018 WHAT COUNTY DO YOU LIVE IN 6
- A017 HIGHEST GRADE OF SCHOOL COMPLETED 3
- A095 CURRENTLY ON WELFARE 2
- A116 FINANCIAL STATUS 1
- A119 NUMBER IN FAMILY HOUSEHOLD 1
- A002 TODAYS DATE 2
- A094 TYPE OF THIS VISIT 6
- A097 NUMBER OF PREGNANCIES 1
- A098 NUMBER BORN ALIVE 2
- A029 DATE LAST PREGNANCY ENDED 2
- A100 OUTCOME OF LAST DELIVERY 6
- A032 NUMBER OF FATAL DEATHS 1
- A031 NO. OF PATIENTS CHILDREN ALIVE NOW 2
- A105 EVER USED ANY METHOD TO PREVENT PG. 1
- A107, A039-4P METHOD MOST USED IN LAST 2 YEARS 2
- A132, A049-51 WHO PRESCRIBED LATEST METHOD 1
- A023, A026-2P, A033 COUNSELING 1
- A067 BLOOD PRESSURE 1
- A074 V. D. BLOOD TEST 1
- A073 HCT OF HGB 1
- A129 BLOOD TEST 1
- A128 VDPL 2
- A069 PAP SMEAR 2

```

R200** * A070 G.C.-CULTURE 2
R300** * A068 BRFAST 1
R400** * A071 PELVIC FXAM 1
R500** * A072 URINALYSIS 1
R600** * A075 SICKLE CELL ANEMIA 2
R700** * A076 STERILIZATION 1
R800** * A077 INFERTILITY 1
R900** * A079 PREGNANCY TEST 2
9000** * A078 OTHER 1
9100** * A052-62
9200** * METHOD AFTER VISIT 1
9300** * A062-66
9400** * REASON FOR STOPPING METHOD 1
9500** * A087-92
9600** * REFERRED ELSEWHERE 1
9700** * A0135 PATIENT SPEN BY 1
9800** * A101 MAIN SOURCE OF REFFRAL 2
9900** * A086 DATE OF NEXT APPOINTMENT 6
10000** * A081-85
10100** * A081-85
10200** * PURPOSE OF NEXT APPOINTMENT 1
10300** * A112 REASON FOR DISCHARGE 1
10400**
10500**
10600** * FOR MORE DETAILED INFORMATION REFER TO THE REPORT
10700**
10800** *****
10900**
11000**
11100**
11200** IDENTIFICATION DIVISION.
11300** PROGRAM-ID, KENTUCKY.
11400** AUTHDR, F TAJIMI.
11500** INSTALLATION, RICH COMPUTER CENTER.
11600** DATE-WRITTEN, SEPT 25, 1975.
11700** DATE-COMPILED.
11800** ENVIRONMENT DIVISION.
11900** CONFIGURATION SECTION.
12000** SOURCE-COMPUTER, P-5700 WITH DEBUGGING MODE.
12100** OBJECT-COMPUTER, P-5700.
12200** INPUT-OUTPUT SECTION.
12300** FILE-CONTROL.
12400** SELECT TAPE-OUT ASSIGN TO DISK ACCESS MODE IS SEQUENTIAL.
12500** SELECT TAPE-IN ASSIGN TO 1 * 100 DISK
12600** ACCESS MODE IS SEQUENTIAL.
12700** I-O-CONTROL.
12800** DATA DIVISION.
12900** FILE SECTION.
13000** FD TAPE-IN
13100** RECORD CONTAINS 200 CHARACTERS
13200** VALUE OF IT IS "DAIN"
13300** BLOCK CONTAINS 5 RECORDS.
13400**
13500**
13600**
13700**
13800**
13900**
14000**
14100**
14200**
14300**
14400**
14500**
14600**
14700**
14800** 01 PATIENT-RECORD-I.
14900** 02 FILLER PIC X(3).
15000** 02 A003-T PIC X(3).
15100** 02 A004-T PIC X(4).
15200** 02 A013-T PIC X(9).
15300** 02 A002Y-I PIC X(2).
15400** 02 A002M-I PIC X(2).
15500** 02 A002D-I PIC X(2).
15600** 02 A094-T PIC X(1).
15700** 02 A069-T PIC X(1).
15800** 02 A071-T PIC X(1).
15900** 02 A068-T PIC X(1).
16000** 02 A067-T PIC X(1).
16100** 02 A079-T PIC X(1).
16200** 02 A074-T PIC X(1).
16300** 02 A072-T PIC X(1).
16400** 02 A129-T PIC X(1).

```

```

*****
DEFINITION OF INPUT PATIENT RECORD
*****

```

```

PATIENT-RECORD-I.
FILLER PIC X(3).
A003-T PIC X(3).
A004-T PIC X(4).
A013-T PIC X(9).
A002Y-I PIC X(2).
A002M-I PIC X(2).
A002D-I PIC X(2).
A094-T PIC X(1).
A069-T PIC X(1).
A071-T PIC X(1).
A068-T PIC X(1).
A067-T PIC X(1).
A079-T PIC X(1).
A074-T PIC X(1).
A072-T PIC X(1).
A129-T PIC X(1).

```


24800*	02	A072-T	PIC X(1).
24900*	02	A075-T	PIC X(2).
25000*	02	A076-T	PIC X(1).
25100*	02	A077-T	PIC X(1).
25200*	02	A079-T	PIC X(2).
25300*	02	A078-T	PIC X(1).
25400*	02	A0A1-T	PIC X(1).
25500*	02	A0A2-T	PIC X(1).
25600*	02	A0A7-T	PIC X(1).
25700*	02	A0135-T	PIC X(1).
25800*	02	A101-T	PIC X(2).
25900*	02	A0A6-T	PIC X(6).
26000*	02	A0A1-T	PIC X(1).
26100*	02	A112-T	PIC X(1).

26200*
26300*
26400*
26500*
26600*
26700*
26800*
26900*
27000*
27100*
27200*
27300*
27400*
27500*
27600*
27700*
27800*
27900*
28000*
28100*
28200*
28300*
28400*
28500*
28600*
28700*
28800*
28900*
29000*
29100*
29200*
29300*
29400*
29500*
29600*
29700*
29800*
29900*
30000*
30100*
30200*
30300*
30400*
30500*
30600*
30700*
30800*
30900*
31000*
31100*
31200*
31300*
31400*
31500*
31600*
31700*
31800*
31900*
32000*
32100*
32200*
32300*

PROCEDURE DIVISION (FILE MANIPULATION)

PROCEDURE DIVISION.
OPEN-UP SECTION.
BRJ.
OPEN INPUT TAPE-IN.
OPEN OUTPUT TAPE-OUT.
FILE MANIPULATION.
MOVE SPACES TO PATIENT-RECORD-D.
READ TAPE-IN AT END GO TO EQUJ.
MOVE A003-I TO A003-D.
MOVE A004-I TO A004-D.
MOVE A013-I TO A013-D.
MOVE A009-I TO A009-D.
MOVE "3" TO A037-D.
IF A037-I EQUALS "2" MOVE "1" TO A037-D.
IF A037-I EQUALS "1" MOVE "2" TO A037-D.
IF A037-I EQUALS "5" MOVE "4" TO A037-D.
IF A037-I EQUALS "6" MOVE "5" TO A037-D.
IF A037-I EQUALS "4" MOVE "6" TO A037-D.
MOVE A010-I TO A010-D.
MOVE A018-I TO A018-D.
MOVE A002Y-I TO A002Y-D.
MOVE A002M-I TO A002M-D.
MOVE A002D-I TO A002-D.
MOVE A026-I TO A026-D.
MOVE A067-I TO A067-D.
MOVE A074-I TO A074-D.
MOVE A129-I TO A129-D.
MOVE A069-I TO A069-D.
MOVE A068-I TO A068-D.
MOVE A071-I TO A071-D.
MOVE A072-I TO A072-D.
MOVE A079-I TO A079-D.
MOVE A087-I TO A087-D.
MOVE A086-Y-I TO A086Y-D.
MOVE A086M-I TO A086M-D.
MOVE A086D-I TO A086D-D.
THID HUSHHFGGJ
WRITE PATIENT-RECORD-D INVALID KEY GO TO EQUJ.
ENJ.
CLOSE TAPE-IN.
CLOSE TAPE-OUT WITH LOCK.
STOP RUN.

```

100*$LIST
200*IDENTIFICATION DIVISION.
300*PROGRAM=ID, GEORGIA.
400*AUTHOR. F TASI MJ.
500*INSTALLATION. RICH COMPUTER CENTER.
600*DATE=WRITTEN. SEPT 25, 1975.
700*DATE=COMPILED.
800*ENVIRONMENT DIVISION.
900*CONFIGURATION SECTION.
910*SOURCE=COMPUTER. P-5700 WITH DEBUGGING MODE.
920*OBJECT=COMPUTER. P-5700.
930*INPUT-OUTPUT SECTION.
1000*FILE=CONTROL
1100*   SELECT TAPE=OUT ASSIGN TO DISK ACCESS MODE IS SEQUENTIAL.
1200*   SELECT TAPE=IN ASSIGN TO 1 * 100 DISK
1210*   ACCESS MODE IS SEQUENTIAL.
1300*I-O=CONTROL.
1400*DATA DIVISION.
1500*FILE SECTION.
1600*FD TAPE=IN
1700*   RECORD CONTAINS 200 CHARACTERS
1710*   VALUE OF IC IS "DAIN"
1750*   BLOCK CONTAINS 5 RECORDS.
1800* 01 PATIENT=RECORD=1.
1850* 02 FILLER PTC X(4).
1855* 02 A013=I PTC X(10).
1860* 02 A002=I PTC X(6).
1865* 02 FILLER PTC X(80).
1870* 02 A003=I PTC X(2).
1875* 02 A004=I PTC X(2).
1880* 02 A094=I PTC X(1).
1885* 02 A095=I PTC X(1).
1890* 02 A096=I PTC X(1).
1895* 02 A008=I PTC X(6).
1900* 02 A037=I PTC X(1).
1905* 02 A018=I PTC X(1).
1910* 02 A017=I PTC X(2).
1915* 02 A097=I PTC X(1).
1920* 02 A098=I PTC X(1).
1925* 02 A031=I PTC X(1).
1930* 02 FILLER PTC X(4).
1935* 02 A029=I PTC X(4).
1940* 02 A100=I PTC X(1).
1945* 02 A101=I PTC X(1).
1950* 02 A107=I PTC X(1).
1955* 02 FILLER PTC X(3).
1960* 02 A009=I PTC X(1).
1965* 02 FILLER PTC X(3).
1970* 02 A026=I PTC X(1).
1975* 02 A0135=I PTC X(1).
1980* 02 A068=I PTC X(1).
1985* 02 A071=I PTC X(1).
1990* 02 A069=I PTC X(1).
1995* 02 FILLER PTC X(1).
2000* 02 A079=I PTC X(1).
2005* 02 A072=I PTC X(1).
2010* 02 A078=I PTC X(1).
2015* 02 A061=I PTC X(1).
2020* 02 FILLER PTC X(1).
2025* 02 A086=I PTC X(4).
2030* 02 A081=I PTC X(1).
2035* 02 FILLER PTC X(45).
90035* FD TAPE=OUT
90085*   SAVE=FACTOR IS 300
90095*   VALUE OF IC IS "DAOT"
91335* RECORD CONTAINS 104 CHARACTERS.
92335* 01 PATIENT=RECORD=0.
93335* 02 A003=I PTC X(3).
94335* 02 A004=I PTC X(5).
95335* 02 A013=I PTC X(9).
96335* 02 A096=I PTC X(1).
97335* 02 A093=I PTC X(6).
98335* 02 A009=I PTC X(1).
99335* 02 A037=I PTC X(1).
1000335* 02 A010=I PTC X(1).
1010335* 02 A018=I PTC X(1).
1020335* 02 A008=I PTC X(6).
1030335* 02 A016=I PTC X(3).
1040335* 02 A017=I PTC X(2).
1050335* 02 A095=I PTC X(1).
1060335* 02 A116=I PTC X(1).

```

```
10735 * A119= PIC X(2).
10835 * A002= PIC X(6).
10935 * A004= PIC X(1).
11035 * A007= PIC X(2).
11135 * A008= PIC X(2).
11235 * A029= PIC X(6).
11335 * A100= PIC X(1).
11435 * A032= PIC X(2).
11535 * A031= PIC X(2).
11635 * A105= PIC X(1).
11735 * A107= PIC X(2).
11835 * A049= PIC X(1).
11935 * A026= PIC X(1).
12035 * A047= PIC X(1).
12135 * A074= PIC X(1).
12235 * A073= PIC X(1).
12335 * A129= PIC X(1).
12435 * A128= PIC X(2).
12535 * A069= PIC X(2).
12635 * A070= PIC X(2).
12735 * A048= PIC X(1).
12835 * A071= PIC X(1).
12935 * A072= PIC X(1).
13035 * A075= PIC X(2).
13135 * A076= PIC X(1).
13235 * A077= PIC X(1).
13335 * A079= PIC X(2).
13435 * A078= PIC X(1).
13535 * A061= PIC X(1).
13635 * A062= PIC X(1).
13735 * A087= PIC X(1).
13835 * A0135= PIC X(1).
13935 * A101= PIC X(2).
14035 * A086= PIC X(6).
14135 * A081= PIC X(1).
14235 * A112= PIC X(1).
14335 * PROCEDURE DIVISION.
14345 * OPEN=UP SECTION.
14355 * BUJ.
14385 * OPEN INPUT TAPE=IN.
14435 * OPEN OUTPUT TAPE=OUT.
14535 * FILE MANIPULATION.
14635 * MOVE SPACES TO PATIENT=RECORD=0.
14735 * READ TAPE=IN AT END GO TO ENDJ.
27535 * MOVE A003=I TO A003=0.
27635 * MOVE A004=I TO A004=0.
27735 * MOVE A013=I TO A013=0.
27740 * MOVE A094=I TO A099=0.
27741 * MOVE A095=I TO A095=0.
27742 * MOVE A096=I TO A096=0.
27743 * MOVE A097=I TO A097=0.
27744 * MOVE A098=I TO A098=0.
27745 * MOVE A029=I TO A029=0.
27746 * MOVE A100=I TO A100=0.
27747 * MOVE A101=I TO A101=0.
27748 * MOVE A107=I TO A107=0.
27749 * MOVE A0135=I TO A0135=0.
27835 * MOVE A009=I TO A009=0.
27935 * IF A037=I EQUALS "W" MOVE 1 TO A037=0.
28035 * IF A037=I EQUALS "B" MOVE 2 TO A037=0.
28135 * MOVE 6 TO A037=0.
28235 * IF A018=I EQUALS "Y" MOVE 1 TO A018=0.
28335 * MOVE 6 TO A018=0.
28435 * MOVE A008=0 TO A008=I.
28535 * MOVE A016=I TO A016=0.
28635 * MOVE A017=I TO A017=0.
28735 * MOVE A002=I TO A002=0.
28835 * MOVE A032=I TO A032=0.
28935 * MOVE A031=I TO A031=0.
29035 * IF A026=I EQUALS "Y" MOVE 5 TO A026=0.
29135 * IF A027=I EQUALS "Y" MOVE 2 TO A026=0.
29235 * IF A028=I EQUALS "Y" MOVE 4 TO A026=0.
29335 * IF A033=I EQUALS "Y" MOVE 3 TO A026=0.
29435 * IF A034=I EQUALS "Y" MOVE 6 TO A026=0.
29535 * IF A067=I EQUALS "Y" MOVE "Y" TO A067=0 ELSE
29635 * MOVE "N" TO A067=0.
29735 * IF A128=I EQUALS "Y" MOVE "Y2" TO A128=0 ELSE
29835 * MOVE "N2" TO A128=0.
30035 * IF A069=I EQUALS "Y" AND PAP=RESULTS EQUALS "3"
30135 * MOVE "Y0" TO A069=0 ELSE
30235 * IF A069=I EQUALS "Y" AND PAP=RESULTS EQUALS "2"
30335 * MOVE "Y1" TO A069=0 ELSE
30435 * MOVE "NO" TO A069=0.
```

8100**	*	A069 PAP SMEAR	2	*
8200**	*	A070 G.C.-CULTURE	2	*
8300**	*	A068 BREAKFAST	1	*
8400**	*	A071 PELVIC EXAM	1	*
8500**	*	A072 URINALYSIS	1	*
8600**	*	A075 SICKLE CELL ANEMIA	2	*
8700**	*	A076 STERILIZATION	1	*
8800**	*	A077 INFERTILITY	1	*
8900**	*	A079 PREGNANCY TEST	2	*
9000**	*	A078 OTHER	1	*
9100**	*	A052-62		*
9200**	*	METHOD AFTER VISIT	1	*
9300**	*	A062-66		*
9400**	*	REASON FOR STOPPING METHOD	1	*
9500**	*	A087-92		*
9600**	*	REFERRED ELSEWHERE	1	*
9700**	*	A0135 PATIENT SEEN BY	1	*
9800**	*	A101 MAIN SOURCE OF REFERRAL	2	*
9900**	*	A086 DATE OF NEXT APPOINTMENT	6	*
10000**	*	A081-85		*
10100**	*	A081-85		*
10200**	*	PURPOSE OF NEXT APPOINTMENT	1	*
10300**	*	A112 REASON FOR DISCHARGE	1	*
10400**	*			*
10500**	*			*
10600**	*	FOR MORE DETAILED INFORMATION REFER TO THE REPORT		*
10700**	*			*
10800**	*	*****		*
10900**	*			*
11000**	*			*
11100**	*			*
11200**	*	IDENTIFICATION DIVISION.		*
11300**	*	PROGRAM-ID. SOUTH CAROLINA.		*
11400**	*	AUTHOR. F. TASIIMI.		*
11500**	*	INSTALLATION. RICE COMPUTER CENTER.		*
11600**	*	DATE-WRITTEN. SEPT 25, 1975.		*
11700**	*	DATE-COMPILED.		*
11800**	*	ENVIRONMENT DIVISION.		*
11900**	*	CONFIGURATION SECTION.		*
12000**	*	SOURCE-COMPUTER. F-5700 WITH DEBUGGING MODE.		*
12100**	*	OBJECT-COMPUTER. F-5700.		*
12200**	*	INPUT-OUTPUT SECTION.		*
12300**	*	FILE-CONTROL.		*
12400**	*	SELECT TAPE-OUT ASSIGN TO TAPE.		*
12500**	*	SELECT TAPE-IN ASSIGN TO TAPE.		*
12700**	*	I-O-CONTROL.		*
12800**	*	DATA DIVISION.		*
12900**	*	FILE SECTION.		*
13000**	*	FD TAPE-IN		*
13100**	*	RECORD CONTAINS 2128 CHARACTERS		*
13200**	*	LABEL RECORDS ARE OMITTED		*
13250**	*	RECORDING MODE IS NON-STANDARD		*
13300**	*	BLOCK CONTAINS 1 RECORDS.		*
13400**	*			*
13500**	*			*
13600**	*			*
13700**	*			*
13800**	*			*
13900**	*			*
14000**	*	*****		*
14100**	*			*
14200**	*	DEFINITION OF INPUT PATIENT RECORD		*
14300**	*			*
14400**	*	*****		*
14500**	*			*
14600**	*			*
14700**	*			*
14800**	*	PATIENT-RECORD-I.		*
14850**	*	02 D OCCURS 25 TIMES.		*
14900**	*	03 FILLER PIC X(2).		*
15000**	*	03 A003-I PIC X(2).		*
15100**	*	03 A013-I PIC X(7).		*
15200**	*	03 A002-I PIC X(6).		*
15300**	*	03 A004-I PIC X(2).		*
15400**	*	03 FILLER PIC X(1).		*
15500**	*	03 A004-I PIC X(1).		*
15600**	*	03 FILLER PIC X(2).		*
15700**	*	03 FILLER PIC X(2).		*
15800**	*	03 A071-I PIC X(1).		*
15900**	*	03 A068-I PIC X(1).		*
16000**	*	03 A067-I PIC X(1).		*
16100**	*	03 FILLER PIC X(3).		*
16200**	*	03 A069-I PIC X(1).		*

16300*	03	A073-I	PIC X(1).
16400*	03	A072-Y	PTC X(1).
16500*	03	A070-J	PIC X(1).
16600*	03	FILLFR	PIC X(1).
16700*	03	A079-I	PIC X(1).
16800*	03	FILLFR	PIC X(1).
16900*	03	A075-I	PIC X(1).
17000*	03	FILLFR	PIC X(7).
17100*	03	A008-I	PIC X(4).
17200*	03	A009-I	PIC X(1).
17300*	03	A037-I	PIC X(1).
17400*	03	A010-I	PIC X(1).
17500*	03	FILLFR	PIC X(1).
17700*	03	A01A-I	PIC X(1).
17800*	03	A116-I	PIC X(1).
17900*	03	A017-I	PIC X(2).
18000*	03	A101-I	PIC X(1).
18100*	03	FILLFR	PIC X(1).
18200*	03	A032-I	PIC X(1).
18300*	03	A031-I	PIC X(1).
18400*	03	A107-I	PIC X(1).
18500*	03	FILLFR	PIC X(2).
18600*	03	A049-I	PIC X(1).
18700*	03	A069-1-I	PIC X(1).
18800*	03	A070-1-I	PIC X(1).
18900*	03	FILLFR	PIC X(1).
19000*	03	A079-1-I	PIC X(1).
19100*	03	FILLFR	PIC X(1).
19200*	03	A075-1-Y	PTC X(1).
19300*	03	A077-I	PIC X(1).
19400*	03	FILLFR	PIC X(1).
19500*	03	A087-I-1	PTC X(1).
19600*	03	A087-I-ABD	PTC X(1).
19700*	03	A087-I-STEE	PTC X(1).
19800*	03	A087-I-OTHE	PTC X(1).
20000*	03	A087-I-REFS	PTC X(1).
20100*	03	A112-I	PTC X(1).
20200*	03	FILLFR	PTC X(5).
20300*	02	FILLFR	PIC X(3).

```

*****
*****
DEFINITION OF OUTPUT-PATIENT RECORD
*****
*****

```

39700*	FD	TAPE-OUT	
39800*		SAVE-FACTOR IS 300	
39900*		LABEL RECORDS ARE STANDARD	
40000*		VALUE OF ID IS "DMASTER"	
40100*		RECORDING MODE IS STANDARD.	
40200*		RECORD CONTAINS 80 CHARACTERS	
40300*		BLOCK CONTAINS 30 RECORDS.	
40400*	01	CLINIC-DATE.	
40500*	02	STATE-NAME	PTC X(3).
40600*	02	A003-N	PTC 9(3).
40700*	02	A004-N	PIC 9(5).
40800*	02	FILLFR	PIC X(69).
40900*	01	PATIENT-DATE.	
41000*	02	A013-N	PIC 9(9).
41100*	02	A09A-N	PIC X(1).
41200*	02	A003-F	PIC 9(6).
41300*	02	A000-N	PIC X(1).
41400*	02	A037-N	PIC 9(1).
41500*	02	A010-N	PIC X(1).
41600*	02	A01A-N	PIC 9(1).
41700*	02	A008-N	PIC 9(6).
41800*	02	A01A-0	PIC 9(3).
41900*	02	A017-0	PIC 9(2).
42000*	02	A095-F	PIC 9(1).
42100*	02	A116-F	PIC 9(1).
42200*	02	A119-F	PIC 9(2).
42300*	02	FILLFR	PIC X(45).
42400*	01	VISIT-DATE.	

```

42500*       02 A002=0           PIC 9(6),
42600*       02 A09A=0         PIC 9(2),
42700*       02 FILLER        PIC X(72),
42800* 01     PRFG-HISTORFY,
42900*       02 A097=0         PIC 9(2),
43000*       02 A098=0         PIC 9(2),
43100*       02 A020=0         PIC 9(6),
43200*       02 A100=C         PIC 9(1),
43300*       02 A032=C         PIC 9(2),
43400*       02 A031=C         PIC 9(2),
43500*       02 FILLER        PIC X(65),
43600* 01     CONTRACEPTIVE-HISTORY,
43700*       02 A105=C         PIC X(1),
43800*       02 A107=C         PIC 9(2),
43900*       02 A049=C         PIC 9(1),
44000*       02 FILLER        PIC X(76),
44100* 01     SFRVICE-PROVIDED,
44200*       02 A026=C         PIC 9(1),
44300*       02 A067=0         PIC X(1),
44400*       02 A074=C         PIC X(1),
44500*       02 A073=C         PIC X(1),
44600*       02 A129=C         PIC X(1),
44700*       02 A128=C         PIC X(2),
44800*       02 A049=C         PIC X(2),
44900*       02 A070=C         PIC X(2),
45000*       02 A068=C         PIC X(1),
45100*       02 A071=C         PIC X(1),
45200*       02 A072=C         PIC X(1),
45300*       02 A075=C         PIC X(2),
45400*       02 A076=C         PIC X(2),
45500*       02 A077=C         PIC X(1),
45600*       02 A079=C         PIC X(2),
45700*       02 A078=C         PIC X(1),
45800*       02 A061=C         PIC 9(1),
45900*       02 A062=C         PIC 9(1),
46000*       02 A087=C         PIC 9(1),
46100*       02 A0135=C        PIC 9(1),
46200*       02 A101=C         PIC 9(2),
46300*       02 A096=C         PIC 9(6),
46400*       02 A081=C         PIC 9(1),
46500*       02 A112=C         PIC 9(1),
46600*       02 FILLER        PIC X(44),
46610*WORKING-STORAGE SECTION,
46615*  1  PIC 9(11),
46700** @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@
46800** @
46900** @  PROCEDURE DIVISION (FILE MANIPULATION)
47000** @
47100** @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@
47200** @
47300** @
47400** @
47500** @
47600*PROCEDURE DIVISION,
47700*OPEN=UP SECTION,
47800*  BNJ,
47900*  OPEN INPUT TAPE=IN,
48000*  OPEN OUTPUT TAPE=OUT,
48010*  DO=LOOP,
48020*  READ TAPE=IN AT END GO TO ENDJ,
48030*  PERFORM FILE-MANIPULATION VARYING I FROM 1 BY 1
48040*  UNTIL I IS GREATER THAN 25,
48050*  GO TO DO=LOOP,
48100*FILE-MANIPULATION,
48200*  MOVE ALL "N" TO CLINIC=DATA,
48300*  MOVE ALL "N" TO PATIENT=DATA,
48400*  MOVE ALL "N" TO VISIT=DATA,
48500*  MOVE ALL "N" TO PRFG=HISTORY,
48600*  MOVE ALL "N" TO CONTRACEPTIVE-HISTORY,
48700*  MOVE ALL "N" TO SFRVICE=PROVIDED,
49000*  MOVE "SC " TO STATE=NAME,
49100*  MOVE A003-I(I) TO A003=0,
49200*  MOVE A004-I(I) TO A004=0,
49300*  WRITE CLINIC=DATA,
49400*  MOVE ALL "N" TO PATIENT=DATA,
49700*  MOVE A013-I(I) TO A013=0,
49800*  IF A009-I(I) EQUALS "1" MOVE "M" TO A009=0 ELSE
49900*  IF A009-I(I) EQUALS "2" MOVE "F" TO A009=0,
50000*  IF A037-I(I) EQUALS "4" OR " " MOVE 6 TO A037=0 ELSE
50100*  MOVE A037-I(I) TO A037=0,
50110*  IF A010-I(I) EQUALS "1" MOVE "Y" TO A010=0 ELSE
50120*  MOVE "N" TO A010=0,
50200*  IF A018-I(I) EQUALS "2" MOVE 1 TO A018=0 ELSE

```

00300*
00310*
00315*
00320*
00325*
00330*
00335*
00340*
00345*
00350*
00355*
00360*
00365*
00370*
00375*
00380*
00385*
00390*
00395*
00400*
00405*
00410*
00415*
00420*
00425*
00430*
00435*
00440*
00445*
00450*
00455*
00460*
00465*
00470*
00475*
00480*
00485*
00490*
00495*
00500*
00505*
00510*
00515*
00520*
00525*
00530*
00535*
00540*
00545*
00550*
00555*
00560*
00565*
00570*
00575*
00580*
00585*
00590*
00595*
00600*
00605*
00610*
00615*
00620*
00625*
00630*
00635*
00640*
00645*
00650*
00655*
00660*
00665*
00670*
00675*
00680*
00685*
00690*
00695*
00700*
00705*
00710*
00715*
00720*
00725*
00730*
00735*
00740*
00745*
00750*
00755*
00760*
00765*
00770*
00775*
00780*
00785*
00790*
00795*
00800*
00805*
00810*
00815*
00820*
00825*
00830*
00835*
00840*
00845*
00850*
00855*
00860*
00865*
00870*
00875*
00880*
00885*
00890*
00895*
00900*
00905*
00910*
00915*
00920*
00925*
00930*
00935*
00940*
00945*
00950*
00955*
00960*
00965*
00970*
00975*
00980*
00985*
00990*
00995*
01000*

```
TF A018-I(I) EQUALS "1" MOVE 2 TO A018-D ELSE  
IF A018-I(I) EQUALS "3" MOVE 5 TO A018-D ELSE  
IF A018-I(I) EQUALS "4" MOVE 3 TO A018-D ELSE  
IF A018-I(I) EQUALS "5" MOVE 4 TO A018-D.  
MOVE A008-D TO A008-I(I)  
MOVE A017-I(I) TO A017-D.  
MOVE A116-I(I) TO A116-D.  
WRITE PATIENT-DATA.  
MOVE ALL "N" TO VISIT-DATA.  
MOVE A002-I(I) TO A002-D.  
TF A094-I(I) EQUALS "0" MOVE 01 TO A094-D ELSE  
TF A094-I(I) EQUALS "1" MOVE 02 TO A094-D ELSE  
TF A094-I(I) EQUALS "2" MOVE 02 TO A094-D ELSE  
TF A094-I(I) EQUALS "3" MOVE 06 TO A094-D ELSE  
TF A094-I(I) EQUALS "4" MOVE 08 TO A094-D ELSE  
TF A094-I(I) EQUALS "5" MOVE 00 TO A094-D ELSE  
MOVE 09 TO A094-D.  
WRITE VISIT-DATA.  
MOVE ALL "N" TO PREG-HISTORY.  
MOVE A032-I(I) TO A032-D.  
MOVE A031-I(I) TO A031-D.  
WRITE PREG-HISTORY.  
MOVE ALL "N" TO CONTRACEPTIVE-HISTORY.  
TF A107-I(I) EQUALS "0" MOVE 01 TO A107-D ELSE  
TF A107-I(I) EQUALS "1" MOVE 02 TO A107-D ELSE  
TF A107-I(I) EQUALS "2" MOVE 04 TO A107-D ELSE  
TF A107-I(I) EQUALS "3" MOVE 08 TO A107-D ELSE  
TF A107-I(I) EQUALS "4" MOVE 06 TO A107-D ELSE  
TF A107-I(I) EQUALS "5" MOVE 03 TO A107-D ELSE  
TF A107-I(I) EQUALS "6" MOVE 05 TO A107-D ELSE  
TF A107-I(I) EQUALS "7" MOVE 09 TO A107-D ELSE  
MOVE 07 TO A107-D.  
TF A049-I(I) EQUALS "1" MOVE 2 TO A049-D ELSE  
TF A049-I(I) EQUALS "2" MOVE 1 TO A049-D ELSE  
IF A049-I(I) EQUALS "3" MOVE 3 TO A049-D ELSE  
MOVE 4 TO A049-D.  
WRITE CONTRACEPTIVE-HISTORY.  
MOVE ALL "N" TO SERVICE-PROVIDED.  
IF A069-I(I) EQUALS "1" MOVE "Y" TO A069-D ELSE  
IF A067-I(I) EQUALS "1" MOVE "Y" TO A067-D ELSE  
MOVE "N" TO A067-D.  
IF A073-I(I) EQUALS "1" MOVE "Y" TO A073-D ELSE  
MOVE "N" TO A073-D.  
IF A069-I(I) EQUALS "1" AND A069-1-I(I) EQUALS "1" MOVE  
"Y1" TO A069-D ELSE  
IF A069-I(I) EQUALS "1" AND A069-1-I(I) EQUALS "0" MOVE  
"Y0" TO A069-D ELSE  
MOVE "N" TO A069-D.  
IF A070-I(I) EQUALS "1" AND A070-1-I(I) EQUALS "1" MOVE  
"Y1" TO A070-D ELSE  
IF A070-I(I) EQUALS "1" AND A070-1-I(I) EQUALS "0" MOVE  
"Y0" TO A070-D ELSE  
MOVE "N" TO A070-D.  
IF A068-I(I) EQUALS "1" MOVE "Y" TO A068-D ELSE  
MOVE "N" TO A068-D.  
IF A071-I(I) EQUALS "1" MOVE "Y" TO A068-D ELSE  
MOVE "N" TO A071-D.  
IF A072-I(I) EQUALS "1" MOVE "Y" TO A072-D ELSE  
MOVE "N" TO A072-D.  
IF A075-I(I) EQUALS "1" AND A075-1-I(I) EQUALS "1" MOVE  
"Y1" TO A075-D ELSE  
IF A075-I(I) EQUALS "1" AND A075-1-I(I) EQUALS "0" MOVE  
"Y0" TO A075-D ELSE  
MOVE "N" TO A075-D.  
IF A077-I(I) EQUALS "1" MOVE "Y" TO A077-D ELSE  
MOVE "N" TO A077-D.  
IF A079-I(I) EQUALS "1" AND A079-1-I(I) EQUALS "1" MOVE  
"Y1" TO A079-D ELSE  
IF A079-I(I) EQUALS "1" AND A079-1-I(I) EQUALS "0" MOVE  
"Y0" TO A079-D ELSE  
MOVE "N" TO A079-D.  
IF A087-I-ARRR(I) EQUALS "1" MOVE 4 TO A087-D ELSE  
IF A087-I-STER(I) EQUALS "1" MOVE 3 TO A087-D ELSE  
IF A087-I-THE(I) EQUALS "1" MOVE 6 TO A087-D ELSE  
IF A087-I-1(I) EQUALS "1" MOVE 5 TO A087-D ELSE  
IF A087-I-EFFS(I) EQUALS "1" MOVE 1 TO A087-D.  
IF A101-I(I) EQUALS "0" MOVE 01 TO A101-D ELSE  
IF A101-I(I) EQUALS "1" MOVE 06 TO A101-D ELSE  
TF A101-I(I) EQUALS "2" MOVE 00 TO A101-D ELSE  
TF A101-I(I) EQUALS "3" MOVE 03 TO A101-D ELSE  
TF A101-I(I) EQUALS "4" MOVE 09 TO A101-D ELSE  
TF A101-I(I) EQUALS "5" MOVE 04 TO A101-D ELSE  
TF A101-I(I) EQUALS "6" MOVE 08 TO A101-D ELSE  
TF A101-I(I) EQUALS "7" MOVE 09 TO A101-D ELSE  
TF A101-I(I) EQUALS "8" MOVE 09 TO A101-D ELSE  
MOVE 09 TO A101-D.
```

```

53090*      TF A112-T(I) EQUALS "0" MOVE 4 TO A112=0 ELSE
53100*      TF A112-T(I) EQUALS "1" MOVE 5 TO A112=0 ELSE
53110*      TF A112-T(I) EQUALS "2" MOVE 6 TO A112=0 ELSE
53120*      TF A112-T(I) EQUALS "3" MOVE 7 TO A112=0 ELSE
53130*      TF A112-T(I) EQUALS "4" MOVE 8 TO A112=0 ELSE
53140*      TF A112-T(I) EQUALS "8" MOVE 2 TO A112=0 ELSE
53150*      MOVE 8 TO A112=0.
53500*      WRITE SFFVICE-PROVIDED.
53600*      MOVE ALL "N" TO CINTC-DATA.
53800* ENJ.
53900*      CLOSE TAPE-IN.
54000*      CLOSE TAPE-OUT.
54100*      STOP RUN.
54200*      CLOSE TAPE-OUT WITH LOCK.
54300*      STOP RUN.

```

100 *LIST

200 **
300 **
400 **
500 **
600 **
700 **
800 **
900 **
1000 **
1100 **
1200 **
1300 **
1400 **
1500 **
1600 **
1700 **
1800 **
1900 **
2000 **
2100 **
2200 **
2300 **
2400 **
2500 **
2600 **
2700 **
2800 **
2900 **
3000 **
3100 **
3200 **
3300 **
3400 **
3500 **
3600 **
3700 **
3800 **
3900 **
4000 **
4100 **
4200 **
4300 **
4400 **
4500 **
4600 **
4700 **
4800 **
4900 **
5000 **
5100 **
5200 **
5300 **
5400 **
5500 **
5600 **
5700 **
5800 **
5900 **
6000 **
6100 **
6200 **
6300 **
6400 **
6500 **
6600 **
6700 **
6800 **
6900 **
7000 **
7100 **
7200 **
7300 **
7400 **
7500 **
7600 **
7700 **
7800 **
7900 **
8000 **
8100 **

TENNESSEE
DATA
CONVERSION
PROGRAM

DATA CONVERSION PROGRAM

THIS PROGRAM CONVERTS THE REGIONAL DATA INTO A STANDARD FORM AS DESCRIBED BELOW. THERE IS A TOTAL OF 6 PROGRAMS FOR THE CONVERSION OF DATA FROM 6 DIFFERENT STATES.

THE FOLLOWING IS THE STANDARD DATA BASE BEING PROPOSED TO REPRESENT THE MAXIMAL SET OF PATIENT-LEVEL DATA ITEMS.

Table with 2 columns: DATA ELEMENT and NO. OF CHAR. listing various medical data points like COUNTY NUMBER, CLINIC NUMBER, etc.

```

8200** * A069 PAP SMFAR 2
8300** * A070 G.C.=CLTURE 2
8400** * A068 BRFAST 1
8500** * A071 PELVIC EXAM 1
8600** * A072 URYNALYSIS 1
8700** * A075 SICKLE CELL ANEMIA 2
8800** * A076 STERILIZATION 1
8900** * A077 INFERTILITY 1
9000** * A079 PREGNANCY TEST 2
9100** * A078 OTHER 1
9200** * A052-62
9300** * METHOD AFTER VISIT 1
9400** * A062-66
9500** * REASON FOR STOPPING METHOD 1
9600** * A087-92
9700** * REFERRED ELSEWHERE 1
9800** * A0135 PATIENT SPEN BY 1
9900** * A101 MAIN SOURCE OF REFFRAL 2
10000** * A086 DATE OF NEXT APPOINTMENT 6
10100** * A081-85
10200** * A081-85
10300** * PURPOSE OF NEXT APPOINTMENT 1
10400** * A112 REASON FOR DISCHARGE 1
10500**
10600** *
10700** * FOR MORE DETAILED INFORMATION REFER TO THE REPORT
10800** *
10900** * *****
11000**
11100**
11200**
11300** IDENTIFICATION DIVISION.
11400** PROGRAM-ID. TENNESSEE.
11500** AUTHOR. F TASLIMI.
11600** INSTALLATION. RICH COMPUTER CENTER.
11700** DATE-WRITTEN. SEPT 25, 1975.
11800** DATE-COMPILED.
11900** ENVIRONMENT DIVISION.
12000** CONFIGURATION SECTION.
12100** SOURCE-COMPUTER. P-5700 WITH DEBUGGING MODE.
12200** OBJECT-COMPUTER. P-5700.
12300** INPUT-OUTPUT SECTION.
12400** FILE-CONTROL.
12500** SELECT TAPE-OUT ASSIGN TO TAPE.
12600** SELECT TAPE-IN ASSIGN TO TAPE.
12700** I-O-CONTROL.
12800** DATA DIVISION.
12900** FILE SECTION.
13000** FD TAPE-IN
13100** RECORD CONTAINS 1504 CHARACTERS
13200** LABEL RECCRDS ARE OMITTED.
13300** RECORDING MODE IS NON-STANDARD
13400** BLOCK CONTAINS 1 RECORDS.
13500**
13600**
13700**
13800**
13900**
14000**
14100**
14200**
14300**
14400**
14500**
14600**
14700**
14800**
14900**
15000**
15100** 01 PATIENT-RECORD-I.
15150** 02 D OCCURS 10 TIMES.
15200** 03 A003-I PIC X(2).
15300** 03 A004-I PIC X(2).
15400** 03 A013-I PIC X(10).
15500** 03 FILLFR PIC X(66).
15600** 03 A095-I PIC X(1).
15700** 03 A096-I PIC X(1).
15800** 03 A009-I PIC X(1).
15900** 03 FILLFR PIC X(1).
16000** 03 A008-I PIC X(6).
16100** 03 A037-I PIC X(1).
16200** 03 A097-I PIC X(1).
16300** 03 FILLFR PIC X(1).

```

```

*****
DEFINITION OF INPUT PATIENT RECORD
*****

```

```

PATIENT-RECORD-I.
02 D OCCURS 10 TIMES.
03 A003-I PIC X(2).
03 A004-I PIC X(2).
03 A013-I PIC X(10).
03 FILLFR PIC X(66).
03 A095-I PIC X(1).
03 A096-I PIC X(1).
03 A009-I PIC X(1).
03 FILLFR PIC X(1).
03 A008-I PIC X(6).
03 A037-I PIC X(1).
03 A097-I PIC X(1).
03 FILLFR PIC X(1).

```


16400*	02	A01R-I	PIC X(1).
16500*	00	FILLER	PIC X(15).
16600*	00	A086-I	PIC X(6).
16700*	00	FILLER	PIC X(6).
16800*	00	FILLER	PIC X(3).
16900*	00	A098-I	PIC X(1).
17000*	00	FILLER	PIC X(1).
17100*	00	A017-I	PIC X(2).
17200*	00	A101-I	PIC X(1).
17300*	00	FILLER	PIC X(12).
17400*	00	A069-I	PIC X(1).
17500*	00	A068-I	PIC X(1).
17600*	00	A071-I	PIC X(1).
17700*	00	A076-I	PIC X(6).
17710*	02	FILLER	PIC X(4).

 DEFINITION OF OUTPUT-PATIENT RECORD

19400* FD TAPE=OUT
 19500* SAVE=FACTOR IS 300
 19600* LABEL RECOPIES ARE STANDARD
 19700* VALUE OF IC IS "DMASTER"
 19800* RECORDING MODE IS STANDARD
 19900* RECORD CONTAINS 80 CHARACTERS
 20000* BLOCK CONTAINS 30 RECORDS.

20100* 01 CLINIC=DATA.
 20200* 02 STATE=NAME PIC X(3).
 20300* 02 A003=D PIC 9(3).
 20400* 02 A004=D PIC 9(5).
 20500* 02 FILLER PIC X(69).
 20600* 01 PATIENT=DATA.
 20700* 02 A013=D PIC 9(9).
 20800* 02 A096=D PIC X(1).
 20900* 02 A003=C PIC 9(6).
 21000* 02 A000=D PIC X(1).
 21100* 02 A037=D PIC 9(1).
 21200* 02 A010=D PIC X(1).
 21300* 02 A01R=D PIC 9(1).
 21400* 02 A00R=D PIC 9(6).
 21500* 02 A016=D PIC 9(3).
 21600* 02 A017=D PIC 9(2).
 21700* 02 A095=C PIC 9(1).
 21800* 02 A116=C PIC 9(1).
 21900* 02 A119=C PIC 9(2).
 22000* 02 FILLER PIC X(45).
 22100* 01 VISIT=DATA.
 22200* 02 A002=D PIC 9(6).
 22300* 02 A094=D PIC 9(2).
 22400* 02 FILLER PIC X(72).
 22500* 01 PREG=HISTORY.
 22600* 02 A097=D PIC 9(2).
 22700* 02 A092=D PIC 9(2).
 22800* 02 A029=D PIC 9(6).
 22900* 02 A100=C PIC 9(1).
 23000* 02 A032=C PIC 9(2).
 23100* 02 A031=C PIC 9(2).
 23200* 02 FILLER PIC X(65).
 23300* 01 CONTRACEPTIVE=HISTORY.
 23400* 02 A105=C PIC X(1).
 23500* 02 A107=C PIC 9(2).
 23600* 02 A049=C PIC 9(1).
 23700* 02 FILLER PIC X(76).
 23800* 01 SERVICE=PROVIDED.
 23900* 02 A026=C PIC 9(1).
 24000* 02 A067=D PIC X(1).
 24100* 02 A074=C PIC X(1).
 24200* 02 A073=C PIC X(1).
 24300* 02 A129=C PIC X(1).
 24400* 02 A128=C PIC X(2).
 24500* 02 A069=C PIC X(2).

```

24600*      02 A070=C             PIC X(2).
24700*      02 A068=C             PIC X(1).
24800*      02 A071=C             PIC X(1).
24900*      02 A072=C             PIC X(1).
25000*      02 A075=C             PIC X(2).
25100*      02 A076=C             PIC X(2).
25200*      02 A077=C             PIC X(1).
25300*      02 A079=C             PIC X(2).
25400*      02 A078=C             PIC X(1).
25500*      02 A061=C             PIC 9(1).
25600*      02 A062=C             PIC 9(1).
25700*      02 A067=C             PIC 9(1).
25800*      02 A0135=C           PIC 9(1).
25900*      02 A101=C             PIC 9(2).
26000*      02 A086=C             PIC 9(6).
26100*      02 A081=C             PIC 9(1).
26200*      02 A112=C             PIC 9(1).
26300*      02 FILLER              PIC X(44).
26310*WORKING-STORAGE SECTION.
26315*77
26400*      @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@
26500*      @
26600*      @
26700*      @     PROCEDURE DIVISION (FILE MANIPULATION)
26800*      @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@
26900*      @
27000*      @
27100*      @
27200*      @
27300*PROCEDURE DIVISION.
27400*OPEN-UP SECTION.
27500*  BNJ.
27600*      OPEN INPUT TAPE=IN.
27700*      OPEN OUTPUT TAPE=OUT.
27710*  DO-LOOP.
27720*      READ TAPE=IN AT END GO TO END.
27730*      PERFORM FILE-MANIPULATION VARYING I FROM 1 BY 1
27740*      UNTIL I IS GREATER THAN 10.
27750*      GO TO DO-LOOP.
27800*FILE-MANIPULATION.
27900*      MOVE ALL "N" TO CLINIC=DATA.
28000*      MOVE ALL "N" TO PATIENT=DATA.
28100*      MOVE ALL "N" TO VISIT=DATA.
28200*      MOVE ALL "N" TO PREG=HISTORY.
28300*      MOVE ALL "N" TO CONTRACEPTIVE=HISTORY.
28400*      MOVE ALL "N" TO SERVICE=PROVIDED.
28700*      MOVE "TEN" TO STATE=NAME.
28800*      MOVE A003-I(I) TO A003=0.
28900*      MOVE A004-I(I) TO A004=0.
29000*      WRITE CLINIC=DATA.
29100*      MOVE ALL "N" TO PATIENT=DATA.
29200*      IF A096-I(I) EQUALS "1" OR "9" MOVE "N" TO A096=0 ELSE
29300*      MOVE "Y" TO A096=0.
29400*      MOVE A013-I(I) TO A013=0.
29500*      IF A009-I(I) EQUALS "1" MOVE "M" TO A009=0 ELSE
29600*      MOVE "F" TO A009=0.
29700*      IF A037-I(I) EQUALS "8" OR "9" MOVE 6 TO A037=0 ELSE
29800*      MOVE A037-I(I) TO A037=0.
29900*      IF A018-I(I) EQUALS "2" MOVE 1 TO A018=0 ELSE
30000*      IF A018-I(I) EQUALS "1" MOVE 2 TO A018=0 ELSE
30100*      MOVE A018-I(I) TO A018=0.
30200*      MOVE A008=0 TO A008-I(I).
30300*      IF A017-I(I) EQUALS "99" MOVE 03 TO A017=0 ELSE
30400*      MOVE A017-I(I) TO A017=0.
30500*      IF A095-I(I) EQUALS "5" OR "9" MOVE 4 TO A095=0 ELSE
30600*      MOVE A095-I(I) TO A095=0.
30700*      WRITE PATIENT=DATA.
30800*      MOVE ALL "N" TO VISIT=DATA.
30900*      WRITE VISIT=DATA.
31000*      MOVE ALL "N" TO PREG=HISTORY.
31100*      MOVE A097-I(I) TO A097=0.
31200*      MOVE A098-I(I) TO A098=0.
31300*      WRITE PREG=HISTORY.
31400*      MOVE ALL "N" TO CONTRACEPTIVE=HISTORY.
31500*      WRITE CONTRACEPTIVE=HISTORY.
31600*      MOVE ALL "N" TO SERVICE=PROVIDED.
31700*      IF A069-I(I) EQUALS "1" MOVE "Y0" TO A069=0 ELSE
31800*      MOVE "NO" TO A069=0.
31900*      IF A068-I(I) EQUALS "1" MOVE "Y" TO A068=0
32000*      ELSE MOVE "N" TO A068=0.
32100*      IF A071-I(I) EQUALS "1" MOVE "Y" TO A071=0 ELSE
32200*      MOVE "N" TO A071=0.
32300*      IF A076-I(I) EQUALS "1" MOVE "Y0" TO A076=0 ELSE

```

```

32400*      MOVE "NO" TO A076=0.
32500*      IF A101-I(I) EQUALS "7" MOVE 00 TO A101=0 ELSE
32600*      IF A101-I(I) EQUALS "0" MOVE 03 TO A101=0 ELSE
32700*      IF A101-I(I) EQUALS "1" OR "2" MOVE 04 TO A101=0 ELSE
32800*      IF A101-I(I) EQUALS "5" MOVE 05 TO A101=0 ELSE
32900*      IF A101-I(I) EQUALS "4" MOVE 07 TO A101=0 ELSE
33000*      IF A101-I(I) EQUALS "9" MOVE 10 TO A101=0 ELSE
33100*      MOVE 09 TO A101=0.
33200*      WRITE SERVICE=PROVIDED.
33300*      MOVE ALL "N" TO CLINIC=DATA.
33500*EPJ.
33600*      CLOSE TAPE=IN.
33700*      CLOSE TAPE=CUT.
33800*      STOP RUN.
33900*      CLOSE TAPE=CUT WITH LOCK.
34000*      STOP RUN.

```

TALLY PROGRAM

TALLY PROGRAM

The function of the Tally program is to aggregate individual patient records into county and state level summaries, which can be used for further transformations by the Report Generator, the Plotting Program, and the Mapping Program.

In the Tally Program, detailed data is on tape with an ID of DMASTER; restart data is on tape labeled RESTART; and tallied data is on tape labeled CMASTER. The program starts by asking the operator if this run is a restart, where "restart" means that the program terminated abnormally due to a system failure. If not, the output tape, CMASTER, is covered with a special character. This technique is for restart capabilities.

The next question to the operator is concerned with the selection of a state tape. The input tape, DMASTER, is read. For reasons of efficiency, 10 counties are tallied on one pass through the input tape. Each variable is now being accumulated.

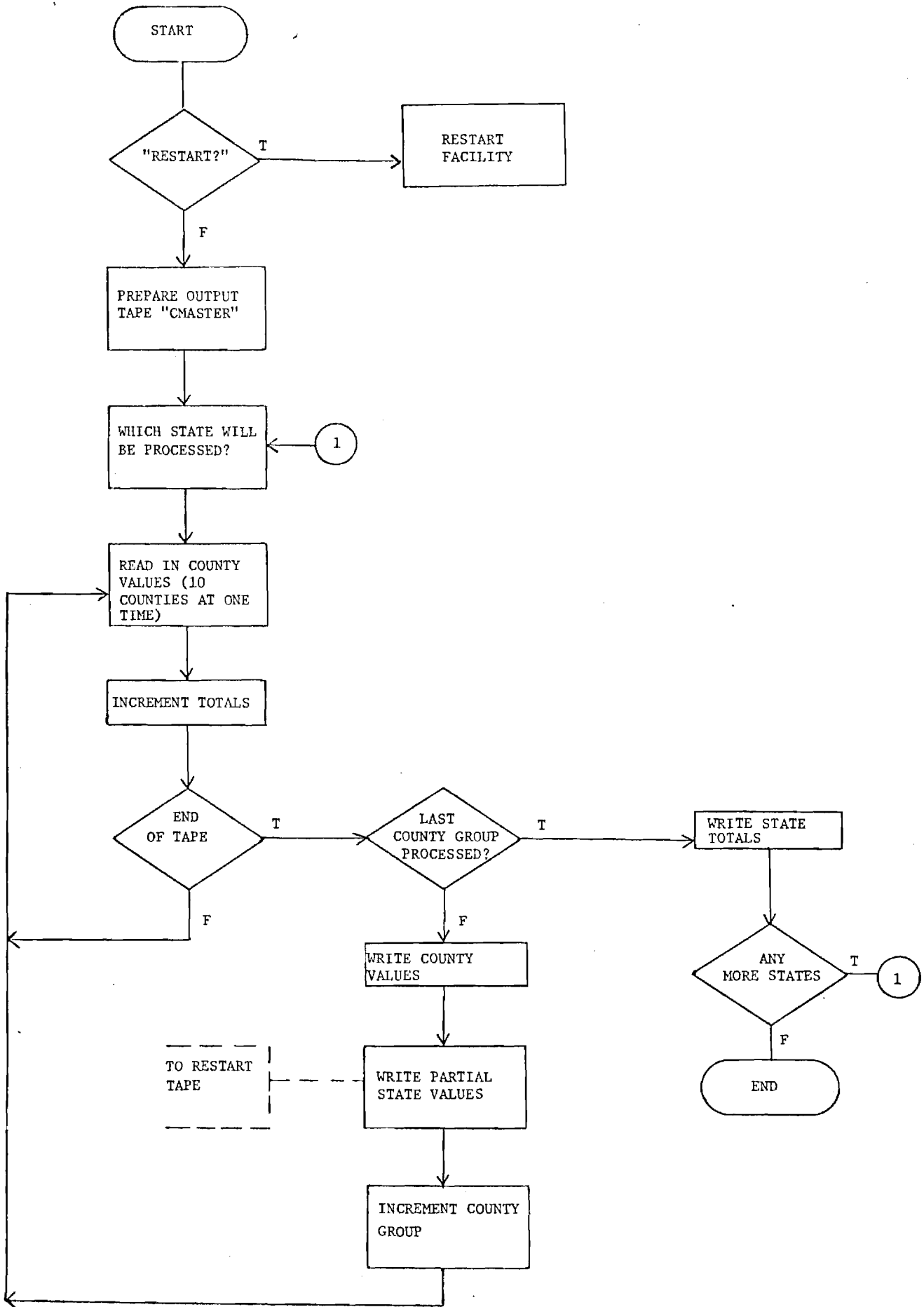
At the end of each pass through the input tape the last county processed is displayed. The county totals are written to CMASTER. The partial state totals are written to the RESTART tape and the next pass is initiated.

After the last county group is processed, the state totals are written to CMASTER. The next state tape will now be requested. When the last state is processed all files are closed and TALLY goes to a normal end-of-job.

Restarting principles: (1) The output tape is marked with a special code. As the valid information is written this special code is erased leaving an indication of exactly where the valid data ended. (2) Any totals that are being aggregated but that are not due to be written (e.g., state totals while county totals are being written) are put on a backup tape called RESTART.

Restarting the TALLY program at an intermediate point is accomplished by replying "OK" to the question "RESTART?". The files are positioned at the proper point and normally processing continues.

TALLY PROGRAM FLOWCHART



```

50*SYREF
100*SLIST
300*IDENTIFICATION DIVISION.
500*PROGRAM-ID. HEALTH EDUCATION AND WELFARE MASTER CONTROL
700*      PROGRAM STATE TV DATA PROCESSING NETWORK.
900*AUTHOR. DANIEL RAY CRIDER.
1100*INSTALLATION. RICH COMPUTER CENTER--GA INST OF TECHNOLOGY.
1300*DATE-WRITTEN. JULY-DECEMBER 1975.
1500*DATE-COMPILED.
1700*ENVIRONMENT DIVISION.
1900*CONFIGURATION SECTION.
2100*SOURCE-COMPUTER. P-5500 .
2300*OBJECT-COMPUTER. P-5500.
2500*INPUT-OUTPUT SECTION.
2700*FILE-CONTROL.
2900*      SELECT DETAILED-MASTER ASSIGN TO TAPE.
3100*      SELECT COUNTY-MASTER ASSIGN TO TAPE.
3300*      SELECT COMLINE ASSIGN TO CONSOLE.
3500*      SELECT COMLINE2 ASSIGN TO CONSOLE.
3700*      SELECT RESTART-FILE ASSIGN TO TAPE.
3900*I-O-CONTROL.
4100*DATA DIVISION.
4300*FILE SECTION.
4500*FD RESTART-FILE
4700*      BLOCK CONTAINS 20 RECORDS
4900*      RECORDING MODE IS STANDARD
5100*      RECORD CONTAINS 80 CHARACTERS
5300*      VALUE OF ID IS "RESTART"
5500*      SAVE-FACTOR IS 300.
5700*01 RESTART-A.
5900*      03 RES-COUNT-NAME          PIC X(3) JUST RIGHT.
6100*      03 RESTART-NUM          PIC 999
6300*      03 CLINIC-TOTAL          PIC 9(6) JUST RIGHT.
6500*      03 PATIENT-TOTAL          PIC 9(12) JUST RIGHT.
6700*      03 MEDICAID-TOTAL          PIC 9(12) JUST RIGHT.
6900*      03 FEMALE-TOTAL          PIC 9(12) JUST RIGHT.
7100*      03 MALE-TOTAL            PIC 9(12) JUST RIGHT.
7300*      03 CA-DUM              PIC X(20) JUST RIGHT.
7500*01 RESTART-B.
7700*      03 RACE.
7900*          04 WHITE              PIC 9(10) JUST RIGHT.
8100*          04 BLACK              PIC 9(10) JUST RIGHT.
8300*          04 AMERICAN-INDIAN    PIC 9(10) JUST RIGHT.
8500*          04 MEXICAN-AMERICAN  PIC 9(10) JUST RIGHT.
8700*          04 ORIENTAL          PIC 9(10) JUST RIGHT.
8900*          04 OTHER-RACE        PIC 9(10) JUST RIGHT.
9100*          04 CR-DUM              PIC X(20) JUST RIGHT.
9300*01 RESTART-B2.
9500*      03 ETHNIC                PIC 9(10) JUST RIGHT.
9700*      03 MARITAL-STATUS.
9900*          04 MARRIED            PIC 9(10) JUST RIGHT.
10100*         04 NEVER-MARRIED      PIC 9(10) JUST RIGHT.
10300*         04 SEPARATED          PIC 9(10) JUST RIGHT.
10500*         04 DIVORCED           PIC 9(10) JUST RIGHT.
10700*         04 SPOUSE-DECEASED   PIC 9(10) JUST RIGHT.
10900*         04 CR2-DUM            PIC X(20) JUST RIGHT.
11100*01 RESTART-C05.
11300*      03 AGE-TOTALS.
11500*          04 A17-UNDER          PIC 9(7).
11700*          04 A17-25            PIC 9(7).
11900*          04 A25-35            PIC 9(7).
12100*          04 A35-OVER          PIC 9(7).
12300*          04 AVERAGE-AGE      PIC 9(2).
12500*          04 AGE-DUM            PIC X(50).
12700*01 RESTART-C.
12900*      03 VISIT-TOTAL.
13100*          04 VTOTAL              PIC 9(7) JUST RIGHT.
13300*          04 SUPPLY-ON-SCHED     PIC 9(7) JUST RIGHT.
13500*          04 UNSCHED-ANNUAL-CHECK PIC 9(7) JUST RIGHT.
13700*          04 INTAKE-TOTAL       PIC 9(7) JUST RIGHT.
13750*          04 INTAKE-INTY-ANN-EXAM PIC 9(7) JUST RIGHT.
13760*          04 INTAKE-COUNSELING  PIC 9(7) JUST RIGHT.
13900*          04 REVTS-ANNUAL-CHECK PIC 9(7) JUST RIGHT.
14100*          04 REVIST              PIC 9(7) JUST RIGHT.
14300*          04 SUPPLY-ON-UNSCHED   PIC 9(7) JUST RIGHT.
14500*          04 UNSCHED-FIN-PROB    PIC 9(7) JUST RIGHT.
14700*          04 CC1-DUM            PIC X(10) JUST RIGHT.
14900*01 RESTART-C1.
15100*          03 UNSCHED-PROBLEM      PIC 9(7) JUST RIGHT.
15300*          03 UNSCHED-PROBLEM-REV PIC 9(7) JUST RIGHT.
15500*          03 PREG-TOTAL.

```

15700*	04	TOTAL-PPEC	PIC	9(7)	JUST	FIGHT.	*
15900*	04	BDKN-ALIVE	PIC	9(7)	JUST	FIGHT.	*
16100*	04	LAST-DELIVERY.					*
16300*	05	RCPN-ALIVE-TERM	PIC	9(7)	JUST	FIGHT.	*
16500*	05	RCPN-ALIVE-PRE	PIC	9(7)	JUST	FIGHT.	*
16700*	05	RCPN-DEAD	PIC	9(7)	JUST	FIGHT.	*
16900*	05	MIS-ACFT	PIC	9(7)	JUST	FIGHT.	*
17100*	04	CC2-DUM	PIC	X(24)	JUST	FIGHT.	*
17300*	01	RESTART-C2.					*
17500*	04	BEREFT-FBER	PIC	8(7)	JUST	FIGHT.	*
17900*	04	UNKNOWN	PIC	9(7)	JUST	FIGHT.	*
18100*	04	FATAL-DEATHS	PIC	9(7)	JUST	FIGHT.	*
18300*	04	CHILDREN-NOW-ALIVE	PIC	9(7)	JUST	FIGHT.	*
18500*	04	CC-DUM	PIC	X(45)	JUST	FIGHT.	*
18700*	01	RESTART-D.					*
18900*	03	CONTRACEPTIVE-USE.					*
19100*	04	PATIENTS-ONCF-USED	PIC	9(7)	JUST	FIGHT.	*
19300*	04	METHOD-USED-MOST.					*
19500*	05	NONE	PIC	9(7)	JUST	FIGHT.	*
19700*	05	ORAL	PIC	9(7)	JUST	FIGHT.	*
19900*	05	TUP	PIC	9(7)	JUST	FIGHT.	*
20100*	05	DIAPHEAGM	PIC	9(7)	JUST	FIGHT.	*
20300*	05	FOAM	PIC	9(7)	JUST	FIGHT.	*
20500*	05	RHYTHM	PIC	9(7)	JUST	FIGHT.	*
20700*	05	CONDOM	PIC	9(7)	JUST	FIGHT.	*
20900*	04	CD-DUM	PIC	X(24)	JUST	FIGHT.	*
21100*	01	RESTART-D1.					*
21300*	04	INJECTION	PIC	9(7)	JUST	FIGHT.	*
21500*	04	STERILIZATION	PIC	9(7)	JUST	FIGHT.	*
21700*	04	OTHER-(CONTRA	PIC	9(7)	JUST	FIGHT.	*
21900*	04	METHOD-NOT-KNOWN	PIC	9(7)	JUST	FIGHT.	*
22100*	04	METHOD-PRESCRIBED-RY.					*
22300*	05	PRIV-FACTOP	PIC	9(7)	JUST	FIGHT.	*
22500*	05	PUR-CLINIC	PIC	9(7)	JUST	FIGHT.	*
22700*	05	DRUGGIST	PIC	9(7)	JUST	FIGHT.	*
22900*	05	OTHER	PIC	9(7)	JUST	FIGHT.	*
23100*	04	CD1-DUM	PIC	X(24)	JUST	FIGHT.	*
23300*	01	RESTART-E.					*
23500*	02	SERVICES-PROVIDED.					*
23700*	04	CONTRACEP-CONUN	PIC	9(7)	JUST	FIGHT.	*
23900*	04	STERILIZA-CONUN	PIC	9(7)	JUST	FIGHT.	*
24100*	04	INFERTILITY-CONUN					*
24300*	04	ABORTION-CONUN	PIC	9(7)	JUST	FIGHT.	*
24500*	04	SOCIAL-SER-CONUN	PIC	9(7)	JUST	FIGHT.	*
24700*	04	OTHER-CONUN	PIC	9(7)	JUST	FIGHT.	*
24900*	04	BLOOD-PRESSURE	PIC	9(7)	JUST	FIGHT.	*
25100*	04	VD-PLACD-TEST	PIC	9(7)	JUST	FIGHT.	*
25300*	04	CF-DUM	PIC	X(24)	JUST	FIGHT.	*
25500*	01	RESTART-E1.					*
25700*	04	HCT-HGE-TEST	PIC	9(7)	JUST	FIGHT.	*
25900*	04	BLOOD-TEST	PIC	9(7)	JUST	FIGHT.	*
26100*	04	VDRI-TEST					*
26300*	05	VDRL-TOTAL	PIC	9(7)	JUST	FIGHT.	*
26500*	05	VDRL-POS	PIC	9(7)	JUST	FIGHT.	*
26700*	05	VDRL-NEG	PIC	9(7)	JUST	FIGHT.	*
26900*	04	PAP-SMEAR.					*
27100*	05	PAP-TOTAL	PIC	9(7)	JUST	FIGHT.	*
27300*	05	PAP-POS	PIC	9(7)	JUST	FIGHT.	*
27500*	05	PAP-NEG	PIC	9(7)	JUST	FIGHT.	*
27700*	04	CF1-DUM	PIC	X(24)	JUST	FIGHT.	*
27900*	01	RESTART-E2.					*
28100*	04	GC-CULTURE.					*
28300*	05	GC-TOTAL	PIC	9(7)	JUST	FIGHT.	*
28500*	05	GC-POS	PIC	9(7)	JUST	FIGHT.	*
28700*	05	GC-NEG	PIC	9(7)	JUST	FIGHT.	*
28900*	04	BREAST-TOTAL	PIC	9(7)	JUST	FIGHT.	*
29100*	04	PELVIC-TOTAL	PIC	9(7)	JUST	FIGHT.	*
29300*	04	URINALYSIS-TOT	PIC	9(7)	JUST	FIGHT.	*
29500*	04	STICKLE-CELL-TEST.					*
29700*	05	STICKLE-TOTAL	PIC	9(7)	JUST	FIGHT.	*
29900*	05	STICKLE-POS	PIC	9(7)	JUST	FIGHT.	*
30100*	04	CE2-DUM	PIC	X(24)	JUST	FIGHT.	*
30300*	01	RESTART-E3.					*
30500*	04	STICKLE-NEG	PIC	9(7)	JUST	FIGHT.	*
30700*	04	STERILIZATION-TOT	PIC	9(7)	JUST	FIGHT.	*
30750*	04	STER-THER	PIC	9(7)	JUST	FIGHT.	*
30760*	04	STER-NON	PIC	9(7)	JUST	FIGHT.	*
30900*	04	INFERTILITY-TOTAL	PIC	9(7)	JUST	FIGHT.	*
31100*	04	PREGNANCY-TEST.					*
31300*	05	PREG-TEST-TOTAL	PIC	9(7)	JUST	FIGHT.	*
31500*	05	PREG-POS	PIC	9(7)	JUST	FIGHT.	*
31700*	05	PREG-NEG	PIC	9(7)	JUST	FIGHT.	*

31900*	04 OTHER-TEST	PIC 9(7)	JUST RIGHT.
32100*	04 CF-DUM	PIC X(17)	JUST RIGHT.
32300*01	RESTART-F.		
32500*	03 CONTRA-METHOD-AFTER-VISIT.		
32700*	04 NO-METHOD	PIC 9(7)	JUST RIGHT.
32900*	04 ORAL-TOTAL	PIC 9(7)	JUST RIGHT.
33100*	04 IUD-TOTAL	PIC 9(7)	JUST RIGHT.
33300*	04 DIA-TOTAL	PIC 9(7)	JUST RIGHT.
33500*	04 FOAM-TOTAL	PIC 9(7)	JUST RIGHT.
33700*	04 RYTHM-TOTAL	PIC 9(7)	JUST RIGHT.
33900*	04 CONDOM-TOTAL	PIC 9(7)	JUST RIGHT.
34100*	04 INJECTION-TOTAL	PIC 9(7)	JUST RIGHT.
34300*	04 CF-DUM	PIC X(24)	JUST RIGHT.
34500*01	RESTART-F1.		
34700*	04 STERILIZA-TOTAL	PIC 9(7)	JUST RIGHT.
34900*	04 OTHER-CONTRA-TOTAL	PIC 9(7)	JUST RIGHT.
35100*	04 REASON-STOP-METHOD.		
35300*	05 PREP-PLAN-TOTAL	PIC 9(7)	JUST RIGHT.
35700*	05 SEEK-REFG-TOTAL	PIC 9(7)	JUST RIGHT.
35900*	05 MEDICAL-REASON-TOT	PIC 9(7)	JUST RIGHT.
36100*	05 OTHER-REASON-TOTAL	PIC 9(7)	JUST RIGHT.
36300*	05 CF-DUM	PIC X(31)	JUST RIGHT.
36500*01	RESTART-G.		
36700*	03 REFERRED-ELSEWHERE.		
36900*	04 TOTAL-REFERRED	PIC 9(7)	JUST RIGHT.
37100*	04 SOC-SEE-TOTAL	PIC 9(7)	JUST RIGHT.
37300*	04 MED-SEE-TOTAL	PIC 9(7)	JUST RIGHT.
37500*	04 STERILIZATION-REF	PIC 9(7)	JUST RIGHT.
37700*	04 ABORTION-TOTAL	PIC 9(7)	JUST RIGHT.
37900*	04 INFERTIL-TREAT-TOT	PIC 9(7)	JUST RIGHT.
38100*	04 OTHER-REFERRED-TOTAL	PIC 9(7)	JUST RIGHT.
38300*	03 PATIENT-SEEN-BY.		
38500*	04 PHYSICIAN-TOTAL	PIC 9(7)	JUST RIGHT.
38700*	04 CG-DUM	PIC X(24)	JUST RIGHT.
38900*01	RESTART-G1.		
39100*	04 P-H-N-TOTAL	PIC 9(7)	JUST RIGHT.
39300*	04 F-P-H-N-TOTAL	PIC 9(7)	JUST RIGHT.
39500*	04 NURSE-WIFE-TOT	PIC 9(7)	JUST RIGHT.
39700*	04 L-P-N-TOTAL	PIC 9(7)	JUST RIGHT.
39900*	04 SOCIAL-SER-TOTAL	PIC 9(7)	JUST RIGHT.
40100*	04 AIDE-TOTAL	PIC 9(7)	JUST RIGHT.
40300*	04 CLERK-TOTAL	PIC 9(7)	JUST RIGHT.
40500*	04 NUTRITIONIST-TOT	PIC 9(7)	JUST RIGHT.
40700*	04 CG1-DUM	PIC X(24).	
40900*01	RESTART-G2.		
41100*	04 OTHER-HANDLED-TOT	PIC 9(7)	JUST RIGHT.
41300*	04 CG-DUM	PIC X(73)	JUST RIGHT.
41500*01	RESTART-H.		
41700*	03 REFERRAL-SOURCE.		
41900*	04 SELF-TOTAL	PIC 9(7)	JUST RIGHT.
42100*	04 OUTREACH-WORKER-TOT	PIC 9(7)	JUST RIGHT.
42300*	04 OTHER-REF-CLINIC-TOT	PIC 9(7)	JUST RIGHT.
42500*	04 HOSP-HEALTH-AGENCY-TOT	PIC 9(7)	JUST RIGHT.
42700*	04 PRIV-DOC-NURSE-TOTAL	PIC 9(7)	JUST RIGHT.
42900*	04 WELFARE-AGENCY-TOT	PIC 9(7)	JUST RIGHT.
43100*	04 ANOTHER-CLINIC-PAT-TOT	PIC 9(7)	JUST RIGHT.
43300*	04 FAM-FRIEND-TOT	PIC 9(7)	JUST RIGHT.
43500*	04 CH-DUM	PIC X(24)	JUST RIGHT.
43700*01	RESTART-H1.		
43900*	04 TV-RADIO-NEWSPAPER-TOT	PIC 9(7)	JUST RIGHT.
44100*	04 REFERRED-BY-OTHER-TOTAL	PIC 9(7)	JUST RIGHT.
44300*	04 REFERRED-BY-UNKNOWN-TOT	PIC 9(7)	JUST RIGHT.
44500*	04 CH1-DUM	PIC X(59)	JUST RIGHT.
44700*01	RESTART-I.		
44900*	03 NEXT-APPOINTMENT-PUR.		
45100*	04 SUPPLY-STRING-CHK-TOT	PIC 9(7)	JUST RIGHT.
45300*	04 ANNUAL-EXAM-TOTAL	PIC 9(7)	JUST RIGHT.
45500*	04 MEDICAL-PROP-TOTAL	PIC 9(7)	JUST RIGHT.
45700*	04 OTHER-APPOIN-TOTAL	PIC 9(7)	JUST RIGHT.
45900*	04 NO-NEXT-APPOIN-TOT	PIC 9(7)	JUST RIGHT.
46100*	03 REASON-ENG-DISCHARGE.		
46300*	04 STEPIL-APPOIN-TOTAL	PIC 9(7)	JUST RIGHT.
46500*	04 MENDPAUSE-TOTAL	PIC 9(7)	JUST RIGHT.
46700*	04 MEDICAL-REAS-TOTAL	PIC 9(7)	JUST RIGHT.
46900*	04 CI1-DUM	PIC X(24)	JUST RIGHT.
47100*01	RESTART-I1.		
47300*	04 PATIENT-MOVED-TOTAL	PIC 9(7)	JUST RIGHT.
47500*	04 PATIENT-LOST-INTEREST-TOT	PIC 9(7)	JUST RIGHT.
47700*	04 PREG-DESTROYED-TOTAL	PIC 9(7)	JUST RIGHT.
47900*	04 PREG-UNPLAN-TOTAL	PIC 9(7)	JUST RIGHT.
48100*	04 UNKNOWN-DISCHARGE-REAS-TOT	PIC 9(7)	JUST RIGHT.
48300*	04 CI-DUM	PIC X(45)	JUST RIGHT.

```

48500*01 RESTART-J.
48700* 02 R-DATE-STORE OCCURS 10 TIMES PIC 9(5).
48900* 02 R-STATE-DATE-STORE PIC 9(7).
49100* 02 R-REG-DATE-STORE PIC 9(7).
49300* 02 FILLER PIC X(16).
49500*FD DETAILED-MASTER
49700* LABEL RECORDS ARE STANDARD
49900* SAVE-FACTOR IS 300
50100* VALUE OF ID IS "DMASTER"
50300* RECORDING MODE IS STANDARD
50500* RECORD CONTAINS 80 CHARACTERS
50700* BLOCK CONTAINS 30 RECORDS.
50900*01 CLINIC-DATA.
51100* 02 COUNTY-NAME PIC V(3).
51300* 02 COUNTY-NUMBER PIC 9(3).
51500* 02 CLINIC-NUMBER PIC 9(5).
51700* 02 FILLER PIC V(69).
51900*01 PATIENT-DATA.
52100* 02 COUNTY-PATIENT-NUMBER PIC 9(9).
52300* 02 MEDICAID-REGISTERED PIC V(1).
52500* 02 MEDICAID-NUMBER PIC 9(6).
52700* 02 SEX PIC V(1).
52900* 02 M-RACE PIC 9(1).
53100* 02 M-ETHNIC PIC X(1).
53300* 02 M-MARITAL-STATUS PIC 9(1).
53500* 02 DATE-OF-BIRTH.
53700* 03 MM PIC 9(2).
53900* 03 DY PIC 9(2).
54100* 03 YR PIC 9(2).
54300* 02 COUNTY-RESIDENCE PIC 9(3).
54500* 02 HIGH-SCHOOL-GRADE-COMPLETED PIC 9(2).
54700* 02 CURRENTLY-ON-WELFARE PIC 9(1).
54900* 02 FINANCIAL-STATUS PIC 9(1).
55100* 02 NUMBER-ON-FAMILY-HOUSEHOLD PIC 9(2).
55300* 02 FILLER PIC V(45).
55500*01 VISIT-DATA.
55700* 02 DATE-OF-VISIT PIC 9(6).
55900* 02 TYPE-OF-VISIT PIC 9(2).
56100* 02 FILLER PIC V(72).
56300*01 PRFG-HISTORY.
56500* 02 NUMBER-OF-PREGNANCIES PIC 9(2).
56700* 02 NUMBER-BORN-ALIVE PIC 9(2).
56900* 02 DATE-LAST-PREG-ENDED PIC 9(6).
57100* 02 OUTCOME-OF-LAST-DELIVERY PIC 9(1).
57300* 02 NUMBER-OF-FETAL-DEATHS PIC 9(2).
57500* 02 NUMBER-CHILDREN-ALIVE-NOW PIC 9(2).
57700* 02 FILLER PIC V(65).
57900*01 CONTRACEPTIVE-HISTORY.
58100* 02 EVER-USED-METHOD PIC V(1).
58300* 02 METHOD-MOST-USED-LAST-2-YEARS PIC 9(2).
58500* 02 WHO-PRESCRIBED-LATEST-METHOD PIC 9(1).
58700* 02 FILLER PIC V(76).
58900*01 SERVICES-PROVIDED.
59100* 02 COUNSELING PIC 9(1).
59300* 02 MBLOOD-PRESSURE PIC X(1).
59500* 02 MVD-BLOOD-TEST PIC X(1).
59700* 02 HCT-HGR PIC V(1).
59900* 02 MBLOOD-TEST PIC X(1).
60100* 02 VDPL PIC V(2).
60300* 02 MPAP-SMEAR PIC X(2).
60500* 02 G-C-CULTURE PIC V(2).
60700* 02 BREAST PIC V(1).
60900* 02 PELVIC-EXAM PIC V(1).
61100* 02 URINALYSIS PIC V(1).
61300* 02 SICKLE-CELL-ANEMIA PIC V(2).
61500* 02 M-STERILIZATION PIC V(2).
61700* 02 INFERTILITY PIC V(1).
61900* 02 MPREGNANCY-TEST PIC X(2).
62100* 02 M-OTHER PIC X(1).
62300* 02 METHOD-AFTER-VISIT PIC 9(1).
62500* 02 REASON-FOR-STOPPING-METHOD PIC 9(1).
62700* 02 M-PREFERRED-ELSEWHERE PIC 9(1).
62900* 02 M-PATIENT-SEEN-BY PIC 9(1).
63100* 02 MAIN-SOURCE-OF-REFERRAL PIC 9(2).
63300* 02 DATE-OF-NEXT-APPOINTMENT PIC 9(6).
63500* 02 PURPOSE-OF-NEXT-APPOINTMENT PIC 9(1).
63700* 02 M-REASON-FOR-DISCHARGE PIC 9(1).
63900* 02 FILLER PIC V(44).
64100*FD COMLINE
64300* RECORD CONTAINS 80 CHARACTERS.
64500*01 OPERATOR-MESSAGE PIC X(80) USAGE IS DISPLAY.
64700*FD COMLINE2
64900* RECORD CONTAINS 2 CHARACTERS.

```


81300*	05 RYTHM	PIC 9(7) JUST RIGHT.	*
81500*	05 CONDOM	PIC 9(7) JUST RIGHT.	*
81700*	04 CD-DUM	PIC X(24) JUST RIGHT.	*
81900*01	COUNTY-D1.		*
82100*	04 INJECTION	PIC 9(7) JUST RIGHT.	*
82300*	04 STERILIZATION	PIC 9(7) JUST RIGHT.	*
82350*	04 STER-THER	PIC 9(7) JUST RIGHT.	*
82360*	04 STER-MON	PIC 9(7) JUST RIGHT.	*
82500*	04 OTHER-CONTRA	PIC 9(7) JUST RIGHT.	*
82600*	04 METHOD-OF-CONTR-REKN-RY.	PIC 9(7) JUST RIGHT.	*
83100*	05 PRIV-JECTOP	PIC 9(7) JUST RIGHT.	*
83300*	05 PUB-CLINIC	PIC 9(7) JUST RIGHT.	*
83500*	05 DRUGGIST	PIC 9(7) JUST RIGHT.	*
83700*	05 OTHER	PIC 9(7) JUST RIGHT.	*
83900*	04 CD1-DUM	PIC X(10) JUST RIGHT.	*
84100*01	COUNTY-E.		*
84300*	03 SERVICES-PROVIDED.		*
84500*	04 CONTRACEP-COUN	PIC 9(7) JUST RIGHT.	*
84700*	04 STERILIZA-COUN	PIC 9(7) JUST RIGHT.	*
84900*	04 INFERTILITY-COUN	PIC 9(7) JUST RIGHT.	*
85100*	04 ABORTION-COUN	PIC 9(7) JUST RIGHT.	*
85300*	04 SOCIAL-SER-COUN	PIC 9(7) JUST RIGHT.	*
85500*	04 OTHER-COUN	PIC 9(7) JUST RIGHT.	*
85700*	04 BLOOD-PRESSURE	PIC 9(7) JUST RIGHT.	*
85900*	04 VD-PLDOP-TEST	PIC 9(7) JUST RIGHT.	*
86100*	04 CE-DUM	PIC X(24) JUST RIGHT.	*
86300*01	COUNTY-E1.		*
86500*	04 HCT-HGF-TEST	PIC 9(7) JUST RIGHT.	*
86700*	04 BLOOD-TEST	PIC 9(7) JUST RIGHT.	*
86900*	04 VDRI-TEST.		*
87100*	05 VDRL-TOTAL	PIC 9(7) JUST RIGHT.	*
87300*	05 VDRL-PDS	PIC 9(7) JUST RIGHT.	*
87500*	05 VDRI-NEG	PIC 9(7) JUST RIGHT.	*
87700*	04 PAP-SMEAR.		*
87900*	05 PAP-TOTAL	PIC 9(7) JUST RIGHT.	*
88100*	05 PAP-PDS	PIC 9(7) JUST RIGHT.	*
88300*	05 PAP-NEG	PIC 9(7) JUST RIGHT.	*
88500*	04 CE1-DUM	PIC X(24) JUST RIGHT.	*
88700*01	COUNTY-E2.		*
88900*	04 GC-CULTURE.		*
89100*	05 GC-TOTAL	PIC 9(7) JUST RIGHT.	*
89300*	05 GC-POS	PIC 9(7) JUST RIGHT.	*
89500*	05 GC-NEG	PIC 9(7) JUST RIGHT.	*
89700*	04 BREAST-TOTAL	PIC 9(7) JUST RIGHT.	*
89900*	04 PELVIC-TOTAL	PIC 9(7) JUST RIGHT.	*
90100*	04 URINALYSIS-TOT	PIC 9(7) JUST RIGHT.	*
90300*	04 STICKLE-CELL-TEST.		*
90500*	05 STICKLE-TOTAL	PIC 9(7) JUST RIGHT.	*
90700*	05 STICKLE-POS	PIC 9(7) JUST RIGHT.	*
90900*	04 CE2-DUM	PIC X(24) JUST RIGHT.	*
91100*01	COUNTY-E3.		*
91300*	04 STICKLE-NEG	PIC 9(7) JUST RIGHT.	*
91500*	04 STERILIZATION-TOT	PIC 9(7) JUST RIGHT.	*
91700*	04 INFERTILITY-TOTAL	PIC 9(7) JUST RIGHT.	*
91900*	04 PREGNANCY-TEST.		*
92100*	05 PREG-TEST-TOTAL	PIC 9(7) JUST RIGHT.	*
92300*	05 PREG-PDS	PIC 9(7) JUST RIGHT.	*
92500*	05 PREG-NEG	PIC 9(7) JUST RIGHT.	*
92700*	04 OTHER-TEST	PIC 9(7) JUST RIGHT.	*
92900*	04 CE-DIA	PIC X(31) JUST RIGHT.	*
93100*01	COUNTY-F.		*
93300*	03 CONTRA-METHOD-AFTER-VISIT.		*
93500*	04 NO-METHOD	PIC 9(7) JUST RIGHT.	*
93700*	04 ORAL-TOTAL	PIC 9(7) JUST RIGHT.	*
93900*	04 IUD-TOTAL	PIC 9(7) JUST RIGHT.	*
94100*	04 DIA-TOTAL	PIC 9(7) JUST RIGHT.	*
94300*	04 FOAM-TOTAL	PIC 9(7) JUST RIGHT.	*
94500*	04 RYTHM-TOTAL	PIC 9(7) JUST RIGHT.	*
94700*	04 CONDOM-TOTAL	PIC 9(7) JUST RIGHT.	*
94900*	04 INJECTION-TOTAL	PIC 9(7) JUST RIGHT.	*
95100*	04 CE-DUM	PIC X(24) JUST RIGHT.	*
95300*01	COUNTY-F1.		*
95500*	04 STERILIZATION-TOTAL	PIC 9(7) JUST RIGHT.	*
95900*	04 REASON-STOP-METHOD.		*
96100*	05 PREG-PLAN-TOTAL	PIC 9(7) JUST RIGHT.	*
96300*	05 PREG-UNPLAN-TOT	PIC 9(7) JUST RIGHT.	*
96500*	05 SEEK-PREG-TOTAL	PIC 9(7) JUST RIGHT.	*
96700*	05 MEDICAL-REASON-TOT	PIC 9(7) JUST RIGHT.	*
96900*	05 OTHER-REASON-TOTAL	PIC 9(7) JUST RIGHT.	*
97100*	05 CE-DUM	PIC X(31) JUST RIGHT.	*
97300*01	COUNTY-G.		*

97500*	03	REFERRED-BY SEWHERE.			
97700*	04	TOTAL-REFERRED	PTC	9(7)	JUST RIGHT.
97900*	04	SOC-SER-TOTAL	PTC	9(7)	JUST RIGHT.
98100*	04	MED-SER-TOTAL	PTC	9(7)	JUST RIGHT.
98300*	04	STERILIZATION-REF	PTC	9(7)	JUST RIGHT.
98500*	04	ADOPTION-TOTAL	PTC	9(7)	JUST RIGHT.
98700*	04	INFERTIL-TREAT-TOT	PTC	9(7)	JUST RIGHT.
98900*	04	OTHER-REFERRED-TOTAL	PTC	9(7)	JUST RIGHT.
99100*	03	PATIENT-SEEN-BY.			
99300*	04	PHYSICIAN-TOTAL	PTC	9(7)	JUST RIGHT.
99500*	04	CG-DUM	PTC	X(24)	JUST RIGHT.
99700*	01	COUNTY-G1.			
99900*	04	P-H-N-TOTAL	PTC	9(7)	JUST RIGHT.
100100*	04	F-P-H-N-TOTAL	PTC	9(7)	JUST RIGHT.
100300*	04	NURSE-MIDWIFE-TOT	PTC	9(7)	JUST RIGHT.
100500*	04	L-P-N-TOTAL	PTC	9(7)	JUST RIGHT.
100700*	04	SOCIAL-SER-TOTAL	PTC	9(7)	JUST RIGHT.
100900*	04	CLERK-TOTAL	PTC	8(7)	JUST RIGHT.
101300*	04	NUTRITIONIST-TOT	PTC	9(7)	JUST RIGHT.
101500*	04	CG1-DUM	PTC	X(24)	
101700*	01	COUNTY-G2.			
101900*	04	OTHER-HANDLED-TOT	PTC	9(7)	JUST RIGHT.
102100*	04	CG-DUM	PTC	X(73)	JUST RIGHT.
102300*	01	COUNTY-H.			
102500*	03	REFERRAL-SOURCE.			
102700*	04	SELF-TOTAL	PTC	9(7)	JUST RIGHT.
102900*	04	OUTREACH-WORKER-TOT	PTC	9(7)	JUST RIGHT.
103100*	04	OTHER-EE-CLINIC-TOT	PTC	9(7)	JUST RIGHT.
103300*	04	HOSP-HEALTH-AGENCY-TOT	PTC	9(7)	JUST RIGHT.
103500*	04	PRIV-DOC-NURSE-TOTAL	PTC	9(7)	JUST RIGHT.
103700*	04	WELFARE-AGENCY-TOT	PTC	9(7)	JUST RIGHT.
103900*	04	ANDTHEE-CLINIC-PAT-TOT	PTC	9(7)	JUST RIGHT.
104100*	04	FAM-FRIEND-TOT	PTC	9(7)	JUST RIGHT.
104300*	04	CH-DUM	PTC	X(24)	JUST RIGHT.
104500*	01	COUNTY-H1.			
104700*	04	TV-RADIO-NEWSPAPER-TOT	PTC	9(7)	JUST RIGHT.
104900*	04	REFERRED-BY-OTHER-TOTAL	PTC	9(7)	JUST RIGHT.
105100*	04	REFERRED-BY-UNKNOWN-TOT	PTC	9(7)	JUST RIGHT.
105300*	04	CH1-DUM	PTC	X(59)	JUST RIGHT.
105500*	01	COUNTY-I.			
105700*	03	NEXT-APPOINTMENT-PUR.			
105900*	04	SUPPLY-STIPING-CHK-TOT	PTC	9(7)	JUST RIGHT.
106100*	04	ANNUAL-EXAM-TOTAL	PTC	9(7)	JUST RIGHT.
106300*	04	MEDICAL-PROR-TOTAL	PTC	9(7)	JUST RIGHT.
106500*	04	OTHER-APPOIN-TOTAL	PTC	9(7)	JUST RIGHT.
106700*	04	NO-NEXT-APPOIN-TOT	PTC	9(7)	JUST RIGHT.
106900*	03	REASON-FOE-DISCHARGE.			
107100*	04	STERIL-APPOIN-TOTAL	PTC	9(7)	JUST RIGHT.
107300*	04	MEDICAL-REFERRAL-TOTAL	PTC	8(7)	JUST RIGHT.
107700*	04	CI1-DUM	PTC	X(24)	JUST RIGHT.
107900*	01	COUNTY-I1.			
108100*	04	PATIENT-MOVED-TOTAL	PTC	9(7)	JUST RIGHT.
108300*	04	PATIENT-LOST-INTEREST-TOT	PTC	9(7)	JUST RIGHT.
108500*	04	PREG-DESTROY-TOTAL	PTC	9(7)	JUST RIGHT.
108700*	04	PREG-UNPLAN-TOTAL	PTC	9(7)	JUST RIGHT.
108900*	04	UNKNOWN-DISCHAR-REAS-TOT	PTC	9(7)	JUST RIGHT.
109100*	04	CI-DUM	PTC	X(45)	JUST RIGHT.
109300*	WORKING-STORAGE SECTION.				
109500*	01	ZF	PTC	0	COMP VALUE IS 0.
109700*	01	COUNTY-TRACK	PTC	9(3)	COMP.
109900*	01	MUM	PTC	9(12)	COMP.
110100*	01	X	PTC	0(2)	JUST RIGHT COMP.
110300*	01	REC-TOTALS.			
110500*	03	REG-A.			
110700*	04	R-COUNT-MALE	PTC	X(3)	VALUE "REG".
110900*	04	R-COUNTY-MIM	PTC	9(3)	VALUE 909.
111100*	04	CLINIC-TOTAL			PTC 9(6).
111300*	04	PATIENT-TOTAL			PTC 9(12).
111500*	04	MEDICAID-TOTAL			PTC 9(12).
111700*	04	FEMALE-TOTAL			PTC 9(12).
111900*	04	MALE-TOTAL			PTC 9(12).
112100*	03	REG-B.			
112300*	04	RACE.			
112500*	05	WHITE			PTC 9(10).
112700*	05	BLACK			PTC 9(10).
112900*	05	AMERICAN-INDIAN			PTC 9(10).
113100*	05	MEXICAN-AMERICAN			PTC 9(10).
113300*	05	ORIENTAL			PTC 9(10).
113500*	05	OTHER-RACE			PTC 9(10).
113700*	03	AFR-ETHNIC			PTC 9(10).

114100*	04	MARITAL-STATUS.		
114300*	05	MARRIED	PIC	9(10).
114500*	05	NEVER-MARRIED	PIC	9(10).
114700*	05	SEPARATED	PIC	9(10).
114900*	05	DIVORCED	PIC	9(10).
115100*	05	SPOUSE-DECEASED	PIC	9(10).
115300*	03	REG-C05.		
115500*	04	AGE-TOTALS.		
115700*	05	A17-UNDER	PIC	0(5).
115900*	05	A17-25	PIC	0(5).
116100*	05	A25-35	PIC	0(5).
116300*	05	A35-OVER	PIC	0(5).
116500*	05	AVERAGE-AGE	PIC	9(2).
116700*	05	AGE-DUM	PIC	X(2).
116900*	03	REG-C.		
117100*	04	VISIT-TOTAL.		
117300*	05	VITOTAL	PIC	9(5).
117500*	05	SUPPLY-ON-SCHED	PIC	9(5).
117700*	05	UNSCHED-ANNUAL-CHECK	PIC	9(5).
117900*	05	INTAKE-TOTAL	PIC	9(5).
117950*	05	INTAKE-INIT-ANU-EXAM	PIC	9(5).
117960*	05	INTAKE-COUNSELING	PIC	9(5).
118100*	05	REVIS-ANNUAL-CHECK	PIC	9(5).
118300*	05	REVISIT	PIC	9(5).
118500*	05	SUPPLY-ON-UNSCHED	PIC	9(5).
118700*	05	UNSCHED-NON-PROR	PIC	0(5).
118900*	03	REG-CY.		
119100*	04	UNSCHED-PROBLEM	PIC	9(5).
119300*	04	UNSCHED-PROBLEM-REV	PIC	9(5).
119500*	04	PREG-TOTAL		
119700*	05	TOTAL-PREG	PIC	9(5).
119900*	05	BORN-ALIVE	PIC	9(5).
120100*	05	LAST-DELIVERY.		
120300*	06	BORN-ALIVE-TERM	PIC	9(5).
120500*	06	BORN-ALIVE-PRE	PIC	9(5).
120700*	06	BORN-DEAD	PIC	9(5).
120900*	06	MIS-ABORT	PIC	9(5).
121100*	03	REG-C2.		
121300*	06	NEVER-PREG	PIC	9(5).
121500*	06	PREG-OTHER	PIC	9(5).
121700*	06	UNKNOWN	PIC	9(5).
121900*	06	FETAL-DEATHS	PIC	9(5).
122100*	06	CHILDREN-NOW-ALIVE	PIC	9(5).
122300*	03	REG-D.		
122500*	04	CONTRACEPTIVE-USE.		
122700*	05	PATIENTS-ONCE-USED	PIC	9(5).
122900*	05	METHOD-USED-MOST.		
123100*	06	NONE	PIC	9(5).
123300*	06	ORAL	PIC	9(5).
123500*	06	IUD	PIC	9(5).
123700*	06	DIAPHRAGM	PIC	9(5).
123900*	06	FOAM	PIC	9(5).
124100*	06	RYTHM	PIC	9(5).
124300*	06	CONDOM	PIC	9(5).
124500*	03	REG-D1.		
124700*	06	INJECTION	PIC	9(5).
124900*	06	STERILIZATION	PIC	9(5).
124950*	06	STER-OTHER	PIC	8(5).
125100*	06	OTHER-CONTPA	PIC	9(5).
125300*	06	METHOD-NOT-KNOWN	PIC	9(5).
125500*	06	METHOD-PRESCRIBED-BY.		
125700*	07	PRIV-FCCTOR	PIC	9(5).
125900*	07	PUR-CLINIC	PIC	9(5).
126100*	07	DRUGGIST	PIC	9(5).
126300*	07	OTHER	PIC	9(5).
126500*	03	REG-E.		
126700*	04	SERVICES-PROVIDED.		
126900*	05	CONTRACEP-COUN	PIC	0(5).
127100*	05	STERILIZA-COUN	PIC	0(5).
127300*	05	INFERTILT-COUN	PIC	0(5).
127500*	05	ABORTION-COUN	PIC	0(5).
127700*	05	SOCIAL-SER-COUN	PIC	0(5).
127900*	05	OTHER-COUN	PIC	0(5).
128100*	05	BLOOD-EPFESSURE	PIC	9(5).
128300*	05	VD-BLOOD-TEST	PIC	0(5).
128500*	03	REG-E1.		
128700*	05	HCT-HGF-TEST	PIC	0(5).
128900*	05	BLOOD-TEST	PIC	0(5).
129100*	05	VDRL-TEST.		
129300*	06	VDRL-TOTAL	PIC	0(5).
129500*	06	VDRL-FDS	PIC	0(5).
129700*	06	VDRL-NEG	PIC	0(5).

129900*	05	PAP-SMEAR.		
130100*	05	PAP-TOTAL	PIC	0(5).
130300*	06	PAP-FCS	PIC	0(5).
130500*	06	PAP-NEG	PIC	0(5).
130700*	03	REG-F2.		
130900*	05	GC-CULTURE.		
131100*	06	GC-TOTAL	PIC	0(5).
131300*	06	GC-POS	PIC	0(5).
131500*	06	GC-NEG	PIC	0(5).
131700*	05	BREAST-TOTAL	PIC	0(5).
131900*	05	PELVIC-TOTAL	PIC	0(5).
132100*	05	URINALYSIS-TOT	PIC	0(5).
132300*	05	STICKLE-CELL-TEST.		
132500*	06	STICKLE-TOTAL	PIC	0(5).
132700*	06	STICKLE-POS	PIC	0(5).
132900*	03	REG-E3.		
133100*	05	STICKLE-NEG	PIC	0(5).
133300*	05	STERILIZATION-TOT	PIC	0(5).
133500*	05	INFERTILITY-TOTAL	PIC	0(5).
133700*	05	PREGNANCY-TEST.		
133900*	06	PREG-TEST-TOTAL	PIC	0(5).
134100*	06	PREG-POS	PIC	0(5).
134300*	06	PREG-NEG	PIC	0(5).
134500*	05	OTHER-TEST	PIC	0(5).
134700*	03	REG-F.		
134900*	04	CONTRA-METHOD-AFTER-VISIT.		
135100*	05	NO-METHOD	PIC	0(5).
135300*	05	ORAL-TOTAL	PIC	0(5).
135500*	05	IUD-TOTAL	PIC	0(5).
135700*	05	DTA-TOTAL	PIC	0(5).
135900*	05	FOAM-TOTAL	PIC	0(5).
136100*	05	RYTHM-TOTAL	PIC	0(5).
136300*	05	CONDOM-TOTAL	PIC	0(5).
136500*	05	INJECTION-TOTAL	PIC	0(5).
136700*	03	REG-F1.		
136900*	04	STERILIZA-TOTAL	PIC	0(5).
137100*	04	OTHER-CONTRA-TOTAL	PIC	0(5).
137300*	04	REASON-STEP-METHOD.		
137500*	05	PREG-PLAN-TOTAL	PIC	0(5).
137700*	05	PREG-UNPLAN-TOT	PIC	9(5).
137900*	05	SEEK-PREG-TOTAL	PIC	0(5).
138100*	05	MEDICAL-REASON-TOT	PIC	0(5).
138300*	05	OTHER-REASON-TOTAL	PIC	0(5).
138500*	03	REG-G.		
138700*	04	REFERRED-ELSEWHERE.		
138900*	05	TOTAL-REFERRED	PIC	0(5).
139100*	05	SOC-SEE-TOTAL	PIC	0(5).
139300*	05	MED-SEE-TOTAL	PIC	0(5).
139500*	05	STERILIZATION-REF	PIC	0(5).
139700*	05	ABORTION-TOTAL	PIC	0(5).
139900*	05	INFERTIL-TREAT-TOT	PIC	0(5).
140100*	05	OTHER-REFERRED-TOTAL	PIC	0(5).
140300*	04	PATIENT-SEEN-BY.		
140500*	05	PHYSICIAN-TOTAL	PIC	0(5).
140700*	03	REG-G1.		
140900*	05	P-H-N-TOTAL	PIC	0(5).
141100*	05	F-P-H-N-TOTAL	PIC	0(5).
141300*	05	NURSE-MIDWIFE-TOT	PIC	0(5).
141500*	05	L-P-N-TOTAL	PIC	0(5).
141700*	05	SOCIAL-SER-TOTAL	PIC	0(5).
141900*	05	AIDE-TOTAL	PIC	0(5).
142100*	05	CLERK-TOTAL	PIC	0(5).
142300*	05	NUTRITIONIST-TOT	PIC	0(5).
142500*	03	REG-G2.		
142700*	05	OTHER-HANDLED-TOT	PIC	0(5).
142900*	03	REG-H.		
143100*	05	REFERRAL-SOURCE.		
143300*	05	SELF-TOTAL	PIC	0(5).
143500*	05	OUTREACH-WORKER-TOT	PIC	0(5).
143700*	05	OTHER-FF-CLINIC-TOT	PIC	0(5).
143900*	05	HOSP-HEALTH-AGENCY-TOT	PIC	0(5).
144100*	05	PRIV-DOC-NURSE-TOTAL	PIC	0(5).
144300*	05	WELFARE-AGENCY-TOT	PIC	0(5).
144500*	05	ANOTHER-CLINIC-PAT-TOT	PIC	0(5).
144700*	05	FAM-FRIEND-TOT	PIC	0(5).
144900*	03	REG-H1.		
145100*	05	TV-PADIC-NEWSPAPER-TOT	PIC	0(5).
145300*	05	REFERRED-BY-OTHER-TOTAL	PIC	0(5).
145500*	05	REFERRED-BY-UNKNOWN-TOT	PIC	0(5).
145700*	03	REG-I.		
145900*	04	NEXT-APPOINTMENT-PLP.		
146100*	05	SUPPLY-STRING-CHK-TOT	PIC	0(5).
146300*	05	ANNUAL-EXAM-TOTAL	PIC	0(5).

146500*	05	MEDICAL-PROR-TOTAL		PIC 9(5).
146700*	05	OTHER-APPOIN-TOTAL		PIC 9(5).
146900*	05	NO-NEXT-APPOIN-TOT		PIC 9(5).
147100*	0A	REASON-FOE-DISCHARGE.		
147300*	05	STEPIL-APPOIN-TOTAL		PIC 9(5).
147500*	05	MEMORIALSF-TOTAL		PIC 9(5).
147700*	05	MEDICAL-REAS-TOTAL		PIC 9(5).
147900*	03	REG-I1.		
148100*	05	PATIENT-MOVED-TOTAL		PIC 9(5).
148300*	05	PATIENT-48ST-INTEREST-TOT		PIC 9(5).
148500*	05	PREG-NESTRED-TOTAL		PIC 9(5).
148700*	05	PREG-UNELAN-TOTAL		PIC 9(5).
148900*	05	UNKNOWN-DISCHAR-REAS-TOT		PIC 9(5).
149100*	01	STATE-TOTALS.		
149300*	03	STATE-A.		
149500*	0A	R-COUNT-NAME	PIC X(3)	
149700*	0A	R-COUNT-NUM	PIC 9(3)	VALUE 999.
149900*	04	CLINIC-TOTAL		PIC 9(6).
150100*	04	PATIENT-TOTAL		PIC 9(12).
150300*	04	MEDICAID-TOTAL		PIC 9(12).
150500*	04	FEMALE-TOTAL		PIC 9(12).
150700*	04	MALE-TOTAL		PIC 9(12).
150900*	03	STATE-B.		
151100*	04	RACE.		
151300*	05	WHITE		PIC 9(10).
151500*	05	BLACK		PIC 9(10).
151700*	05	AMERICAN-INDIAN		PIC 9(10).
151900*	05	MEXICAN-AMERICAN		PIC 9(10).
152100*	05	ORIENTAL		PIC 9(10).
152300*	05	OTHER-RACE		PIC 9(10).
152500*	04	ETHNIC		PIC 9(10).
152700*	03	STATE-B2.		
152900*	04	MARRITAL-STATUS.		
153100*	05	MARRIED		PIC 9(10).
153300*	05	NEVER-MARRIED		PIC 9(10).
153500*	05	SEPARATED		PIC 9(10).
153700*	05	DIVORCED		PIC 9(10).
153900*	05	SPOUSE-DECEASED		PIC 9(10).
154100*	03	STATE-C05.		
154300*	04	AGE-TOTALS.		
154500*	05	A17-UNDER		PIC 9(5).
154700*	05	A17-25		PIC 8(5).
154900*	05	A25-35		PIC 8(5).
155100*	05	A35-OVER		PIC 9(5).
155300*	05	AVERAGE-AGE		PIC 9(2).
155500*	05	AGE-DUM		PIC X(42).
155700*	03	STATE-C.		
155900*	04	VISIT-TOTAL.		
156100*	05	VTOTAL		PIC 9(5).
156300*	05	SUPPLY-ON-SCHED		PIC 9(5).
156500*	05	UNSCHED-ANNUAL-CHECK		PIC 9(5).
156700*	05	INTAKE-TOTAL		PIC 9(5).
156750*	05	INTAKE-INTI-ANU-EXAM		PIC 9(5).
156760*	05	INTAKE-CCINSEING		PIC 9(5).
156900*	05	REVIS-ANNUAL-CHECK		PIC 9(5).
157100*	05	REVISIT		PIC 9(5).
157300*	05	SUPPLY-ON-UNSCHED		PIC 9(5).
157500*	05	UNSCHED-MCN-PROB		PIC 9(5).
157700*	03	STATE-C1.		
157900*	04	UNSCHED-PROBLEM		PIC 9(5).
158100*	04	UNSCHED-PROBLEM-REV		PIC 9(5).
158300*	04	PREG-TOTAL.		
158500*	05	TOTAL-PREG		PIC 9(5).
158700*	05	BORN-ALIVE		PIC 9(5).
158900*	05	LAST-DELIVERY.		
159100*	06	BORN-ALIVE-TERM		PIC 9(5).
159300*	06	BORN-ALIVE-PRE		PIC 9(5).
159500*	06	BORN-DEAD		PIC 9(5).
159700*	06	MIS-ABORT		PIC 9(5).
159900*	03	STATE-C2.		
160100*	06	NEVER-PREG		PIC 9(5).
160300*	06	PREG-OTHER		PIC 9(5).
160500*	06	UNKNOWN		PIC 9(5).
160700*	06	FETAL-DEATHS		PIC 9(5).
160900*	06	CHILDREN-NHW-ALIVE		PIC 9(5).
161100*	03	STATE-D.		
161300*	04	CONTRACEPTIVE-USE.		
161500*	05	PATIENTS-ONCE-USED		PIC 9(5).
161700*	05	METHOD-USED-MOST.		
161900*	06	NONE		PIC 9(5).
162100*	06	ORAL		PIC 9(5).
162300*	06	IUD		PIC 9(5).
162500*	06	DIAPHRAGM		PIC 9(5).

162700*	06 FOAM	PIC 9(5).	*
162900*	06 RYTHM	PIC 9(5).	*
163100*	06 CONDOM	PIC 9(5).	*
163300*	03 STATE-D1.		*
163500*	06 INJECTION	PIC 9(5).	*
163700*	06 STERILIZATION	PIC 9(5).	*
163750*	06 STER-THER	PIC 9(5).	*
163760*	06 STER-NON	PIC 9(5).	*
163900*	06 OTHER-CONTRA	PIC 9(5).	*
164100*	06 METHOD-NOT-KNOWN	PIC 9(5).	*
164300*	06 METHOD-PRESCRIBED-RY.		*
164500*	07 PRIV-CTOR	PIC 9(5).	*
164700*	07 PUB-CLINIC	PIC 9(5).	*
164900*	07 DRUGGIST	PIC 9(5).	*
165100*	07 OTHER	PIC 9(5).	*
165300*	03 STATE-E.		*
165500*	04 SERVICES-PROVIDED.		*
165600*	05 CONTRACEPTIVE-COUN	PIC 9(5).	*
166100*	05 INFERTILITY-COUN	PIC 9(5).	*
166300*	05 ABORTION-COUN	PIC 9(5).	*
166500*	05 SOCIAL-SER-COUN	PIC 9(5).	*
166700*	05 OTHER-COUN	PIC 9(5).	*
166900*	05 BLOOD-PRESSURE	PIC 9(5).	*
167100*	05 VD-PLDCC-TEST	PIC 9(5).	*
167300*	03 STATE-E1.		*
167500*	05 HCT-HGE-TEST	PIC 9(5).	*
167700*	05 BLOOD-TEST	PIC 9(5).	*
167900*	05 VDRL-TEST.		*
168100*	06 VDRL-TOTAL	PIC 9(5).	*
168300*	06 VDRL-TDS	PIC 9(5).	*
168500*	06 VDRL-NEG	PIC 9(5).	*
168700*	05 PAP-SMEAR.		*
168900*	06 PAP-TOTAL	PIC 9(5).	*
169100*	06 PAP-FCS	PIC 9(5).	*
169300*	06 PAP-NEG	PIC 9(5).	*
169500*	03 STATE-E2.		*
169700*	05 GC-CULTURE.		*
169900*	06 GC-TOTAL	PIC 9(5).	*
170100*	06 GC-FCS	PIC 9(5).	*
170300*	06 GC-NEG	PIC 9(5).	*
170500*	05 BREAST-TOTAL	PIC 9(5).	*
170700*	05 PELVIC-TOTAL	PIC 9(5).	*
170900*	05 URINALYSIS-TOT	PIC 9(5).	*
171100*	05 SICKLE-CELL-TEST.		*
171300*	06 SICKLE-TOTAL	PIC 9(5).	*
171500*	06 SICKLE-POS	PIC 9(5).	*
171700*	03 STATE-E3.		*
171900*	05 SICKLE-NEG	PIC 9(5).	*
172100*	05 STERILIZATION-TOT	PIC 9(5).	*
172300*	05 INFERTILITY-TOTAL	PIC 9(5).	*
172500*	05 PREGNANCY-TEST.		*
172700*	06 PREG-TEST-TOTAL	PIC 9(5).	*
172900*	06 PREG-FDS	PIC 9(5).	*
173100*	06 PREG-NEG	PIC 9(5).	*
173300*	05 OTHER-TEST	PIC 9(5).	*
173500*	03 STATE-F.		*
173700*	04 CONTRA-METHOD-AFTER-VISIT.		*
173900*	05 NO-METHOD	PIC 9(5).	*
174100*	05 ORAL-TOTAL	PIC 9(5).	*
174300*	05 IUD-TOTAL	PIC 9(5).	*
174500*	05 DIA-TOTAL	PIC 9(5).	*
174700*	05 FOAM-TOTAL	PIC 9(5).	*
174900*	05 RYTHM-TOTAL	PIC 9(5).	*
175100*	05 CONDOM-TOTAL	PIC 9(5).	*
175300*	05 INJECTION-TOTAL	PIC 9(5).	*
175500*	03 STATE-F1.		*
175700*	04 STERILIZA-TOTAL	PIC 9(5).	*
175900*	04 OTHER-CONTRA-TOTAL	PIC 9(5).	*
176100*	04 REASON-STER-METHOD.		*
176300*	05 PREG-PLAN-TOTAL	PIC 9(5).	*
176500*	05 PREG-LAPLAN-TOT	PIC 9(5).	*
176700*	05 SEEK-PREG-TOTAL	PIC 9(5).	*
176900*	05 MEDICAL-REASON-TOT	PIC 9(5).	*
177100*	05 OTHER-REASON-TOTAL	PIC 9(5).	*
177300*	03 STATE-G.		*
177500*	04 REFERRED-ELSEWHERE.		*
177700*	05 TOTAL-REFERRED	PIC 9(5).	*
177900*	05 SOC-SEE-TOTAL	PIC 9(5).	*
178100*	05 MED-SEE-TOTAL	PIC 9(5).	*
178300*	05 STERILIZATION-REF	PIC 9(5).	*
178500*	05 ABORTION-TOTAL	PIC 9(5).	*
178700*	05 INFERTIL-TREAT-TOT	PIC 9(5).	*

178900*	05	OTHER-REFERRED-TOTAL	PIC 9(5).	*
179100*	04	PATIENT-SPEN-BY.		*
179300*	05	PHYSICIAN-TOTAL	PIC 9(5).	*
179500*	03	STATE-G1.		*
179700*	05	P-H-N-TOTAL	PIC 9(5).	*
179900*	05	P-P-H-A-TOTAL	PIC 9(5).	*
180100*	05	NURSE-MIDWIFE-TOT	PIC 9(5).	*
180300*	05	L-P-N-TOTAL	PIC 9(5).	*
180500*	05	SOCIAL-SFR-TOTAL	PIC 9(5).	*
180700*	05	AIDE-TOTAL	PIC 9(5).	*
180900*	05	CLERK-TOTAL	PIC 9(5).	*
181100*	05	NUTRITIONIST-TOT	PIC 9(5).	*
181300*	03	STATE-G2.		*
181500*	05	OTHER-HANDLED-TOT	PIC 9(5).	*
181700*	03	STATE-H.		*
181900*	04	REFERRAL-SOURCE.		*
182100*	05	SELF-TOTAL	PIC 9(5).	*
182300*	05	OUTREACH-WORKER-TOT	PIC 9(5).	*
182500*	05	OTHER-FF-CLINIC-TOT	PIC 9(5).	*
182700*	05	HOSP-HEALTH-AGENCY-TOT	PIC 9(5).	*
182900*	05	PRIV-DCC-NURSE-TOTAL	PIC 9(5).	*
183100*	05	WELFARE-AGENCY-TOT	PIC 9(5).	*
183300*	05	ANOTHER-CLINIC-PAT-TOT	PIC 9(5).	*
183500*	05	FAM-FRIEND-TOT	PIC 9(5).	*
183700*	03	STATE-H1.		*
183900*	05	INTERADIC-NEWSPAPER-TOTAL	PIC 8(5).	*
184300*	05	REFERRED-BY-UNKNOWN-TOT	PIC 9(5).	*
184500*	03	STATE-I.		*
184700*	04	NEXT-APPOINTMENT-PUR.		*
184900*	05	SUPPLY-STRING-CHK-TOT	PIC 9(5).	*
185100*	05	ANNUAL-EXAM-TOTAL	PIC 9(5).	*
185300*	05	MEDICAL-PROR-TOTAL	PIC 9(5).	*
185500*	05	OTHER-APPOIN-TOTAL	PIC 9(5).	*
185700*	05	NO-NEXT-APPOIN-TOT	PIC 9(5).	*
185900*	04	REASON-FOE-DISCHARGE.		*
186100*	05	STERIL-APPOIN-TOTAL	PIC 9(5).	*
186300*	05	MENOPAUSE-TOTAL	PIC 9(5).	*
186500*	05	MEDICAL-REAS-TOTAL	PIC 9(5).	*
186700*	03	STATE-I1.		*
186900*	05	PATIENT-MOVED-TOTAL	PIC 9(5).	*
187100*	05	PATIENT-LOST-INTEREST-TOT	PIC 9(5).	*
187300*	05	PREC-DESIRED-TOTAL	PIC 9(5).	*
187500*	05	PREC-UNPLAN-TOTAL	PIC 9(5).	*
187700*	05	UNKNOWN-DISCHAR-REAS-TOT	PIC 9(5).	*
187900*	01	DIV-1.		*
188100*	02	COUNT-A OCCURS 10 TIMES.		*
188300*	05	R-COUNT-NAME	PIC X(3).	*
188500*	05	R-COUNTY-NUM	PIC 9(3).	*
188700*	05	CLINIC-TOTAL	PIC 9(6).	*
188900*	05	PATIENT-TOTAL	PIC 9(5).	*
189100*	05	MEDICAID-TOTAL	PIC 9(5).	*
189300*	05	FEMALE-TOTAL	PIC 9(5).	*
189500*	05	MALE-TOTAL	PIC 9(5).	*
189700*	01	DIV-2.		*
189900*	02	COUNT-B OCCURS 10 TIMES.		*
190100*	05	RACE.		*
190300*	06	WHITE	PIC 8(5).	*
190500*	06	BLACK	PIC 8(5).	*
190700*	06	AMERICAN-INDIAN	PIC 9(5).	*
190900*	06	MEXICAN-AMERICAN	PIC 9(5).	*
191100*	06	ORIENTAL	PIC 9(5).	*
191300*	06	OTHER-RACE	PIC 9(5).	*
191500*	01	DIV-3.		*
191700*	02	COUNT-B2 OCCURS 10 TIMES.		*
191900*	05	ETHNIC	PIC 9(5).	*
192100*	05	MARRITAL-STATUS.		*
192300*	06	MARRIED	PIC 9(5).	*
192500*	06	NEVER-MARRIED	PIC 9(5).	*
192700*	06	SEPARATED	PIC 9(5).	*
192900*	06	DIVORCED	PIC 9(5).	*
193100*	06	SPOUSE-DECEASED	PIC 9(5).	*
193300*	01	DIV-405.		*
193500*	02	COUNT-C05 OCCURS 10 TIMES.		*
193700*	05	A17-UNDER	PIC 9(5).	*
193900*	05	A17-25	PIC 9(5).	*
194100*	05	A25-35	PIC 9(5).	*
194300*	05	A35-OVER	PIC 9(5).	*
194500*	05	AVERAGE-AGE	PIC 9(2).	*
194700*	01	DIV-4.		*
194900*	02	COUNT-C OCCURS 10 TIMES.		*
195100*	05	VISIT-TOTAL.		*
195300*	06	VTOTAL	PIC 9(5).	*

195500*	06	SUPPLY-ON-SCHED	PIC 9(5).	*
195700*	06	UNSCHED-ANNUAL-CHECK	PIC 9(5).	*
195900*	06	INTAKE-TOTAL	PIC 9(5).	*
195950*	06	INTAKE-INTY-AMU-EXAM	PIC 9(5).	*
195970*	06	INTAKE-COUNSELING	PIC 9(5).	*
196100*	06	REVIS-ANNUAL-CHECK	PIC 9(5).	*
196300*	06	REVISTT	PIC 9(5).	*
196500*	06	SUPPLY-ON-UNSCHED	PIC 9(5).	*
196700*	06	UNSCHED-NON-PROR	PIC 9(5).	*
196900*	01	DIV-5.		*
197100*	02	COUNT-C1 OCCURS 10 TIMES.		*
197300*	05	UNSCHED-PROFLEM	PIC 9(5).	*
197500*	05	UNSCHED-PROFLEM-REV	PIC 9(5).	*
197700*	05	PREG-TOTAL.		*
197900*	06	TOTAL-PREG	PIC 9(5).	*
198100*	06	BORN-ALIVE	PIC 9(5).	*
198300*	06	LAST-DELIVERY.		*
198500*	07	BORN-ALIVE-TERM	PIC 9(5).	*
198700*	07	BORN-ALIVE-PRE	PIC 9(5).	*
198900*	07	BORN-DEAD	PIC 9(5).	*
199100*	07	MIS-ACERT	PIC 9(5).	*
199300*	01	DIV-6.		*
199500*	02	COUNT-C2 OCCURS 10 TIMES.		*
199700*	07	NEVER-PREG	PIC 9(5).	*
199900*	07	PREG-OTHER	PIC 9(5).	*
200100*	07	UNKNOWN	PIC 9(5).	*
200300*	07	FETAL-DEATHS	PIC 9(5).	*
200500*	07	CHILDREN-NOW-ALIVE	PIC 9(5).	*
200700*	01	DIV-7.		*
200900*	02	COUNT-D OCCURS 10 TIMES.		*
201100*	05	CONTRACEPTIVE-USE.		*
201300*	06	PATIENTS-ONCE-USED	PIC 9(5).	*
201500*	06	METHOD-USED-MOST.		*
201700*	07	NONE	PIC 9(5).	*
202100*	07	IUD	PIC 9(5).	*
202300*	07	DIAPHRAGM	PIC 9(5).	*
202500*	07	FOAM	PIC 9(5).	*
202700*	07	RYTHM	PIC 9(5).	*
202900*	07	CONDON	PIC 9(5).	*
203100*	01	DIV-8.		*
203300*	02	COUNT-D1 OCCURS 10 TIMES.		*
203500*	07	INJECTION	PIC 9(5).	*
203700*	07	STERILIZATION	PIC 9(5).	*
203900*	07	OTHER-CONTRA	PIC 9(5).	*
204100*	07	METHOD-NOT-KNOWN	PIC 9(5).	*
204300*	07	METHOD-PREScribed-RY.		*
204500*	08	PRIV-DOCTOR	PIC 9(5).	*
204700*	08	PUR-CLINIC	PIC 9(5).	*
204900*	08	DRUGGIST	PIC 9(5).	*
205100*	08	OTHER	PIC 9(5).	*
205300*	01	DIV-9.		*
205500*	02	COUNT-F OCCURS 10 TIMES.		*
205700*	05	SERVICES-PROVIDED.		*
205900*	06	CONTRACEP-COUN	PIC 9(5).	*
206100*	06	STERILIZA-COUN	PIC 9(5).	*
206300*	06	INFERTILI-COUN	PIC 9(5).	*
206500*	06	ABORTIFEN-COUN	PIC 9(5).	*
206700*	06	SOCIAL-SER-COUN	PIC 9(5).	*
206900*	06	OTHER-COUN	PIC 9(5).	*
207100*	06	BLOOD-PRESSURE	PIC 9(5).	*
207300*	06	VD-BLOOD-TEST	PIC 9(5).	*
207500*	01	DIV-10.		*
207700*	02	COUNT-F1 OCCURS 10 TIMES.		*
207900*	06	HCT-HGE-TEST	PIC 9(5).	*
208100*	06	BLOOD-TEST	PIC 9(5).	*
208300*	06	VDRL-TEST.		*
208500*	07	VDRL-TOTAL	PIC 9(5).	*
208700*	07	VDRL-FDS	PIC 9(5).	*
208900*	07	VDRL-NEG	PIC 9(5).	*
209100*	06	PAP-SMEAR.		*
209300*	07	PAP-TOTAL	PIC 9(5).	*
209500*	07	PAP-FDS	PIC 9(5).	*
209700*	07	PAP-NEG	PIC 9(5).	*
209900*	01	DIV-11.		*
210100*	02	COUNT-F2 OCCURS 10 TIMES.		*
210300*	06	GC-CULTURE.		*
210500*	07	GC-TOTAL	PIC 9(5).	*
210700*	07	GC-POS	PIC 9(5).	*
210900*	07	GC-NEG	PIC 9(5).	*
211100*	06	BREAST-TOTAL	PIC 9(5).	*
211300*	06	PELVIC-TOTAL	PIC 9(5).	*
211500*	06	URINALYSIS-TOT	PIC 9(5).	*

211700*	06	SICKLE-CELL-TEST.	
211900*	07	SICKLE-TOTAL	PIC 9(5).
212100*	07	SICKLE-POS	PIC 9(5).
212300*	01	DIV-12.	
212500*	02	COUNT-F3 OCCURS 10 TIMES.	
212700*	06	SICKLE-NFG	PIC 9(5).
212900*	06	STERILIZATION-TOT	PIC 9(5).
212950*	06	STEP-TFR	PIC 9(5).
212960*	06	STEP-NCA	PIC 9(5).
213300*	06	FERTILITY-TOTAL	PIC 9(5).
213500*	07	PREG-TEST-TOTAL	PIC 9(5).
213700*	07	PREG-FNS	PIC 9(5).
213900*	07	PREG-NEG	PIC 9(5).
214100*	06	OTHER-TEST	PIC 9(5).
214300*	01	DIV-13.	
214500*	02	COUNT-F OCCURS 10 TIMES.	
214700*	05	CONTRA-METHOD-AFTER-VISIT.	
214900*	06	NO-METHOD	PIC 9(5).
215100*	06	ORAL-TOTAL	PIC 9(5).
215300*	06	IUD-TOTAL	PIC 9(5).
215500*	06	DIA-TOTAL	PIC 9(5).
215700*	06	FOAM-TOTAL	PIC 9(5).
215900*	06	RYTHM-TOTAL	PIC 9(5).
216100*	06	CONDOM-TOTAL	PIC 9(5).
216300*	06	INJECTION-TOTAL	PIC 9(5).
216500*	01	DIV-14.	
216700*	02	COUNT-F1 OCCURS 10 TIMES.	
216900*	05	STERILIZA-TOTAL	PIC 9(5).
217100*	05	OTHER-CONTRA-TOTAL	PIC 9(5).
217300*	05	REASON-STEP-METHOD.	
217500*	06	PREG-PLAN-TOTAL	PIC 9(5).
217700*	06	PREG-LAPLAN-TOT	PIC 9(5).
217900*	06	SEEK-PEFG-TOTAL	PIC 9(5).
218100*	06	MEDICAL-REASON-TOT	PIC 9(5).
218300*	06	OTHER-REASON-TOTAL	PIC 9(5).
218500*	01	DIV-15.	
218700*	02	COUNT-G OCCURS 10 TIMES.	
218900*	05	REFERRED-ELSEWHERE.	
219100*	06	TOTAL-REFERRED	PIC 9(5).
219300*	06	SOC-SEE-TOTAL	PIC 9(5).
219500*	06	MED-SEE-TOTAL	PIC 9(5).
219700*	06	STERILIZATION-REF	PIC 9(5).
219900*	06	ABORTION-TOTAL	PIC 9(5).
220100*	06	INFERTIL-TREAT-TOT	PIC 9(5).
220300*	06	OTHER-REFERRED-TOTAL	PIC 9(5).
220500*	05	PATIENT-SEEN-BY	
220700*	06	PHYSICIAN-TOTAL	PIC 9(5).
220900*	01	DIV-16.	
221100*	02	COUNT-G1 OCCURS 10 TIMES.	
221300*	06	P-H-N-TOTAL	PIC 9(5).
221500*	06	F-P-H-N-TOTAL	PIC 9(5).
221700*	06	NURSE-WIDWIFE-TOT	PIC 9(5).
221900*	06	L-P-N-TOTAL	PIC 9(5).
222100*	06	SOCIAL-SFR-TOTAL	PIC 9(5).
222300*	06	AIDE-TOTAL	PIC 9(5).
222500*	06	CLERK-TOTAL	PIC 9(5).
222700*	06	NUTRITIONIST-TOT	PIC 9(5).
222800*	01	DIV-1605.	
222850*	02	COUNT-G2 OCCURS 10 TIMES.	
222900*	06	OTHER-HANDLED-TOT	PIC 9(5).
223100*	01	DIV-17.	
223300*	02	COUNT-H OCCURS 10 TIMES.	
223500*	05	REFERRAL-SOURCE.	
223700*	06	SELF-TOTAL	PIC 9(5).
223900*	06	OUTREACH-WORKER-TOT	PIC 9(5).
224100*	06	OTHER-FF-CLINIC-TOT	PIC 9(5).
224300*	06	HOSP-HEALTH-AGENCY-TOT	PIC 9(5).
224500*	06	PRIV-DOC-NURSE-TOTAL	PIC 9(5).
224700*	06	WELFARE-AGENCY-TOT	PIC 9(5).
224900*	06	ANOTHER-CLINIC-PAT-TOT	PIC 9(5).
225100*	06	FAM-FRIEND-TOT	PIC 9(5).
225300*	01	DIV-18.	
225500*	02	COUNT-H1 OCCURS 10 TIMES.	
225700*	06	TV-RADII-NEWSPAPER-TOT	PIC 9(5).
225900*	06	REFERRED-BY-OTHER-TOTAL	PIC 9(5).
226100*	06	REFERRED-BY-UNKNOWN-TOT	PIC 9(5).
226300*	01	DIV-19.	
226500*	02	COUNT-I OCCURS 10 TIMES.	
226700*	05	NEXT-APPOINTMENT-PLA.	
226900*	06	SUPPLY-STRING-CHK-TOT	PIC 9(5).
227100*	06	ANNUAL-EXAM-TOTAL	PIC 9(5).
227300*	06	MEDICAL-PROR-TOTAL	PIC 9(5).

```

227500* 06 OTHER-APPOINT-TOTAL PIC 9(5).
227700* 06 NO-NEXT-APPOINT-TOT PIC 9(5).
227900* 05 REASON-FOE-DISCHARGE.
228100* 06 STERIL-APPOINT-TOTAL PIC 9(5).
228300* 06 MENOPAUSE-TOTAL PIC 9(5).
228500* 06 MEDICAL-REAS-TOTAL PIC 9(5).
228700* 01 DIV-20.
228900* 02 COUNT-I1 OCCURS 10 TIMES.
229100* 06 PATIENT-MOVED-TOTAL PIC 9(5).
229300* 06 PATIENT-LOST-INTEREST-TOT PIC 9(5).
229500* 06 PREG-DESIRE-D-TOTAL PIC 9(5).
229700* 06 PREG-INFLAN-TOTAL PIC 9(5).
229900* 06 UNKNOWN-DISCHARGE-REAS-TOT PIC 9(5).
230100* 01 TEN PIC 99 VALUE 10.
230300* 01 C-SPLIT.
230500* 02 C-1-SPLIT PIC 99.
230700* 02 C-2-SPLIT PIC 99.
230900* 01 RESTART-OK PIC XX.
231100* 01 HNF PIC 9 VALUE 1.
231300* 01 Z PIC 9(2) VALUE 00.
231700* 01 AGE PIC 99 COMP.
231900* 01 HOLD-DATE.
232100* 02 DATE-STORE OCCURS 10 TIMES PIC 9(5) COMP.
232300* 01 STATE-DATE-STORE PIC 9(7) COMP.
232500* 01 REG-DATE-STORE PIC 9(7) COMP.
232900* 01 U-ROUND PIC 999 VALUE 10.
233100* 01 L-ROUND PIC 999 VALUE 0.
233300* 01 END-COUNTY PIC 999 VALUE 999.
233500* 01 COUNT-TRACK PIC X(3).
233700* 01 YHTS-YEAR PIC 99.
233800* 01 COUNTY-A-LOOK PIC X(80).
233900* PROCEDURE DIVISION.
234100* RESTART SECTION.
234300* RESTART.
234500* CHECK OPERATOR.
234700* DISPLAY "RESTART?" UPON CONSOLE.
234900* ACCEPT RESTART-OK FROM CONSOLE.
235100* IF RESTART-OK IS NOT EQUAL TO "OK"
235300* OPEN OUTPUT RESTART-FILE; GO TO OPEN-TAPE.
235500* OPEN INPUT COUNTY-MASTER.
235700* NEW-READER.
235900* READ COUNTY-MASTER AT END GO TO SWITCH-CONTROL.
236000* MOVE COUNTY-A TO COUNTY-A-LOOK.
236100* IF COUNTY-NUM IS NOT NUMERIC OR IF COUNTY-NUM
236300* EQUALS 0 OR IF COUNTY-NUM IS GREATER THAN 160
236500* AND COUNTY-NUM IS LESS THAN 998 GO TO
236700* RESTART-TAPE.
236900* IF C-COUNT-NAME EQUALS "###" GO TO RESTART-TAPE.
237100* MOVE COUNTY-NUM TO COUNTY-TRACK.
237300* MOVE COUNTY-NAME TO COUNT-TRACK.
237700* ADD L-BOUND-TEN GIVING U-ROUND.
237800* PERFORM FORWARD-TAPE 21 TIMES.
237900* GO TO NEW-READER.
237905* DISPLAY COUNTY-A-LOOK.
237910* SWITCH-CONTROL.
237920* IF COUNTY-TRACK EQUALS 999 GO TO REG-DUMP.
237930* GO TO RESTART-TAPE.
238000* FORWARD-TAPE.
238010* READ COUNTY-MASTER AT END GO TO CANT-RECOVER.
238100* RESTART-TAPE.
238300* CLOSE HERE COUNTY-MASTER WITH NO REWIND.
238500* DISPLAY "LAST COUNTY DONE", L-BOUND UPON CONSOLE.
238900* OPEN INPUT RESTART-FILE.
239100* READ RESTART-FILE AT END GO TO CANT-RECOVER.
239300* MOVE RESTART-A TO STATE-A.
239500* READ RESTART-FILE AT END GO TO CANT-RECOVER.
239700* MOVE RESTART-R TO STATE-R.
239900* READ RESTART-FILE AT END GO TO CANT-RECOVER.
240100* MOVE RESTART-R2 TO STATE-R2.
240300* READ RESTART-FILE AT END GO TO CANT-RECOVER.
240500* MOVE RESTART-C05 TO STATE-C05.
240700* READ RESTART-FILE AT END GO TO CANT-RECOVER.
240900* MOVE RESTART-C TO STATE-C.
241100* READ RESTART-FILE AT END GO TO CANT-RECOVER.
241300* MOVE RESTART-C1 TO STATE-C1.
241500* READ RESTART-FILE AT END GO TO CANT-RECOVER.
241700* MOVE RESTART-C2 TO STATE-C2.
241900* READ RESTART-FILE AT END GO TO CANT-RECOVER.
242100* MOVE RESTART-D TO STATE-D.
242300* READ RESTART-FILE AT END GO TO CANT-RECOVER.
242500* MOVE RESTART-D1 TO STATE-D1.
242700* READ RESTART-FILE AT END GO TO CANT-RECOVER.

```

```

242000* MOVE RESTART-F TO STATE-F.
243100* READ RESTART-FILE AT END GO TO CANT-RECOVER.
243300* MOVE RESTART-F1 TO STATE-F1.
243500* READ RESTART-FILE AT END GO TO CANT-RECOVER.
243700* MOVE RESTART-F2 TO STATE-F2.
243900* READ RESTART-FILE AT END GO TO CANT-RECOVER.
244100* MOVE RESTART-F3 TO STATE-F3.
244300* READ RESTART-FILE AT END GO TO CANT-RECOVER.
244500* MOVE RESTART-F TO STATE-F.
244700* READ RESTART-FILE AT END GO TO CANT-RECOVER.
244900* MOVE RESTART-F1 TO STATE-F1.
245100* READ RESTART-FILE AT END GO TO CANT-RECOVER.
245300* MOVE RESTART-G TO STATE-G.
245500* READ RESTART-FILE AT END GO TO CANT-RECOVER.
245700* MOVE RESTART-G1 TO STATE-G1.
245900* READ RESTART-FILE AT END GO TO CANT-RECOVER.
246100* MOVE RESTART-G2 TO STATE-G2.
246300* READ RESTART-FILE AT END GO TO CANT-RECOVER.
246500* MOVE RESTART-H TO STATE-H.
246700* READ RESTART-FILE AT END GO TO CANT-RECOVER.
246900* MOVE RESTART-H1 TO STATE-H1.
247100* READ RESTART-FILE AT END GO TO CANT-RECOVER.
247300* MOVE RESTART-I TO STATE-I.
247500* READ RESTART-FILE AT END GO TO CANT-RECOVER.
247700* MOVE RESTART-I1 TO STATE-I1.
247800* READ RESTART-FILE AT END GO TO CANT-RECOVER.
247900* MOVE RESTART-A TO REG-A.
248100* READ RESTART-FILE AT END GO TO CANT-RECOVER.
248300* MOVE RESTART-B TO REG-B.
248500* READ RESTART-FILE AT END GO TO CANT-RECOVER.
248700* MOVE RESTART-R2 TO REG-R2.
248900* READ RESTART-FILE AT END GO TO CANT-RECOVER.
249100* MOVE RESTART-COS TO REG-COS.
249300* READ RESTART-FILE AT END GO TO CANT-RECOVER.
249500* MOVE RESTART-C TO REG-C.
249700* READ RESTART-FILE AT END GO TO CANT-RECOVER.
249900* MOVE RESTART-C1 TO REG-C1.
250100* READ RESTART-FILE AT END GO TO CANT-RECOVER.
250300* MOVE RESTART-C2 TO REG-C2.
250500* READ RESTART-FILE AT END GO TO CANT-RECOVER.
250700* MOVE RESTART-D TO REG-D.
250900* READ RESTART-FILE AT END GO TO CANT-RECOVER.
251100* MOVE RESTART-D1 TO REG-D1.
251300* READ RESTART-FILE AT END GO TO CANT-RECOVER.
251500* MOVE RESTART-E TO REG-E.
251700* READ RESTART-FILE AT END GO TO CANT-RECOVER.
251900* MOVE RESTART-F1 TO REG-F1.
252100* READ RESTART-FILE AT END GO TO CANT-RECOVER.
252300* MOVE RESTART-F2 TO REG-F2.
252500* READ RESTART-FILE AT END GO TO CANT-RECOVER.
252700* MOVE RESTART-E3 TO REG-E3.
252900* READ RESTART-FILE AT END GO TO CANT-RECOVER.
253100* MOVE RESTART-F TO REG-F.
253300* READ RESTART-FILE AT END GO TO CANT-RECOVER.
253500* MOVE RESTART-F1 TO REG-F1.
253700* READ RESTART-FILE AT END GO TO CANT-RECOVER.
253900* MOVE RESTART-F1 TO REG-F1.
254100* READ RESTART-FILE AT END GO TO CANT-RECOVER.
254300* MOVE RESTART-G1 TO REG-G1.
254500* READ RESTART-FILE AT END GO TO CANT-RECOVER.
254700* MOVE RESTART-G2 TO REG-G2.
254900* READ RESTART-FILE AT END GO TO CANT-RECOVER.
255100* MOVE RESTART-H TO REG-H.
255300* READ RESTART-FILE AT END GO TO CANT-RECOVER.
255500* MOVE RESTART-H1 TO REG-H1.
255700* READ RESTART-FILE AT END GO TO CANT-RECOVER.
255900* MOVE RESTART-I TO REG-I.
256100* READ RESTART-FILE AT END GO TO CANT-RECOVER.
256300* MOVE RESTART-I1 TO REG-I1.
256500* READ RESTART-FILE AT END GO TO CANT-RECOVER.
256700* MOVE R-DATE-STORE(1) TO DATE-STORE(1); MOVE R-DATE
256900* -STORE(2) TO DATE-STORE(2); MOVE R-DATE-STORE(3) TO
257100* DATE-STORE(3); MOVE R-DATE-STORE(4) TO DATE-STORE(4);
257300* MOVE R-DATE-STORE(5) TO DATE-STORE(5); MOVE R-DATE-STORE(6)
257500* TO DATE-STORE(6); MOVE R-DATE-STORE(7) TO DATE-STORE(7);
257700* MOVE R-DATE-STORE(8) TO DATE-STORE(8); MOVE R-DATE-STORE(9)
257900* TO DATE-STORE(9); MOVE R-DATE-STORE(10) TO DATE-STORE(10).
258100* MOVE R-STATE-DATE-STORE TO STATE-DATE-STORE; MOVE
258300* R-REG-DATE-STORE TO REG-DATE-STORE.
258500* CLOSE RESTART-FILE; OPEN OUTPUT RESTART-FILE.
258700* DISPLAY "SUCCESSFUL RESTART".
258900* IF COUNTY-TRACK EQUALS 999 AND COUNT-TRACK
259001*

```

258903* EQUALS "GA " GO TO COUNT-CONTROL.
258950* DISPLAY "STARTING NOW AT COUNTY#"; L-ROUND UPON CONSOLE.
259500* GO TO RESET-TAPE.
259700* CANT-RECOVER.
259900* DISPLAY "RECOVER ATTEMPT FAILED. SORRY"
260100* UPON CONSOLE; GO TO FOJ.
260300* LOAD-TAPES SECTION.
260500* OPEN-TAPE.
260700* OPEN INPUT COMLINE; OPEN OUTPUT COMLINE.
260900* OPEN OUTPUT COUNTY-MASTER.
261100* X-OUT.
261300* MOVE "ALL "# TO COUNTY-A.
261500* PERFORM X-WRITE-OUT 50000 TIMES.
261700* X-WRITE-OUT.
261900* WRITE COUNTY-A.
262100* GET-READY.
262300* CLOSE COUNTY-MASTER; OPEN OUTPUT COUNTY-MASTER.
262500* ALA-TAPE.
262700* MOVE "ALABAMA TAPE PLEASE" TO OPERATOR-MESSAGE.
262900* DISPLAY OPERATOR-MESSAGE UPON CONSOLE; ACCEPT O-RESPONSE
263100* FROM CONSOLE.
263300* IF O-RESPONSE EQUALS "OK" MOVE "ALA" TO
263500* COUNT-TRACK; GO TO FILE-READY.
263700* GA-TAPE.
263900* MOVE "GEORGIA TAPE PLEASE" TO OPERATOR-MESSAGE.
264100* DISPLAY OPERATOR-MESSAGE UPON CONSOLE; ACCEPT O-RESPONSE
264300* FROM CONSOLE.
264500* IF O-RESPONSE EQUALS "OK" MOVE "GA " TO
264700* COUNT-TRACK; GO TO FILE-READY.
264900* FLA-TAPE.
265100* MOVE "FLORIDA TAPE PLEASE" TO OPERATOR-MESSAGE.
265300* DISPLAY OPERATOR-MESSAGE UPON CONSOLE; ACCEPT O-RESPONSE
265500* FROM-RESPONSE EQUALS "OK" MOVE "FLA" TO
265900* COUNT-TRACK; GO TO FILE-READY.
266100* KEN-TAPE.
266300* MOVE "KENTUCKY TAPE PLEASE" TO OPERATOR-MESSAGE.
266500* DISPLAY OPERATOR-MESSAGE UPON CONSOLE; ACCEPT O-RESPONSE
266700* FROM CONSOLE.
266900* IF O-RESPONSE EQUALS "OK" MOVE "KEN" TO
267100* COUNT-TRACK; GO TO FILE-READY.
267300* MIS-TAPE.
267500* MOVE "MISSISSIPPI TAPE PLEASE" TO OPERATOR-MESSAGE.
267700* DISPLAY OPERATOR-MESSAGE UPON CONSOLE; ACCEPT O-RESPONSE
267900* FROM CONSOLE.
268100* IF O-RESPONSE EQUALS "OK" MOVE "MIS" TO
268300* COUNT-TRACK; GO TO FILE-READY.
268500* NC-TAPE.
268700* MOVE "NORTH CAROLINA TAPE PLEASE" TO OPERATOR-MESSAGE.
268900* DISPLAY OPERATOR-MESSAGE UPON CONSOLE; ACCEPT O-RESPONSE
269100* FROM CONSOLE.
269300* IF O-RESPONSE EQUALS "OK" MOVE "NC " TO
269500* COUNT-TRACK; GO TO FILE-READY.
269700* SC-TAPE.
269900* MOVE "SOUTH CAROLINA TAPE PLEASE" TO OPERATOR-MESSAGE.
270100* DISPLAY OPERATOR-MESSAGE UPON CONSOLE; ACCEPT O-RESPONSE
270300* FROM CONSOLE.
270500* IF O-RESPONSE EQUALS "OK" MOVE "SC " TO
270700* COUNT-TRACK; GO TO FILE-READY.
270900* TEN-TAPE.
271100* MOVE "TENNESSE TAPE PLEASE" TO OPERATOR-MESSAGE.
271300* DISPLAY OPERATOR-MESSAGE UPON CONSOLE; ACCEPT O-RESPONSE
271500* FROM CONSOLE.
271700* IF O-RESPONSE EQUALS "OK" MOVE "TEN" TO
271900* COUNT-TRACK; GO TO FILE-READY.
272100* GO TO STATE-WRITE.
272300* SPACE-TAPE.
272500* READ DETAILED-MASTER AT END GO TO R-TAPE.
272700* READ DETAILED-MASTER AT END GO TO R-TAPE.
272900* READ DETAILED-MASTER AT END GO TO R-TAPE.
273100* READ DETAILED-MASTER AT END GO TO R-TAPE.
273300* READ DETAILED-MASTER AT END GO TO R-TAPE.
273500* ESCAPE-TAPE.
273700* GO TO MASTER-SCAN.
273900* RESET-TAPE.
274100* OPEN INPUT DETAILED-MASTER.
274300* MOVE PATIENT-TOTAL OF REG-TOTALS TO NUM.
274500* PERFORM SPACE-TAPE NUM TIMES.
274700* MOVE R-COUNT-NAME OF STATE-A TO COUNT-TRACK.
274900* GO TO MASTER-SCAN.
275100* FILE-READY.
275300* OPEN INPUT DETAILED-MASTER.

```

275500*MASTER-SCAN.
275700* READ DETAILED-MASTER AT END GO TO R-TAPE.
275900*INDEXER.
276100* IF COUNTY-NUMBER IS LESS THAN L-ROUND GO
276300* TO SPACE-TAPE.
276350* IF COUNTY-NUMBER EQUALS L-ROUND GO TO SPACE-TAPE.
276500* IF COUNTY-NUMBER IS GREATER THAN U-ROUND
276700* GO TO SPACE-TAPE.
276900* MOVE COUNTY-NUMBER TO C-SPLIT.
377300* MOVE EQUALS AT AFF X;10 GIVING X.
277500* MOVE COUNTY-NUMBER TO COUNTY-TRACK;
277700* IF COUNT-TRACK IS NOT EQUAL TO COUNT-NAME
277900* OF DETAILED-MASTER GO TO WRONG-TAPE.
278100* ADD ONE TO PATIENT-TOTAL OF STATE-TOTALS.
278300* GO TO A-TALLY.
278500*WRONG-TAPE.
278700* MOVE "WRONG TAPE" TO OPERATOR-MESSAGE;DISPLAY
278900* OPERATOR-MESSAGE UPON CONSOLE.
279100* ACCEPT O-RESPONSE FROM CONSOLE;IF O-RESPONSE
279300* EQUALS "CI" CLOSE DETAILED-MASTER;GO TO CHECK-TAPE.
279500* IF O-RESPONSE EQUALS "SR" PERFORM SPACE-TAPE;
279700* GO TO MASTER-SCAN.
279900* IF O-RESPONSE EQUALS "GU" CLOSE DETAILED-MASTER
279901* WITH RELEASE;
280100* IF COUNT-TRACK EQUALS "ALA" GO TO ALA-TAPE;
280300* IF COUNT-TRACK EQUALS "FLA" GO TO FLA-TAPE;
280500* IF COUNT-TRACK EQUALS "GA " GO TO GA-TAPE;
280700* IF COUNT-TRACK EQUALS "KEN" GO TO KEN-TAPE;
280900* IF COUNT-TRACK EQUALS "MIS" GO TO MIS-TAPE;
281100* IF COUNT-TRACK EQUALS "NC " GO TO NC-TAPE;
281300* IF COUNT-TRACK EQUALS "SC " GO TO SC-TAPE;
281500* IF COUNT-TRACK EQUALS "TEN" GO TO TEN-TAPE.
281700* DISPLAY "WRONG RESPONSE..SHOULD BE CT,SR,OR GU" UPON CONSOLE.
281900* GO TO WRONG-TAPE.
282100*CHECK-TAPE.
282300* OPEN INPUT DETAILED-MASTER.
282500*READ-CHECK.
282700* READ DETAILED-MASTER AT END GO TO FDJ.
282900* IF Z IS GREATER THAN 20 GO TO WRONG-TAPE.
283100* IF COUNT-NAME OF DETAILED-MASTER IS NOT EQUAL
283300* TO COUNT-TRACK ADD ONE,Z GIVING Z.
283700* IF COUNT-NAME OF DETAILED-MASTER IS NOT EQUAL
283900* TO COUNT-TRACK GO TO READ-CHECK.
284100* DISPLAY "TAPE OK. PROCEEDING. SDRY";
284300* ADD ONE TO PATIENT-TOTAL OF STATE-TOTALS.
284500* PERFORM INDEXER;GO TO A-TALLY.
284700*COUNT-WRITER.
284900* MOVE Z TO X.
285100* PERFORM COUNTY-WRITE.
285300*COUNT-WRITER.
285500* MOVE Z TO X.
285700* PERFORM COUNT-WRITE.
285800*COUNT-CONTROL.
285900* IF COUNT-TRACK EQUALS "ALA" GO TO GA-TAPE.
286100* IF COUNT-TRACK EQUALS "FLA" GO TO KEN-TAPE.
286300* IF COUNT-TRACK EQUALS "GA " GO TO FLA-TAPE.
286500* IF COUNT-TRACK EQUALS "KEN" GO TO MIS-TAPE.
286700* IF COUNT-TRACK EQUALS "MIS" GO TO NC-TAPE.
286900* IF COUNT-TRACK EQUALS "NC " GO TO SC-TAPE.
287100* IF COUNT-TRACK EQUALS "SC " GO TO TEN-TAPE.
287300* IF COUNT-TRACK EQUALS "TEN" GO TO STATE-WRITE.
287500*COUNT-WRITE SECTION.
287700*LOOP-1.
287900* ADD ONE,X GIVING Y.
288100* COMPUTE DATE-STORE(X)=DATE-STORE(X)/PATIENT-TOTAL
288300* OF COUNT-A(X).
288500* MOVE DATE-STORE(X) TO AVERAGE-AGE OF COUNT-CO5(X).
288700*C-WRITE.
288900* MOVE COUNT-TRACK TO R-COUNT-NAME OF
289100* COUNT-A(X).
289300* ADD Y,L-ROUND GIVING COUNTY-TRACK.
389500* MOVE COUNTY-TRACK TO R-COUNTY-NUM OF COUNT-A(X).
289700* MOVE COUNT-B(X) TO COUNTY-B;WRITE COUNTY-B.
290100* MOVE COUNT-B2(X) TO COUNTY-B2;WRITE COUNTY-B2.
290300* MOVE COUNT-CO5(X) TO COUNTY-CO5;WRITE COUNTY-CO5.
290500* MOVE COUNT-C(X) TO COUNTY-C;WRITE COUNTY-C.
290700* MOVE COUNT-C1(X) TO COUNTY-C1;WRITE COUNTY-C1.
290900* MOVE COUNT-C2(X) TO COUNTY-C2;WRITE COUNTY-C2.
291100* MOVE COUNT-D(X) TO COUNTY-D;WRITE COUNTY-D.
291300* MOVE COUNT-D1(X) TO COUNTY-D1;WRITE COUNTY-D1.

```



```

291500* MOVE COUNT-F(X) TO COUNTY-F;WRITE COUNTY-F.
291700* MOVE COUNT-E1(X) TO COUNTY-E1;WRITE COUNTY-F1.
291900* MOVE COUNT-F2(X) TO COUNTY-E2;WRITE COUNTY-E2.
292100* MOVE COUNT-F3(X) TO COUNTY-E3;WRITE COUNTY-E3.
292300* MOVE COUNT-F(X) TO COUNTY-F;WRITE COUNTY-F.
292500* MOVE COUNT-F1(X) TO COUNTY-F1;WRITE COUNTY-F1.
292700* MOVE COUNT-G(X) TO COUNTY-G;WRITE COUNTY-G.
292900* MOVE COUNT-G1(X) TO COUNTY-G1;WRITE COUNTY-G1.
293000* MOVE COUNT-G2(X) TO COUNTY-G2;WRITE COUNTY-G2.
293100* MOVE COUNT-H(X) TO COUNTY-H;WRITE COUNTY-H.
293300* MOVE COUNT-H1(X) TO COUNTY-H1;WRITE COUNTY-H1.
293500* MOVE COUNT-I(X) TO COUNTY-I;WRITE COUNTY-I.
293700* MOVE COUNT-I1(X) TO COUNTY-I1;WRITE COUNTY-I1.
293900* MOVE ZEROS TO COUNT-A(X).
294100* MOVE ZEROS TO COUNT-R(X).
294300* MOVE ZEROS TO COUNT-R2(X).
294500* MOVE ZEROS TO COUNT-C05(X).
294600* MOVE ZEROS TO COUNT-F(X).
295100* MOVE ZEROS TO COUNT-C2(X).
295300* MOVE ZEROS TO COUNT-D(X).
295500* MOVE ZEROS TO COUNT-D1(X).
295700* MOVE ZEROS TO COUNT-F(X).
295900* MOVE ZEROS TO COUNT-F1(X).
296100* MOVE ZEROS TO COUNT-F2(X).
296300* MOVE ZEROS TO COUNT-F3(X).
296500* MOVE ZEROS TO COUNT-F(X).
296700* MOVE ZEROS TO COUNT-F1(X).
296900* MOVE ZEROS TO COUNT-G(X).
297100* MOVE ZEROS TO COUNT-G1(X).
297300* MOVE ZEROS TO COUNT-H(X).
297500* MOVE ZEROS TO COUNT-H1(X).
297700* MOVE ZEROS TO COUNT-T(X).
297900* MOVE ZEROS TO COUNT-T1(X).
298100* IF X IS EQUAL TO 10 GO TO C-END.
298300* GO TO LOOP-1.
298500* C-END.
298700* DATA-TABULATION SECTION.
298900* A-TALLY.
299100* READ DETAILED-MASTER AT END GO TO R-TAPE.
299300* ADD ONE TO PATIENT-TOTAL OF REG-TOTALS.
299500* ADD ONE TO PATIENT-TOTAL OF COUNT-A(X).
299700* IF CLINIC-NUMBER IS GREATER THAN CLINIC-TOTAL OF
299900* COUNT-A(X) MOVE
300100* CLINIC-NUMBER TO CLINIC-TOTAL OF COUNT-A(X).
300300* IF MEDICAID-REGISTERED EQUALS "Y" ADD ONE TO
300500* MEDICAID-TOTAL OF COUNT-A(X),MEDICAID-TOTAL OF
300700* STATE-TOTALS,MEDICAID-TOTAL OF REG-TOTALS.
300900* IF SFX EQUALS "F" ADD ONE TO FEMALE-TOTAL OF COUNT
301100* --A(X),FEMALE-TOTAL OF STATE-TOTALS,FEMALE-TOTAL
301300* OF REG-TOTALS.
301500* IF SFX EQUALS "M" ADD ONE TO MALE-TOTAL OF COUNT
301700* --A(X),MALE-TOTAL OF STATE-TOTALS,MALE-TOTAL
301900* OF REG-TOTALS.
302100* IF M-RACE EQUALS 1 ADD ONE TO WHITE OF COUNT-B(X),
302300* WHITE OF STATE-TOTALS,WHITE OF REG-TOTALS.
302500* IF M-RACE EQUALS 2 ADD ONE TO BLACK OF COUNT-B(X),
302700* BLACK OF STATE-TOTALS,BLACK OF REG-TOTALS.
302900* IF M-RACE EQUALS 3 ADD ONE TO AMERICAN-INDIAN OF COUNT
303100* --B(X),AMERICAN-INDIAN OF STATE-TOTALS,AMERICAN-
303300* -INDIAN OF REG-TOTALS.
303500* IF M-RACE EQUALS 4 ADD ONE TO MEXICAN-AMERICAN OF COUNT
303700* --B(X),MEXICAN-AMERICAN OF STATE-TOTALS,MEXICAN-
303900* -AMERICAN OF REG-TOTALS.
304100* IF M-RACE EQUALS 5 ADD ONE TO ORIENTAL OF COUNT
304300* --B(X),ORIENTAL OF STATE-TOTALS,ORIENTAL
304500* OF REG-TOTALS.
304700* IF M-RACE EQUALS 6 ADD ONE TO OTHER-RACE OF COUNT
304900* --B(X),OTHER-RACE OF STATE-TOTALS,OTHER-RACE
305100* OF REG-TOTALS.
305300* IF M-ETHNIC EQUALS "Y" ADD ONE TO ETHNIC OF COUNT
305500* --B2(Y),ETHNIC OF STATE-TOTALS,ETHNIC OF REG-TOTALS.
305700* IF M-MARRITAL-STATUS EQUALS 1 ADD ONE TO MARRIED OF COUNT
305900* --B2(Y),MARRIED OF STATE-TOTALS,MARRIED OF
306100* REG-TOTALS.
306300* IF M-MARRITAL-STATUS EQUALS 2 ADD ONE TO NEVER-MARRIED OF
306500* COUNT-B2(X),NEVER-MARRIED OF STATE-TOTALS,NEVER-MARRIED
306700* OF REG-TOTALS.
306900* IF M-MARRITAL-STATUS EQUALS 3 ADD ONE TO SEPARATED OF
307100* COUNT-B2(X),SEPARATED OF STATE-TOTALS,SEPARATED OF
307300* REG-TOTALS.
307500* IF M-MARRITAL-STATUS EQUALS 4 ADD ONE TO DIVORCED OF
307700* COUNT-B2(X),DIVORCED OF STATE-TOTALS,DIVORCED OF

```

```

307900* REG-TOTALS.
308100* IF M-MARTIAL-STATUS EQUALS 5 ADD ONE TO SPOUSE-DECEASED OF
308300* COUNT-R2(X), SPOUSE-DECEASED OF STATE-TOTALS,
308500* SPOUSE-DECEASED OF REG-TOTALS.
308700* COMPUTE AGE=THIS-YEAR - YR OF DATE-OF-BIRTH.
308900* ADD AGE TO DATE-STORE(X), STATE-DATE-STORE,
309100* REG-DATE-STORE.
309300* IF AGE IS LESS THAN 17 ADD ONE TO A17-UNDER
309500* OF REG-C05, A17-UNDER OF STATE-C05, A17-UNDER
309700* OF COUNT-C05(X).
309900* IF AGE IS LESS THAN 25 AND GREATER THAN 17
310100* ADD ONE TO A17-25 OF REG-C05, A17-25 OF STATE-C05
310300* , A17-25 OF COUNT-C05(X).
310500* IF AGE IS LESS THAN 35 AND GREATER THAN 25
310700* ADD ONE TO A25-35 OF REG-C05, A25-35 OF STATE-C05,
310900* A25-35 OF COUNT-C05(X).
311100* IF AGE IS GREATER THAN 35 ADD ONE TO A35-OVER OF
311300* REG-C05, A35-OVER OF STATE-C05, A35-OVER OF
311500* COUNT-C05(X).
311700* ADD ONE TO VTOTAL OF COUNT-C(X), VTOTAL OF STATE-TOTALS,
311900* VTOTAL OF REG-TOTALS.
312100* READ DETAILED-MASTER AT END GO TO R-TAPE.
312300* IF TYPE-OF-VISIT EQUALS 0 ADD ONE TO SUPPLY-ON-SCHED LF
312500* COUNT-C(X), SUPPLY-ON-SCHED OF STATE-TOTALS,
312700* SUPPLY-ON-SCHED OF REG-TOTALS.
312900* IF TYPE-OF-VISIT EQUALS 01 ADD ONE TO INTAKE-INTI-ANU-EXAM OF
313100* COUNT-C(X), INTAKE-INTI-ANU-EXAM OF STATE-TOTALS
313300* , INTAKE-INTI-ANU-EXAM
313300* OF REG-TOTALS; ADD ONE TO INTAKE-TOTAL OF COUNT-C(X),
313301* INTAKE-TOTAL OF STATE-TOTALS, INTAKE-TOTAL OF
313302* REG-TOTALS.
313500* IF TYPE-OF-VISIT EQUALS 02 ADD ONE TO REVIS-ANNUAL-CHECK OF
313700* COUNT-C(X), REVIS-ANNUAL-CHECK OF STATE-TOTALS,
313900* REVIS-ANNUAL-CHECK OF REG-TOTALS.
314100* IF TYPE-OF-VISIT EQUALS 03 ADD ONE TO REVISIT OF
314300* COUNT-C(X), REVISIT OF STATE-TOTALS, REVISIT OF
314500* REG-TOTALS.
314700* IF TYPE-OF-VISIT EQUALS 04 ADD ONE TO SUPPLY-ON-UNSCHED OF
314900* COUNT-C(X), SUPPLY-ON-UNSCHED OF STATE-TOTALS,
315100* SUPPLY-ON-UNSCHED OF REG-TOTALS.
315300* IF TYPE-OF-VISIT EQUALS 05 ADD ONE TO UNSCHED-ANNUAL-CHECK OF
315500* COUNT-C(X), UNSCHED-ANNUAL-CHECK OF STATE-TOTALS,
315700* UNSCHED-ANNUAL-CHECK OF REG-TOTALS.
315900* IF TYPE-OF-VISIT EQUALS 06 ADD ONE TO UNSCHED-NON-PROR
316100* OF COUNT-C(X), UNSCHED-NON-PROR OF STATE-TOTALS,
316300* UNSCHED-NON-PROR OF REG-TOTALS.
316320* IF TYPE-OF-VISIT EQUALS 07 ADD ONE TO INTAKE-COUNSELING
316330* OF COUNT-C(X), INTAKE-COUNSELING OF STATE-TOTALS,
316340* INTAKE-COUNSELING OF REG-TOTALS, INTAKE-TOTAL OF
316350* COUNT-C(X), INTAKE-TOTAL OF STATE-TOTALS, INTAKE-TOTAL
316360* OF REG-TOTALS.
316500* IF TYPE-OF-VISIT EQUALS 08 ADD ONE TO UNSCHED-PROBLEM
316700* OF COUNT-C1(X), UNSCHED-PROBLEM OF STATE-TOTALS,
316900* UNSCHED-PROBLEM OF REG-TOTALS.
317100* IF TYPE-OF-VISIT EQUALS 09 ADD ONE TO UNSCHED-PROBLEM-REV
317300* OF COUNT-C1(X), UNSCHED-PROBLEM-REV OF STATE-TOTALS,
317500* UNSCHED-PROBLEM-REV OF REG-TOTALS.
317600* READ DETAILED-MASTER AT END GO TO R-TAPE
317600* ADD NUMBER-OF-PREGNANCIES TO TOTAL-PREG OF
318100* COUNT-C1(X), TOTAL-PREG OF STATE-TOTALS,
318300* TOTAL-PREG OF REG-TOTALS.
318500* ADD NUMBER-BORN-ALIVE TO BORN-ALIVE OF
318700* COUNT-C1(X), BORN-ALIVE OF STATE-TOTALS,
318900* BORN-ALIVE OF REG-TOTALS.
319100* IF OUTCOME-OF-LAST-DELIVERY EQUALS 1 ADD ONE TO
319300* BORN-ALIVE-TERM OF COUNT-C1(X), BORN-ALIVE-TERM
319500* OF STATE-TOTALS, BORN-ALIVE-TERM
319700* OF REG-TOTALS.
319900* IF OUTCOME-OF-LAST-DELIVERY EQUALS 2 ADD ONE TO BORN-ALIVE-
320100* -PRE OF COUNT-C1(X), BORN-ALIVE-PRE OF STATE-TOTALS,
320300* BORN-ALIVE-PRE OF REG-TOTALS.
320500* IF OUTCOME-OF-LAST-DELIVERY EQUALS 3 ADD ONE TO BORN-DEAD
320700* OF COUNT-C1(X), BORN-DEAD OF STATE-TOTALS, BORN-DEAD
320900* OF REG-TOTALS.
321100* IF OUTCOME-OF-LAST-DELIVERY EQUALS 4 ADD ONE TO MIS-ABORT
321300* OF COUNT-C1(X), MIS-ABORT OF STATE-TOTALS, MIS-ABORT
321500* OF REG-TOTALS.
321700* IF OUTCOME-OF-LAST-DELIVERY EQUALS 5 ADD ONE TO NEVER-PREG
321900* OF COUNT-C2(X), NEVER-PREG OF STATE-TOTALS,
322100* NEVER-PREG OF REG-TOTALS.
322300* IF OUTCOME-OF-LAST-DELIVERY EQUALS 6 ADD ONE TO PREG-OTHER
322500* OF COUNT-C2(X), PREG-OTHER OF STATE-TOTALS,
322700* PREG-OTHER OF REG-TOTALS.

```

```

322900* IF OUTCOME-OF-LAST-DELIVERY EQUALS 7 ADD ONE TO UNKNOWN OF
323100* COUNT-C2(X),UNKNOWN OF STATE-TOTALS,UNKNOWN OF
323300* REG-TOTALS.
323500* ADD NUMBER-OF-FETAL-DEATHS TO FETAL-DEATHS OF
323700* COUNT-C2(X),FETAL-DEATHS OF STATE-TOTALS,
323900* FETAL-DEATHS OF REG-TOTALS.
324100* ADD NUMBER-CHILDREN-ALIVE-NOW TO CHILDREN-NOW-ALIVE OF
324300* COUNT-C2(X),CHILDREN-NOW-ALIVE OF STATE-TOTALS,
324500* CHILDREN-NOW-ALIVE OF REG-TOTALS.
324700* READ DETAILED-MASTER AT END GO TO R-TAPE.
324900* IF EVER-USED-METHOD EQUALS "Y" ADD ONE TO PATIENTS-ONCE-USED OF
325100* OF COUNT-D(X),PATIENTS-ONCE-USED OF STATE-TOTALS,
325300* PATIENTS-ONCE-USED OF REG-TOTALS.
325500* IF METHOD-MOST-USED-LAST-2-YEARS EQUALS 00 ADD ONE TO
325700* NONE OF COUNT-D(X),NONE OF STATE
325900* --TOTALS,NONE OF REG-TOTALS.
326100* IF METHOD-MOST-USED-LAST-2-YEARS EQUALS 01 ADD ONE TO
326300* ORAL OF COUNT-D(X),ORAL OF STATE
326500* --TOTALS,ORAL OF REG-TOTALS.
326700* IF METHOD-MOST-USED-LAST-2-YEARS EQUALS 02 ADD ONE TO
326900* IUD OF COUNT-D(X),IUD OF STATE
327100* --TOTALS,IUD OF REG-TOTALS.
327300* IF METHOD-MOST-USED-LAST-2-YEARS EQUALS 03 ADD ONE TO
327500* DIAPHRAGM OF COUNT-D(X),DIAPHRAGM OF
327700* STATE-TOTALS,DIAPHRAGM OF REG-TOTALS.
327900* IF METHOD-MOST-USED-LAST-2-YEARS EQUALS 04 ADD ONE TO
328100* FOAM OF COUNT-D(X),FOAM OF STATE
328300* --TOTALS,FOAM OF REG-TOTALS.
328500* IF METHOD-MOST-USED-LAST-2-YEARS EQUALS 05 ADD ONE TO
328700* RYTHM OF COUNT-D(X),RYTHM OF STATE
328900* --TOTALS,RYTHM OF REG-TOTALS.
329100* IF METHOD-MOST-USED-LAST-2-YEARS EQUALS 06 ADD ONE TO
329300* CONDOM OF COUNT-D(X),CONDOM OF STATE
329500* --TOTALS,CONDOM OF REG-TOTALS.
329700* IF METHOD-MOST-USED-LAST-2-YEARS EQUALS 07 ADD ONE TO
329900* INJECTION OF COUNT-D1(X),INJECTION OF STATE
330100* --TOTALS,INJECTION OF REG-TOTALS.
330300* IF METHOD-MOST-USED-LAST-2-YEARS EQUALS 08 ADD ONE TO
330500* STERILIZATION OF COUNT-D1(X),STERILIZATION
330700* OF STATE-TOTALS,STERILIZATION OF REG-TOTALS.
330900* IF METHOD-MOST-USED-LAST-2-YEARS EQUALS 09 ADD ONE TO
331100* OTHER-CONTRA OF COUNT-D1(X),OTHER-CONTRA
331300* OF STATE-TOTALS,OTHER-CONTRA OF REG-TOTALS.
331500* IF METHOD-MOST-USED-LAST-2-YEARS EQUALS 10 ADD ONE TO
331700* METHOD-NOT-KNOWN OF COUNT-D1(X),
331900* METHOD-NOT-KNOWN OF STATE-TOTALS,METHOD-
332100* NOT-KNOWN OF REG-TOTALS.
332300* IF WHO-PRESCRIBED-LATEST-METHOD EQUALS 1 ADD ONE TO
332500* PRIV-DOCTOR OF COUNT-D1(X),PRIV-DOCTOR
332700* OF STATE-TOTALS,PRIV-DOCTOR
332900* OF REG-TOTALS.
333100* IF WHO-PRESCRIBED-LATEST-METHOD EQUALS 2 ADD ONE TO
333300* PUB-CLINIC OF COUNT-D1(X),PUB-CLINIC
333500* OF STATE-TOTALS,PUB-CLINIC OF REG-TOTALS.
333700* IF WHO-PRESCRIBED-LATEST-METHOD EQUALS 3 ADD ONE TO
333900* DRUGGIST OF COUNT-D1(X),DRUGGIST
334100* OF STATE-TOTALS,DRUGGIST OF REG-TOTALS.
334300* IF WHO-PRESCRIBED-LATEST-METHOD EQUALS 4 ADD ONE TO
334500* OTHER OF COUNT-D1(X),OTHER OF STATE
334700* --TOTALS,OTHER OF REG-TOTALS.
334900* READ DETAILED-MASTER AT END GO TO R-TAPE.
335100* IF COUNSELING EQUALS 1 ADD ONE TO CONTRACEP-
335300* COUN OF COUNT-E(X),CONTRACEP-COUN
335500* OF STATE-TOTALS,CONTRACEP-COUN
335700* OF REG-TOTALS.
335900* IF COUNSELING EQUALS 2 ADD ONE TO STERILIZA-
336100* COUN OF COUNT-E(X),STERILIZA-COUN
336300* OF STATE-TOTALS,STERILIZA-COUN
336500* OF REG-TOTALS.
336700* IF COUNSELING EQUALS 3 ADD ONE TO INFERTILI-
336900* COUN OF COUNT-E(X),INFERTILI-COUN
337100* OF STATE-TOTALS,INFERTILI-COUN
337300* OF REG-TOTALS.
337500* IF COUNSELING EQUALS 4 ADD ONE TO ABORTION-COUN
337700* OF COUNT-E(X),ABORTION-COUN
337900* OF STATE-TOTALS,ABORTION-COUN OF REG-TOTALS.
338100* IF COUNSELING EQUALS 5 ADD ONE TO SOCIAL-SER-
338300* COUN OF COUNT-E(X),SOCIAL-SER-COUN
338500* OF STATE-TOTALS,SOCIAL-SER-COUN OF
338700* REG-TOTALS.
338900* IF COUNSELING EQUALS 6 ADD ONE TO OTHER-COUN
339100* OF COUNT-E(X),OTHER-COUN OF
339300* STATE-TOTALS,OTHER-COUN OF REG-TOTALS.

```

339500* IF MRLDOD-PRESSIFF EQUALS "Y" ADD ONE TO
339700* BLOOD-PRESSURE OF COUNT-E(X),
339900* BLOOD-PRESSURE OF STATE-TOTALS,
340100* BLOOD-PRESSURE OF REG-TOTALS.
340300* IF MVD-BLOOD-TEST EQUALS "Y" ADD ONE TO
340500* VD-BLOOD-TEST OF COUNT-E(X),
340700* VD-BLOOD-TEST OF STATE-TOTALS,
340900* VD-BLOOD-TEST OF REG-TOTALS.
341100* IF HCT-HGB EQUALS "Y" ADD ONE TO HCT-HGB-TEST
341300* HCT-HGB-TEST OF COUNT-E(X), HCT-HGB-TEST OF STATE-TOTALS,
341500* HCT-HGB-TEST OF REG-TOTALS.
341700* IF MRLDOD-TEST EQUALS "Y" ADD ONE TO BLOOD-TEST
341900* OF COUNT-E1(X), BLOOD-TEST OF
342100* STATE-TOTALS,
342300* IF VDRL EQUALS "Y0" ADD ONE TO VDRL-TOTAL OF
342500* COUNT-E1(X), VDRL-POS OF COUNT-E1(X),
342700* VDRL-TOTAL OF STATE-TOTALS, VDRL-POS OF
342900* STATE-TOTALS, VDRL-POS OF REG-TOTALS,
343100* VDRL-TOTAL OF REG-TOTALS.
343300* IF VDRL EQUALS "Y1" ADD ONE TO VDRL-TOTAL OF
343500* COUNT-E1(X), VDRL-NEG OF COUNT-E1(X),
343700* VDRL-TOTAL OF STATE-TOTALS, VDRL-NEG OF
343900* STATE-TOTALS, VDRL-NEG OF REG-TOTALS,
344100* VDRL-TOTAL OF REG-TOTALS.
344300* IF MPAP-SMEAR EQUALS "Y0" ADD ONE TO PAP-TOTAL OF
344500* COUNT-E1(X), PAP-POS OF COUNT-E1(X),
344700* PAP-TOTAL OF STATE-TOTALS, PAP-POS
344900* OF STATE-TOTALS, PAP-TOTAL OF REG-TOTALS, PAP-POS OF
345100* REG-TOTALS.
345300* IF MPAP-SMEAR EQUALS "Y1" ADD ONE TO PAP-TOTAL OF
345500* COUNT-E1(X), PAP-TOTAL OF STATE-
345700* TOTALS, PAP-NEG OF COUNT-E1(X), PAP-NEG
345900* OF STATE-TOTALS, PAP-TOTAL OF REG-TOTALS, PAP-NEG OF
346100* REG-TOTALS.
346300* IF G-C-CULTURE EQUALS "Y0" ADD ONE TO GC-TOTAL OF
346500* COUNT-E2(X), GC-POS OF COUNT-E2(X),
346700* GC-TOTAL OF STATE-TOTALS, GC-POS
346900* OF STATE-TOTALS, GC-TOTAL OF REG-TOTALS, GC-POS OF
347100* REG-TOTALS.
347300* IF G-C-CULTURE EQUALS "Y1" ADD ONE TO GC-TOTAL OF
347500* COUNT-E2(X), GC-TOTAL OF STATE-
347700* TOTALS, GC-NEG OF COUNT-E2(X), GC-NEG
347900* OF STATE-TOTALS, GC-TOTAL OF REG-TOTALS, GC-NEG OF
348100* REG-TOTALS.
348300* IF BREAST EQUALS "Y" ADD ONE TO BREAST-TOTAL
348500* OF COUNT-E2(X), BREAST-TOTAL
348700* OF STATE-TOTALS, BREAST-TOTAL OF REG-TOTALS.
348900* IF PELVIC-EXAM EQUALS "Y" ADD ONE TO PELVIC-TOTAL OF
349100* COUNT-E2(X), PELVIC-TOTAL OF STATE-
349300* TOTALS, PELVIC-TOTAL OF REG-TOTALS.
349500* IF URINALYSIS EQUALS "Y" ADD ONE TO URINALYSIS-TOT
349700* OF COUNT-E2(X), URINALYSIS-TOT
349900* OF STATE-TOTALS, URINALYSIS-TOT OF
350100* REG-TOTALS.
350300* IF SICKLE-CELL-ANEMIA EQUALS "Y0" ADD ONE TO SICKLE-TOTAL OF
350500* COUNT-E2(X), SICKLE-POS OF COUNT-E2(X),
350700* SICKLE-TOTAL OF STATE-TOTALS, SICKLE-POS
350900* OF STATE-TOTALS, SICKLE-TOTAL OF REG-TOTALS,
351100* SICKLE-POS OF REG-TOTALS.
351300* IF SICKLE-CELL-ANEMIA EQUALS "Y1" ADD ONE TO SICKLE-TOTAL OF
351500* COUNT-E2(X), SICKLE-TOTAL OF STATE-
351700* TOTALS, SICKLE-NEG OF COUNT-E2(X), SICKLE-NEG
351900* OF STATE-TOTALS, SICKLE-TOTAL OF REG-TOTALS,
352100* SICKLE-NEG OF REG-TOTALS.
352300* IF M-STERILIZATION EQUALS "Y0" ADD ONE TO STERILIZATION-
352500* TOT OF COUNT-E3(X),
352700* STERILIZATION-TOT OF STATE-TOTALS, STERILIZATION-TOT OF
352900* REG-TOTALS, STER-THER OF COUNT-E3(X), STER-THER
352905* OF STATE-TOTALS, STER-THER OF REG-TOTALS.
352910* IF M-STERILIZATION EQUALS "Y1" ADD ONE TO
352915* STERILIZATION-TOT OF COUNT-E3(X), STERILIZATION-TOT
352920* OF STATE-TOTALS, STERILIZATION-TOT OF REG-TOTALS,
352925* STER-NON OF COUNT-E3(X), STER-NON OF STATE-TOTALS,
352930* STER-NON OF REG-TOTALS.
353100* IF INFERTILITY EQUALS "Y" ADD ONE TO INFERTILITY-TOTAL
353300* OF COUNT-E3(X), INFERTILITY-
353500* TOTAL OF STATE-TOTALS, INFERTILITY-TOTAL
353700* OF REG-TOTALS.
353900* IF MPREGNANCY-TEST EQUALS "Y0" ADD ONE TO PREG-TEST-TOTAL OF
354100* COUNT-E3(X), PREG-POS OF COUNT-E3(X),
354300* PREG-TEST-TOTAL OF STATE-TOTALS, PREG-POS
354500* OF STATE-TOTALS, PREG-TEST-TOTAL OF
354700* REG-TOTALS, PREG-POS OF REG-TOTALS.

354900* IF MPREGNANCY-TEST EQUALS "Y1" ADD ONE TO PREG-TEST-TOTAL OF
355100* COUNT-F3(X), PREG-TEST-TOTAL OF STATE-
355300* TOTALS, PREG-NEG OF COUNT-F3(X), PREG-NEG
355500* OF STATE-TOTALS, PREG-TEST-TOTAL OF REG-TOTALS,
355700* PREG-NEG OF REG-TOTALS.
355900* IF M-OTHER EQUALS "Y" ADD ONE TO OTHER-TEST OF
356100* COUNT-F3(X), OTHER-TEST OF
356300* STATE-TOTALS, OTHER-TEST OF REG-TOTALS.
356500* IF METHOD-AFTER-VISIT EQUALS 0 ADD ONE TO
356700* ND-METHOD OF COUNT-F(X),
356900* ND-METHOD OF STATE-TOTALS, ND-METHOD OF
357100* REG-TOTALS.
357300* IF METHOD-AFTER-VISIT EQUALS 1 ADD ONE TO
357500* ORAL-TOTAL OF COUNT-F(X),
357700* ORAL-TOTAL OF STATE-TOTALS, ORAL-TOTAL OF
357900* REG-TOTALS.
358100* IF METHOD-AFTER-VISIT EQUALS 2 ADD ONE TO
358300* IUD-TOTAL OF STATE-TOTALS, IUD-TOTAL OF
358700* REG-TOTALS.
358900* IF METHOD-AFTER-VISIT EQUALS 3 ADD ONE TO
359100* DIA-TOTAL OF COUNT-F(X), DIA-TOTAL
359201* OF STATE-TOTALS, DIA-TOTAL OF REG-TOTALS,
359700* IF METHOD-AFTER-VISIT EQUALS 4 ADD ONE TO
359900* FOAM-TOTAL OF COUNT-F(X),
360100* FOAM-TOTAL OF STATE-TOTALS, FOAM-TOTAL OF
360300* REG-TOTALS.
360500* IF METHOD-AFTER-VISIT EQUALS 5 ADD ONE TO
360700* RYTHM-TOTAL OF COUNT-F(X),
360900* RYTHM-TOTAL OF STATE-TOTALS, RYTHM-TOTAL OF
361100* REG-TOTALS.
361300* IF METHOD-AFTER-VISIT EQUALS 6 ADD ONE TO
361500* CONDOM-TOTAL OF COUNT-F(X),
361700* CONDOM-TOTAL OF STATE-TOTALS, CONDOM-TOTAL OF
361900* REG-TOTALS.
362100* IF METHOD-AFTER-VISIT EQUALS 7 ADD ONE TO
362300* INJECTION-TOTAL OF COUNT-F(X),
362500* INJECTION-TOTAL OF STATE-TOTALS,
362700* INJECTION-TOTAL OF REG-TOTALS.
362900* IF METHOD-AFTER-VISIT EQUALS 8 ADD ONE TO
363100* STERILIZA-TOTAL OF COUNT-F1(X),
363300* STERILIZA-TOTAL OF STATE-TOTALS,
363500* STERILIZA-TOTAL OF REG-TOTALS.
363700* IF METHOD-AFTER-VISIT EQUALS 9 ADD ONE TO
363900* OTHER-CONTRA-TOTAL OF COUNT-F1(X),
364100* OTHER-CONTRA-TOTAL OF STATE-TOTALS,
364300* OTHER-CONTRA OF REG-TOTALS.
364500* IF REASON-FOR-STOPPING-METHOD EQUALS 1
364700* ADD ONE TO PREC-PLAN-TOTAL OF
364900* COUNT-F1(X), PREC-PLAN-
365100* TOTAL OF STATE-TOTALS,
365300* PREG-PLAN-TOTAL OF REG-TOTALS.
365500* IF REASON-FOR-STOPPING-METHOD EQUALS 2
365700* ADD ONE TO PREC-UNPLAN-TOT OF
365900* COUNT-F1(X), PREC-UNPLA
366100* N-TOT OF STATE-TOTALS,
366300* PREG-UNPLAN-TOTAL OF REG-TOTALS.
366500* IF REASON-FOR-STOPPING-METHOD EQUALS 3
366700* ADD ONE TO SEEK-PREG-TOTAL OF
366900* COUNT-F1(X), SEEK-PREG-TOTAL
367100* OF STATE-TOTALS,
367300* SEEK-PREG-TOTAL OF REG-TOTALS.
367500* IF REASON-FOR-STOPPING-METHOD EQUALS 4
367700* ADD ONE TO MEDICAL-REASON-TOT OF
367900* COUNT-F1(X), MEDICAL-REA
368100* SON-TOT OF STATE-TOTALS,
368300* MEDICAL-REASON-TOT OF REG-TOTALS.
368500* IF REASON-FOR-STOPPING-METHOD EQUALS 5
368700* ADD ONE TO OTHER-REASON-TOTAL OF
368900* COUNT-F1(X), OTHER-REA
369100* SON-TOTAL OF STATE-TOTALS,
369300* OTHER-REASON-TOTAL OF REG-TOTALS.
369500* IF M-REFERRED-ELSEWHERE EQUALS 1 ADD ONE TO
369700* TOTAL-REFERRED OF STATE-TOTALS,
369900* TOTAL-REFERRED OF COUNT-G(X),
369950* TOTAL-REFERRED OF REG-TOTALS,
370100* SOC-SER-TOTAL OF COUNT-G(X),
370200* SOC-SER-TOTAL OF REG-TOTALS,
370300* SOC-SER-TOTAL OF STATE-TOTALS.
370500* IF M-REFERRED-ELSEWHERE EQUALS 2 ADD ONE TO
370700* TOTAL-REFERRED OF STATE-TOTALS,
370800* TOTAL-REFERRED OF COUNT-G(X);


```

396500* IF M-REASON-FOR-DISCHARGE EQUALS 3 ADD ONE TO
396700* MEDICAL-REAS-TOTAL OF
396900* COUNT-I(X),
397000* MEDICAL-REAS-TOTAL OF REG-TOTALS,
397100* MEDICAL-REAS-TOTAL OF STATE-TOTALS.
397300* IF M-REASON-FOR-DISCHARGE EQUALS 4 ADD ONE TO
397500* PATIENT-MOVED-TOTAL OF
397700* COUNT-I(X),
397800* PATIENT-MOVED-TOTAL OF REG-TOTALS,
397900* PATIENT-MOVED-TOTAL OF STATE-TOTALS.
398000* IF M-REASON-FOR-DISCHARGE EQUALS 5 ADD ONE TO
398300* PATIENT-LOST-INTEREST-TOT OF
398500* COUNT-I(X),
398600* PATIENT-LOST-INTEREST-TOT
398601* OF REG-TOTALS,
398700* PATIENT-LOST-INTEREST-TOT OF STATE-TOTALS.
398900* IF M-REASON-FOR-DISCHARGE EQUALS 6 ADD ONE TO
399100* PREG-DESIRED-TOTAL OF
399300* COUNT-I(X),
399400* PREG-DESIRED-TOTAL OF REG-TOTALS,
399500* PREG-DESIRED-TOTAL OF STATE-TOTALS.
399700* IF M-REASON-FOR-DISCHARGE EQUALS 7 ADD ONE TO
399900* PREG-UNPLAN-TOTAL OF
400100* COUNT-I(X),
400200* PREG-UNPLAN-TOTAL OF REG-TOTALS,
400300* PREG-UNPLAN-TOTAL OF STATE-TOTALS.
400500* IF M-REASON-FOR-DISCHARGE EQUALS 8 ADD ONE TO
400700* UNKNOWN-DISCHAE-REAS-TOT OF
400900* COUNT-I(X),
401000* UNKNOWN-DISCHAE-REAS-TOT OF
401001* REG-TOTALS,
401100* UNKNOWN-DISCHAE-REAS-TOT OF STATE-TOTALS.
401300* GO TO MASTER-SCAN.
401500* R-TAPE.
401700* DISPLAY "PASS#",U-ROUND.
401900* IF U-ROUND EQUALS 160
402100* MOVE "OUT-OF-DATA BEFORE PDP...RIN PROCEEDING" TO
402300* OPERATOR-MESSAGE; DISPLAY OPERATOR-MESSAGE UPON CONSOLE;
402500* PERFORM COUNTY-WRITER; GO TO COUNT-WRITER.
402700* PERFORM COUNTY-WRITER; PERFORM RESTART-WRITER.
402900* ADD 10 TO L-ROUND,U-ROUND.
403100* CLOSE MASTER-SCAN; OPEN INPUT DETAILED-MASTER.
403500* RESTART-WRITER SECTION.
403700* MOVE STATE.
403900* CLOSE RESTART-FILE; OPEN OUTPUT RESTART-FILE.
404100* COMPUTE STATE-DATE-STORE=STATE-DATE-STORE/P
404300* -ATTENT-TOTAL OF STATE-A.
404500* MOVE COUNT-TRACK TO RES-COUNT-NAME.
404700* WRITE RESTART-A.
404900* MOVE STATE-B TO RESTART-B; WRITE RESTART-B.
405100* MOVE STATE-B2 TO RESTART-B2; WRITE RESTART-B2.
405300* MOVE STATE-DATE-STORE TO AVERAGE-AGE OF STATE-C05.
405500* MOVE STATE-C05 TO RESTART-C05; WRITE RESTART-C05.
405700* MOVE STATE-C TO RESTART-C; WRITE RESTART-C.
405900* MOVE STATE-C1 TO RESTART-C1; WRITE RESTART-C1.
406100* MOVE STATE-C2 TO RESTART-C2; WRITE RESTART-C2.
406300* MOVE STATE-D TO RESTART-D; WRITE RESTART-D.
406500* MOVE STATE-D1 TO RESTART-D1; WRITE RESTART-D1.
406700* MOVE STATE-E TO RESTART-E; WRITE RESTART-E.
406900* MOVE STATE-E1 TO RESTART-E1; WRITE RESTART-E1.
407100* MOVE STATE-E2 TO RESTART-E2; WRITE RESTART-E2.
407300* MOVE STATE-E3 TO RESTART-E3; WRITE RESTART-E3.
407500* MOVE STATE-E TO RESTART-E; WRITE RESTART-E.
407700* MOVE STATE-F1 TO RESTART-F1; WRITE RESTART-F1.
407900* MOVE STATE-G TO RESTART-G; WRITE RESTART-G.
408100* MOVE STATE-G1 TO RESTART-G1; WRITE RESTART-G1.
408300* MOVE STATE-G2 TO RESTART-G2; WRITE RESTART-G2.
408500* MOVE STATE-H TO RESTART-H; WRITE RESTART-H.
408700* MOVE STATE-H1 TO RESTART-H1; WRITE RESTART-H1.
408900* MOVE STATE-I TO RESTART-I; WRITE RESTART-I.
409100* MOVE STATE-I1 TO RESTART-I1; WRITE RESTART-I1.
409300* MOVE REG.
409500* COMPUTE REG-DATE-STORE=REG-DATE-STORE/P
409700* -ATTENT-TOTAL OF REG-A.
409900* MOVE "REG" TO RES-COUNT-NAME.
410100* MOVE 999 TO RESTART-NUM.
410300* WRITE RESTART-A.
410500* MOVE REG-B TO RESTART-B; WRITE RESTART-B.
410700* MOVE REG-B2 TO RESTART-B2; WRITE RESTART-B2.
410900* MOVE REG-DATE-STORE TO AVERAGE-AGE OF REG-C05.
411100* MOVE REG-C05 TO RESTART-C05; WRITE RESTART-C05.
411300* MOVE REG-C TO RESTART-C; WRITE RESTART-C.

```



```

411500* MOVE REG-C1 TO RESTART-C1;WRITE RESTART-C1.
411700* MOVE REG-C2 TO RESTART-C2;WRITE RESTART-C2.
411900* MOVE REG-D TO RESTART-D;WRITE RESTART-D.
412100* MOVE REG-D1 TO RESTART-D1;WRITE RESTART-D1.
412300* MOVE REG-E TO RESTART-E;WRITE RESTART-E.
412500* MOVE REG-E1 TO RESTART-E1;WRITE RESTART-E1.
412700* MOVE REG-E2 TO RESTART-E2;WRITE RESTART-E2.
412900* MOVE REG-E3 TO RESTART-E3;WRITE RESTART-E3.
413100* MOVE REG-F TO RESTART-F;WRITE RESTART-F1.
413300* MOVE REG-F1 TO RESTART-F1;WRITE RESTART-F1.
413500* MOVE REG-G TO RESTART-G;WRITE RESTART-G.
413700* MOVE REG-G1 TO RESTART-G1;WRITE RESTART-G1.
413900* MOVE REG-G2 TO RESTART-G2;WRITE RESTART-G2.
414100* MOVE REG-H TO RESTART-H;WRITE RESTART-H.
414300* MOVE REG-H1 TO RESTART-H1;WRITE RESTART-H1.
414500* MOVE REG-I TO RESTART-I;WRITE RESTART-I.
414700* MOVE REG-I1 TO RESTART-I1;WRITE RESTART-I1.
414900* MOVE DATE-STORE(1) TO R-DATE-STORE(1);MOVE DATE-STORE(2) TO R-DATE-STORE(2);MOVE DATE-STORE(3) TO R-DATE-STORE(3);
415300* MOVE DATE-STORE(4) TO R-DATE-STORE(4);MOVE DATE-STORE(5) TO R-DATE-STORE(5);
415500* MOVE DATE-STORE(6) TO R-DATE-STORE(6);MOVE DATE-STORE(7) TO R-DATE-STORE(7);
415700* MOVE DATE-STORE(8) TO R-DATE-STORE(8);MOVE DATE-STORE(9) TO R-DATE-STORE(9);
416100* MOVE STATE-DATE-STORE TO R-STATE-DATE-STORE;
416300* MOVE REG-DATE-STORE TO R-REG-DATE-STORE.
416500* WRITE RESTART-J.
416900* COUNT-WRITE SECTION.
417100* MOVE STATE.
417300* COMPUTE STATE-DATE-STORE=STATE-DATE-STORE/P
417500* -PATIENT-TOTAL OF STATE-A.
417600* MOVE STATE-A TO COUNTY-A.
417700* MOVE END-COUNTY TO COUNTY-NUM.
417900* MOVE COUNT-TRACK TO C-COUNT-NAME.
418000* WRITE COUNTY-A.
418100* MOVE STATE-B TO COUNTY-B;WRITE COUNTY-B.
418300* MOVE STATE-B2 TO COUNTY-B2;WRITE COUNTY-B2.
418500* MOVE STATE-C TO COUNTY-C;WRITE COUNTY-C.
418700* MOVE STATE-DATE-STORE TO AVERAGE-AGE OF STATE-C05.
418900* MOVE STATE-C05 TO COUNTY-C05;WRITE COUNTY-C05.
419100* MOVE STATE-C2 TO COUNTY-C2;WRITE COUNTY-C2.
419300* MOVE STATE-D TO COUNTY-D;WRITE COUNTY-D.
419500* MOVE STATE-D1 TO COUNTY-D1;WRITE COUNTY-D1.
419700* MOVE STATE-E TO COUNTY-E;WRITE COUNTY-E.
419900* MOVE STATE-E1 TO COUNTY-E1;WRITE COUNTY-E1.
420100* MOVE STATE-E2 TO COUNTY-E2;WRITE COUNTY-E2.
420300* MOVE STATE-E3 TO COUNTY-E3;WRITE COUNTY-E3.
420500* MOVE STATE-F TO COUNTY-F;WRITE COUNTY-F.
420700* MOVE STATE-F1 TO COUNTY-F1;WRITE COUNTY-F1.
420900* MOVE STATE-G TO COUNTY-G;WRITE COUNTY-G.
421100* MOVE STATE-G1 TO COUNTY-G1;WRITE COUNTY-G1.
421300* MOVE STATE-G2 TO COUNTY-G2;WRITE COUNTY-G2.
421500* MOVE STATE-H TO COUNTY-H;WRITE COUNTY-H.
421700* MOVE STATE-H1 TO COUNTY-H1;WRITE COUNTY-H1.
421900* MOVE STATE-I TO COUNTY-I;WRITE COUNTY-I.
422100* MOVE STATE-I1 TO COUNTY-I1;WRITE COUNTY-I1.
422300* Z FRN STATE.
422500* MOVE ZEROS TO STATE-C05.
422700* MOVE ZEROS TO STATE-R,STATE-R2,STATE-C.
422900* MOVE ZEROS TO STATE-C2,STATE-D,STATE-D1.
423100* MOVE ZEROS TO STATE-F,STATE-F1,STATE-E2.
423300* MOVE ZEROS TO STATE-F,STATE-F1,STATE-G.
423500* MOVE ZEROS TO STATE-G1,STATE-H,STATE-H1.
423700* MOVE ZEROS TO STATE-I,STATE-I1.
423900* STATE-WRITE SECTION.
424100* MOVE REG.
424300* COMPUTE REG-DATE-STORE=REG-DATE-STORE/P
424500* -PATIENT-TOTAL OF REG-A.
424600* MOVE REG-A TO COUNTY-A.
424700* MOVE "REG" TO C-COUNT-NAME.
424900* MOVE 999 TO COUNTY-NUM.
425000* WRITE COUNTY-A.
425100* MOVE REG-B TO COUNTY-B;WRITE COUNTY-B.
425300* MOVE REG-B2 TO COUNTY-B2;WRITE COUNTY-B2.
425500* MOVE REG-DATE-STORE TO AVERAGE-AGE OF REG-C05.
425700* MOVE REG-C05 TO COUNTY-C05;WRITE COUNTY-C05.
425900* MOVE REG-C TO COUNTY-C;WRITE COUNTY-C.
426100* MOVE REG-C2 TO COUNTY-C2;WRITE COUNTY-C2.
426300* MOVE REG-D TO COUNTY-D;WRITE COUNTY-D.
426500* MOVE REG-D1 TO COUNTY-D1;WRITE COUNTY-D1.
426700* MOVE REG-E TO COUNTY-E;WRITE COUNTY-E.
426900* MOVE REG-E1 TO COUNTY-E1;WRITE COUNTY-E1.
427100* MOVE REG-E2 TO COUNTY-E2;WRITE COUNTY-E2.
427300* MOVE REG-E3 TO COUNTY-E3;WRITE COUNTY-E3.

```


REPORT GENERATOR

REPORT GENERATOR

The report generator program produces outputs in a list format cross-referencing various data elements for certain constraints. For example, the user may want to know the number of patients in the Medicaid program for various states and compare it to the number in the total family planning program. Here the constraint is determined by the need to know how many patient during a set period were in the Medicaid program. Thus for each state two rows can be generated as illustrated below.

	Ala.	Fla.	Ga.	Ky.	Miss.	N.C.	S.C.	Tenn.
Medicaid								
Non-Medicaid								

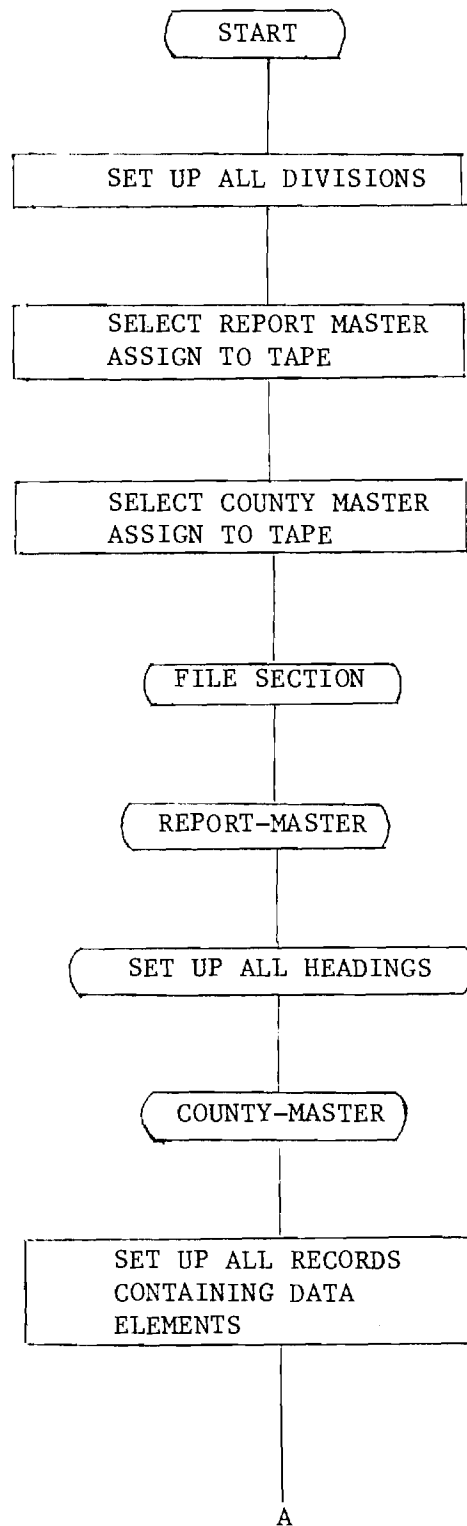
Two approaches can be used in employing the report generator.

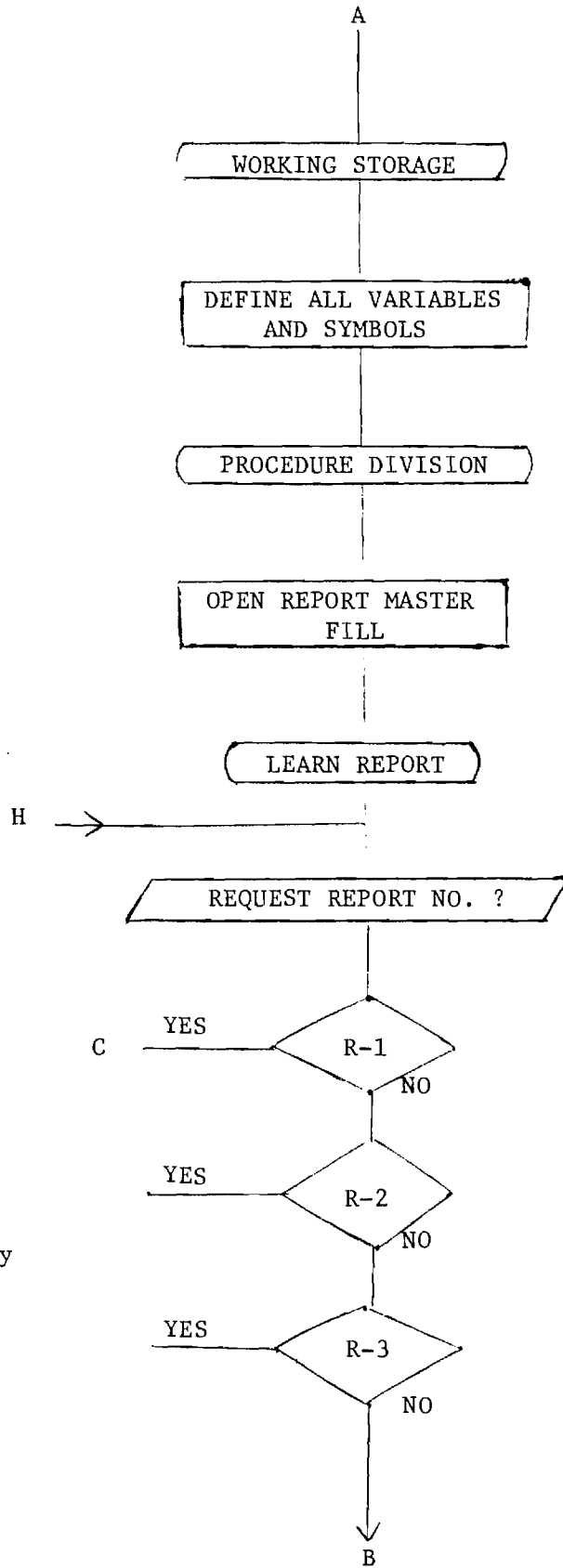
1. General Report Generator. This allows the creation of cross-reference tables of data elements as specified by the user. Caution must be exercised here, for as the user is given total freedom he may generate multitudes of reports before deciding the one he really wants, hence consuming a great deal of computing time and paper.

2. Package Report Generator. This produces a set of pre-determined reports. These reports are determined to be the most frequently needed and useful ones. In addition, options can be incorporated which enable the user to expand the number of reports or call on other packages for different sets of reports.

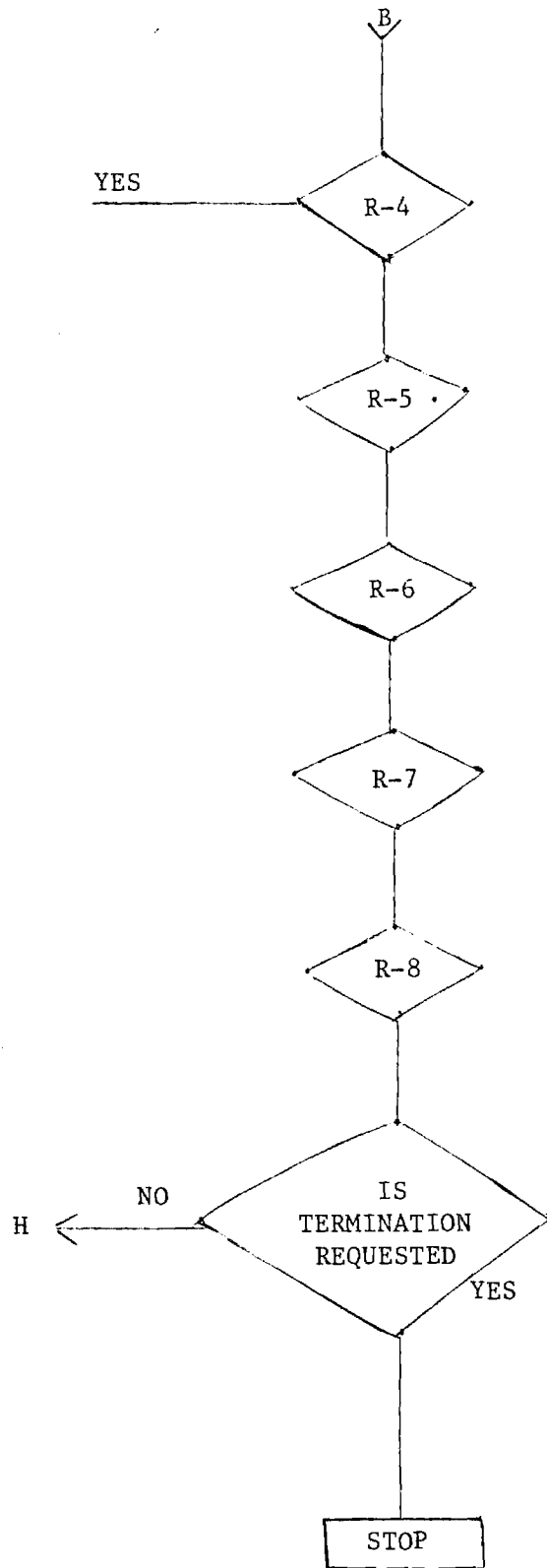
Presented on the next pages are detailed flowcharts and code for a report generator simulator as described above, and these are followed by some sample dummy report specifications that show the kind of data presentations a user might want to summon for his information.

DETAILED FLOWCHARTS OF REPORT GENERATOR SIMULATOR





Identical to C but with different key words



C

WRITE PATIENT TOTAL
AS HEADING

WRITE NUMBER OF VISIT AS
THE KEY DATA IN CROSS-
REFERENCING

WRITE ALL OTHER KEY DATA
ELEMENTS SUCH AS MALES,
BLACK, WHITE, ETC.

WRITE THEIR VALUES FROM
TALLY PROGRAM

RETURN.

THERE ARE TWO LEVELS OF AGGREGATION THAT WILL BE AVAILABLE ON THE REPORTS PRODUCED BY THE RDN. ALL CLASS "R" REPORTS WILL CONTAIN DATA ON THE REGIONAL AND STATE LEVEL. ALL CLASS "C" REPORTS WILL CONTAIN DATA ON THE COUNTY LEVEL. EACH REPORT WILL GIVE AN ACTUAL COUNT OF SOME ITEM IN REPORT R-2 FIGURES LISTED IN THE TOTALS COL. ARE ACTUALLY CLINIC AVERAGES AND PERCENTAGE OF THE OCCURANCE IN RESPECT TO THE TOTAL NUMBER OF PATIENTS, CLINICS, ETC. THERE ARE 12 DIFFERENT REPORTS AVAILABLE ON EACH LEVEL. THEY ARE AS FOLLOWS:

REPORT	ITEM LISTED
R-1,C-1	PATIENT PROFILE DATA
R-2,C-2	CLINIC DATA
R-3,C-3	PATIENT REASON FOR VISIT
R-4,C-4	PATIENT PREGNANCY HISTORY
R-5,C-5	PATIENT CONTRACEPTIVE HISTORY
R-6,C-6	SERVICES RECEIVED
R-7,C-7	CONTRACEPTIVE PRESCRIBED BY CLINIC
R-8,C-8	PATIENT REFERRED ELSEWHERE
R-9,C-9	PATIENT HANDLED BY STAFF
R10,C10	REFERRAL SOURCE DATA
R11,C11	NEXT APPOINTMENT DATA
R12,C12	DROP OUT DATA

THIS REPORTS SHOULD PROVIDE AN EXCELLENT TOOL FOR EVALUATION OF THE F.P. SYSTEM. IT IS RECOMMENDED THAT ALL OF THE CLASS "R" REPORTS BE PRODUCED ON EACH RUN SINCE THEY ARE SMALL IN SIZE AND CONTAIN IMPORTANT INFORMATION FOR OVERALL SYSTEM EVALUATION. IT IS NOT RECOMMENDED HOWEVER THAT ALL CLASS "C" REPORTS FOR ALL COUNTIES BE PRODUCED ON EACH RUN AS IN THIS WOULD PRODUCE OVER 1000 REPORTS (EACH DISPLAYING 5 COUNTIES) AND THE GAIN FROM SUCH WOULD BE QUESTIONABLE IN COST OF COMPUTER TIME. THE EXCEPTION TO THIS WOULD BE WHEN A COMPLETE IN-DEPTH EVALUATION OF EACH COUNTY ON ALL LEVELS IS DESIRED. A BETTER WAY TO UTILIZE THE REPORT CAPABILITIES OF THE RDN WOULD BE TO REQUEST INFORMATION ON SPECIFIC COUNTIES AND IN SELECTED AREAS FOR THE PURPOSES OF EVALUATION.

* * * * *

PLEASE NOTE THAT THE REPORTS ENCLOSED ARE SAMPLES ONLY. THUS ALL NUMERIC FIELDS ARE FILLED WITH ZEROS.

```

100*SLIST
200*IDENTIFICATION DIVISION.
300*PROGRAM-ID. HEALTH EDUCATION AND WELFARE MASTER CONTROL
400** PROGRAM REGION TV DATA PROCESSING NETWORK.
500*AUTHOR. DANIEL GRAY CRIDER.
600*INSTALLATION. RICH COMPUTER CENTER--GA INST OF TECHNOLOGY.
700*DATE-WRITTEN. JULY-DECEMBER 1975.
800*DATE-COMPILED.
900*ENVIRONMENT DIVISION.
1000*CONFIGURATION SECTION.
1100*SOURCE-COMPUTER. P-5500.
1200*OBJECT-COMPUTER. P-5500.
1300*INPUT-OUTPUT SECTION.
1400*FILE-CONTROL.
1500* SELECT REPORT-MASTER ASSIGN TO BACKUP TAPE.
1600* SELECT COUNTY-MASTER ASSIGN TO TAPE.
1700*I-O-CONTROL.
1800*DATA DIVISION.
1900*FILE SECTION.
2000*FD REPORT-MASTER
2100* RECORD CONTAINS 112 CHARACTERS.
2200*01 HEADING-A.
2300* 02 FILLER PIC X(45).
2400* 02 TITLE-1 PIC X(21).
2500* 02 FILLER PIC X(46).
2600*01 HEADING-B.
2700* 02 REPORT-NUM PIC X(7).
2800* 02 R-NUM PIC X(3).
2900* 02 FILLER PIC X(13).
3000* 02 DATE-OF-REPORT PIC X(29).
3100* 02 D-C-R PIC X(8).
3200* 02 FILLER PIC X(10).
3300* 02 TIME-SPAN PIC X(22).
3400* 02 T-S-1 PIC X(8).
3500* 02 INT PIC X(4).
3600* 02 T-S-2 PIC X(8).
3700*01 HEADING-C.
3800* 02 REPORT-NAME PIC X(30).
3900* 02 FILLER PIC X(82).
4000*01 HEADING-D.
4100* 02 FILLER PIC X(11).
4200* 02 ITEM-H PIC X(4).
4300* 02 FILLER PIC X(12).
4400* 02 SECTION-HEADING OCCURS 5 TIMES.
4500* 03 FILLER PIC X(2).
4600* 03 LOCAL-A PIC X(15).
4700*01 HEADING-E.
4800* 02 FILLER PIC X(27).
4900* 02 GROUP-HEADING OCCURS 5 TIMES.
5000* 03 FILLER PIC X(7).
5100* 03 ITEM-S PIC X(5).
5200* 03 FILLER PIC X(1).
5300* 03 PER-C PIC X(3).
5400* 03 FILLER PIC X(1).
5500*01 HEADING-F.
5600* 02 ITEM PIC X(27).
5700* 02 GROUP-DISPLAY OCCURS 5 TIMES.
5800* 03 STAR-1 PIC X(2).
5900* 03 TOTAL-A PIC X(10).
6000* 03 STAR-2 PIC X(1).
6100* 03 PERCENT-A PIC X(3).
6200* 03 PER-MARK PIC X(1).
6300*FD COUNTY-MASTER
6400* RECORD CONTAINS 20 RECORDS
6500* RECORDING MODE IS STANDARD
6600* RECORD CONTAINS 80 CHARACTERS
6700* VALUE OF FD IS "CMASTER"
6800* SAME FACTOR IS 300.
6900*01 COUNTY-A.
7000* 03 C-STATE-NAME PIC X(3) JUST RIGHT.
7100* 03 COUNTY-NUM PIC 999.
7200* 03 CLINIC-TOTAL PIC 9(4) JUST RIGHT.
7300* 03 PATIENT-TOTAL PIC 9(12) JUST RIGHT.
7400* 03 MEDICAID-TOTAL PIC 9(12) JUST RIGHT.
7500* 03 FEMALE-TOTAL PIC 9(12) JUST RIGHT.
7600* 03 MALE-TOTAL PIC 9(12) JUST RIGHT.
7700* 03 CA-DUR PIC X(20) JUST RIGHT.
7800*01 COUNTY-B.
7900* 03 RACE.
8000* 04 WHITE PIC 9(10) JUST RIGHT.
8100* 04 BLACK PIC 9(10) JUST RIGHT.

```

8200*	04 AMERICAN-INDIAN	PIC 9(10)	JUST RIGHT.
8300*	04 MEXICAN-AMERICAN	PIC 9(10)	JUST RIGHT.
8400*	04 ORIENTAL	PIC 9(10)	JUST RIGHT.
8500*	04 OTHER-RACE	PIC 9(10)	JUST RIGHT.
8600*	04 CR-DUM	PIC X(20)	JUST RIGHT.
8700*01	COUNTY-B2.		
8800*	03 ETHNIC	PIC 9(10)	JUST RIGHT.
8900*	03 MARITAL-STATUS.		
9000*	04 MARRIED	PIC 9(10)	JUST RIGHT.
9100*	04 NEVER-MARRIED	PIC 9(10)	JUST RIGHT.
9200*	04 SEPARATED	PIC 9(10)	JUST RIGHT.
9300*	04 DIVORCED	PIC 9(10)	JUST RIGHT.
9400*	04 SPOUSE-DECEASED	PIC 9(10)	JUST RIGHT.
9500*	04 CR-DUM	PIC X(20)	JUST RIGHT.
9600*01	COUNTY-C05.		
9700*	03 AGE-TOTALS.		
9800*	04 A17-HANDER	PIC 9(7).	
9900*	04 A17-25	PIC 9(7).	
10000*	04 A25-35	PIC 9(7).	
10100*	04 A35-OVER	PIC 9(7).	
10200*	04 AVERAGE-AGE	PIC 9(2).	
10300*	04 AGE-DUM	PIC X(50).	
10400*01	COUNTY-C.		
10500*	03 VISIT-TOTAL.		
10600*	04 VTOTAL	PIC 9(7)	JUST RIGHT.
10700*	04 SUPPLY-ON-SCHED	PIC 9(7)	JUST RIGHT.
10800*	04 UNSCHED-ANNUAL-CHECK	PIC 9(7)	JUST RIGHT.
10900*	04 INTAKE	PIC 9(7)	JUST RIGHT.
11000*	04 REVIS-ANNUAL-CHECK	PIC 9(7)	JUST RIGHT.
11100*	04 REVISIT	PIC 9(7)	JUST RIGHT.
11200*	04 SUPPLY-ON-UNSCHED	PIC 9(7)	JUST RIGHT.
11300*	04 UNSCHED-NON-PROR	PIC 9(7)	JUST RIGHT.
11400*	04 CC1-DUM	PIC X(24)	JUST RIGHT.
11500*01	COUNTY-C1.		
11600*	03 UNSCHED-PROBLEM	PIC 9(7)	JUST RIGHT.
11700*	03 UNSCHED-PROBLEM-REV	PIC 9(7)	JUST RIGHT.
11800*	03 PREG-TOTAL.		
11900*	04 TOTAL-PREG	PIC 9(7)	JUST RIGHT.
12000*	04 BORN-ALIVE	PIC 9(7)	JUST RIGHT.
12100*	04 LAST-DELIVERY.		
12200*	05 BORN-ALIVE-TERM	PIC 9(7)	JUST RIGHT.
12300*	05 BORN-ALIVE-PRE	PIC 9(7)	JUST RIGHT.
12400*	05 BORN-DEAD	PIC 9(7)	JUST RIGHT.
12500*	05 MIS-ABORT	PIC 9(7)	JUST RIGHT.
12600*	04 CC2-DUM	PIC X(24)	JUST RIGHT.
12700*01	COUNTY-C2.		
12800*	04 NEVER-PREG	PIC 9(7)	JUST RIGHT.
12900*	04 PREG-OTHER	PIC 9(7)	JUST RIGHT.
13000*	04 UNKNOWN	PIC 9(7)	JUST RIGHT.
13100*	04 FETAL-DEATHS	PIC 9(7)	JUST RIGHT.
13200*	04 CHILDREN-NOW-ALIVE	PIC 9(7)	JUST RIGHT.
13300*	04 CC-DUM	PIC X(45)	JUST RIGHT.
13400*01	COUNTY-D.		
13500*	03 CONTRACEPTIVE-USE.		
13600*	04 PATIENTS-ONCE-USED	PIC 9(7)	JUST RIGHT.
13700*	04 METHOD-USED-MOST.		
13800*	05 NONE	PIC 9(7)	JUST RIGHT.
13900*	05 ORAL	PIC 9(7)	JUST RIGHT.
14000*	05 IUD	PIC 9(7)	JUST RIGHT.
14100*	05 DIAPHRAGM	PIC 9(7)	JUST RIGHT.
14200*	05 FOAM	PIC 9(7)	JUST RIGHT.
14300*	05 RYTHM	PIC 9(7)	JUST RIGHT.
14400*	05 CONDOM	PIC 9(7)	JUST RIGHT.
14500*	04 CC-DUM	PIC X(24)	JUST RIGHT.
14600*01	COUNTY-D1.		
14700*	04 INJECTION	PIC 9(7)	JUST RIGHT.
14800*	04 STERILIZATION	PIC 9(7)	JUST RIGHT.
14900*	04 OTHER-CONTRA	PIC 9(7)	JUST RIGHT.
15000*	04 METHOD-NOT-KNOWN	PIC 9(7)	JUST RIGHT.
15100*	04 METHOD-PRESCRIBED-BY.		
15200*	05 PRIV-DOCTOR	PIC 9(7)	JUST RIGHT.
15300*	05 PUB-CLINIC	PIC 9(7)	JUST RIGHT.
15400*	05 DRUGGIST	PIC 9(7)	JUST RIGHT.
15500*	05 OTHER	PIC 9(7)	JUST RIGHT.
15600*	04 CC1-DUM	PIC X(24)	JUST RIGHT.
15700*01	COUNTY-E.		
15800*	03 SERVICES-PROVIDED.		
15900*	04 CONTRACEP-COUN	PIC 9(7)	JUST RIGHT.
16100*	04 INFERTILITY-COUN	PIC 9(7)	JUST RIGHT.
16200*	04 ADOPTION-COUN	PIC 9(7)	JUST RIGHT.
16300*	04 SOCIAL-SER-COUN	PIC 9(7)	JUST RIGHT.
16400*	04 OTHER-COUN	PIC 9(7)	JUST RIGHT.

16500*	04	BLOOD-PRESSURE	PTC 9(7)	JUST	RIGHT.
16600*	04	VD-BLOOD-TEST	PTC 9(7)	JUST	RIGHT.
16700*	04	CF-DUM	PTC X(24)	JUST	RIGHT.
16800*	01	COUNTY-E1.			
16900*	04	HCT-HGE-TEST	PTC 9(7)	JUST	RIGHT.
17000*	04	BLOOD-TEST	PTC 9(7)	JUST	RIGHT.
17100*	04	VDRI-TEST.			
17200*	05	VDRL-TOTAL	PTC 9(7)	JUST	RIGHT.
17300*	05	VDRL-FDS	PTC 9(7)	JUST	RIGHT.
17400*	05	VDRL-NEG	PTC 9(7)	JUST	RIGHT.
17500*	04	PAP-SMEAR.			
17600*	05	PAP-TOTAL	PTC 9(7)	JUST	RIGHT.
17700*	05	PAP-FDS	PTC 9(7)	JUST	RIGHT.
17800*	05	PAP-NEG	PTC 9(7)	JUST	RIGHT.
17900*	04	CF1-DUM	PTC X(24)	JUST	RIGHT.
18000*	01	COUNTY-E2.			
18100*	04	GC-CULTURE.			
18200*	05	GC-TOTAL	PTC 9(7)	JUST	RIGHT.
18300*	05	GC-POS	PTC 9(7)	JUST	RIGHT.
18400*	05	GC-NEG	PTC 9(7)	JUST	RIGHT.
18500*	04	BRFAST-TOTAL	PTC 9(7)	JUST	RIGHT.
18600*	04	PSYCH-TEST-TOT	PTC 8(7)	JUST	RIGHT.
18800*	04	STICKLE-CELL-TEST.			
18900*	05	STICKLE-TOTAL	PTC 9(7)	JUST	RIGHT.
19000*	05	STICKLE-POS	PTC 9(7)	JUST	RIGHT.
19100*	04	CF2-DUM	PTC X(24)	JUST	RIGHT.
19200*	01	COUNTY-E3.			
19300*	04	STICKLE-NEG	PTC 9(7)	JUST	RIGHT.
19400*	04	STERILIZATION-TOT	PTC 9(7)	JUST	RIGHT.
19500*	04	INFERTILITY-TOTAL	PTC 9(7)	JUST	RIGHT.
19600*	04	PREGNANCY-TEST.			
19700*	05	PREG-TEST-TOTAL	PTC 9(7)	JUST	RIGHT.
19800*	05	PREG-FDS	PTC 9(7)	JUST	RIGHT.
19900*	05	PREG-NEG	PTC 9(7)	JUST	RIGHT.
20000*	04	OTHER-TEST	PTC 9(7)	JUST	RIGHT.
20100*	04	CF-DUM	PTC X(31)	JUST	RIGHT.
20200*	01	COUNTY-F.			
20300*	03	CONTRA-METHOD-AFTER-VISIT.			
20400*	04	NO-METHOD	PTC 9(7)	JUST	RIGHT.
20500*	04	ORAL-TOTAL	PTC 9(7)	JUST	RIGHT.
20600*	04	IUD-TOTAL	PTC 9(7)	JUST	RIGHT.
20700*	04	DIA-TOTAL	PTC 9(7)	JUST	RIGHT.
20800*	04	FOAM-TOTAL	PTC 9(7)	JUST	RIGHT.
20900*	04	RHYTHM-TOTAL	PTC 9(7)	JUST	RIGHT.
21000*	04	CONDOM-TOTAL	PTC 9(7)	JUST	RIGHT.
21100*	04	INJECTION-TOTAL	PTC 9(7)	JUST	RIGHT.
21200*	04	CF-DUM	PTC X(24)	JUST	RIGHT.
21300*	01	COUNTY-F1.			
21400*	04	STERILIZA-TOTAL	PTC 9(7)	JUST	RIGHT.
21500*	04	OTHER-CONTRA-TOTAL	PTC 9(7)	JUST	RIGHT.
21600*	04	REASON-STER-METHOD.			
21700*	05	PREG-PLAN-TOTAL	PTC 9(7)	JUST	RIGHT.
21800*	05	PREG-IMPLAN-TOT	PTC 9(7)	JUST	RIGHT.
21900*	05	SEPK-PREG-TOTAL	PTC 9(7)	JUST	RIGHT.
22000*	05	MEDICAL-REASON-TOT	PTC 9(7)	JUST	RIGHT.
22100*	05	OTHER-REASON-TOTAL	PTC 9(7)	JUST	RIGHT.
22200*	05	CF-DUM	PTC X(31)	JUST	RIGHT.
22300*	01	COUNTY-G.			
22400*	03	REFERRED-ELSEWHERE.			
22500*	04	TOTAL-REFERRED	PTC 9(7)	JUST	RIGHT.
22600*	04	SOC-SEF-TOTAL	PTC 9(7)	JUST	RIGHT.
22700*	04	MED-SEF-TOTAL	PTC 9(7)	JUST	RIGHT.
22800*	04	STERILIZATION-REF	PTC 9(7)	JUST	RIGHT.
22900*	04	ABORTION-TOTAL	PTC 9(7)	JUST	RIGHT.
23000*	04	INFERTIL-TREAT-TOT	PTC 9(7)	JUST	RIGHT.
23100*	04	OTHER-REFERRED-TOTAL	PTC 9(7)	JUST	RIGHT.
23200*	03	PATIENT-SEEN-BY.			
23300*	04	PHYSICIAN-TOTAL	PTC 9(7)	JUST	RIGHT.
23400*	04	CG-DUM	PTC X(24)	JUST	RIGHT.
23500*	01	COUNTY-G1.			
23600*	04	P-H-N-TOTAL	PTC 9(7)	JUST	RIGHT.
23700*	04	F-P-H-N-TOTAL	PTC 9(7)	JUST	RIGHT.
23800*	04	NURSE-MIDWIFE-TOT	PTC 9(7)	JUST	RIGHT.
23900*	04	L-P-N-TOTAL	PTC 9(7)	JUST	RIGHT.
24000*	04	SOCIAL-SEF-TOTAL	PTC 9(7)	JUST	RIGHT.
24100*	04	AIDE-TOTAL	PTC 9(7)	JUST	RIGHT.
24200*	04	CLERK-TOTAL	PTC 9(7)	JUST	RIGHT.
24300*	04	NUTRITIONIST-TOT	PTC 9(7)	JUST	RIGHT.
24400*	04	CG1-DUM	PTC X(24).		
24500*	01	COUNTY-G2.			
24600*	04	OTHER-HANDLED-TOT	PTC 9(7)	JUST	RIGHT.
24700*	04	CG-DUM	PTC X(73)	JUST	RIGHT.

24800*01 COUNTY-H.
24900* 02 REFERRAL-SOURCE.
25000* 04 SELF-TOTAL PTC 9(7) JUST RIGHT.
25100* 04 OUTREACH-WORKER-TOT PTC 9(7) JUST RIGHT.
25200* 04 OTHER-FF-CLINIC-TOT PTC 9(7) JUST RIGHT.
25300* 04 HOSP-HEALTH-AGENCY-TOT PTC 9(7) JUST RIGHT.
25400* 04 PRIV-DOC-NURSE-TOTAL PTC 9(7) JUST RIGHT.
25500* 04 WELFARE-AGENCY-TOT PTC 9(7) JUST RIGHT.
25600* 04 ANOTHER-CLINIC-PAT-TOT PTC 9(7) JUST RIGHT.
25700* 04 FAM-FRIEND-TOT PTC 9(7) JUST RIGHT.
25800* 04 CH-DUM PTC X(24) JUST RIGHT.
25900*01 COUNTY-H1.
26000* 04 TV-PADIC-NEWSPAPER-TOT PTC 9(7) JUST RIGHT.
26100* 04 REFERRED-BY-OTHER-TOTAL PTC 9(7) JUST RIGHT.
26200* 04 REFERRED-BY-UNKNOWN-TOT PTC 9(7) JUST RIGHT.
26300* 04 CH1-DUM PTC X(59) JUST RIGHT.
26400*01 COUNTY-I.
26500* 02 NEXT-APPOINTMENT-PIIP.
26600* 04 SUPPLY-STRING-CHK-TOT PTC 9(7) JUST RIGHT.
26700* 04 ANNUAL-FYAM-TOTAL PTC 9(7) JUST RIGHT.
26800* 04 MEDICAL-PROR-TOTAL PTC 9(7) JUST RIGHT.
26900* 04 OTHER-APPIN-TOTAL PTC 9(7) JUST RIGHT.
27000* 04 NO-NEXT-APPOIN-TOT PTC 9(7) JUST RIGHT.
27100* 02 REASON-FDE-DISCHARG.
27200* 04 STERIL-APPOIN-TOTAL PTC 9(7) JUST RIGHT.
27300* 04 MENOPAUSE-TOTAL PTC 9(7) JUST RIGHT.
27400* 04 MEDICAL-REAS-TOTAL PTC 9(7) JUST RIGHT.
27500* 04 CI-DUM PTC X(24) JUST RIGHT.
27600*01 COUNTY-I1.
27700* 02 PATIENT-MOVED-TOTAL PTC 9(7) JUST RIGHT.
27800* 04 PREG-DESIRE-TOTAL PTC 9(7) JUST RIGHT.
27900* 04 PREG-UNFLAN-TOTAL PTC 9(7) JUST RIGHT.
28000* 04 UNKNOWN-DISCHAR-REAS-TOT PTC 9(7) JUST RIGHT.
28100* 04 CI-DUM PTC X(45) JUST RIGHT.
28200* WORKING-STORAGE SECTION.
28300*01 R-HOLD PTC XXX.
28400*01 RREFAK.
28500* 02 R-1 PTC CC.
28600* 02 R-2 PTC CC.
28700* 02 R-3 PTC CC.
28800*01 RREFAK-IIP.
28900* 02 R-1 PTC CC.
29000* 02 S-1 PTC X VALUE "/".
29100* 02 R-2 PTC CC.
29200* 02 S-2 PTC X VALUE "/".
29300* 02 R-3 PTC CC.
29400*01
29500* PROCEDURE DIVISION.
29600* OPEN-UP SECTION.
29700* READY-FILES.
29800* OPEN OUTPUT REPORT-MASTER.
29900* LEARN-REPORT.
30000* DISPLAY "REPORT-NUMBER?".
30100* MOVE SPACES TO LEADING-A.
30200* ACCEPT R-HOLD.
30300* GO TO CHECK-R-NUM.
30400* SFT-UP.
30500* MOVE SPACES TO LEADING-A.
30600* WRITE HEADING-A AFTER ADVANCING CHANNEL 1.
30700* MOVE "REGIONAL DATA NETWORK" TO TITLE-1.
30800* WRITE HEADING-A; MOVE SPACES TO LEADING-A; HEADING-B.
30900* MOVE REPORT-NAME TO REPORT-NUM; MOVE "DATE PRODUCED"
31100* TO DATE-OF-REPORT; MOVE TODAYS-DATE TO BREAKER;
31200* MOVE CORR BREAKER TO BREAK-UP.
31300* MOVE BREAK-UP TO D-D-R; MOVE "DATA COVERS TIME FROM"
31400* TO TIME-SPAN; MOVE "00/00/00" TO T-S-1.
31500* MOVE " TO " TO INT; MOVE "99/99/99" TO T-S-2.
31600* MOVE R-HOLD TO R-NUM.
31700* WRITE HEADING-R.
31800* MOVE SPACES TO LEADING-C.
31900* IF R-HOLD EQUALS "R-1" MOVE "PATIENT PROFILE DATA"
32000* TO REPORT-NAME.
32100* IF R-HOLD EQUALS "R-2" MOVE "CLINIC DATA" TO
32200* REPORT-NAME.
32300* IF R-HOLD EQUALS "R-3" MOVE "VISIT DATA" TO
32400* REPORT-NAME.
32500* IF R-HOLD EQUALS "R-4" MOVE "PREGNANCY DATA"
32600* TO REPORT-NAME.
32700* IF R-HOLD EQUALS "R-5" MOVE "CONTRACEPTIVE DATA (B.V.)"
32800* TO REPORT-NAME.
32900* IF R-HOLD EQUALS "R-6" MOVE "SERVICES RECEIVED DATA"
33000* TO REPORT-NAME.


```

40800* WRITE HEADING=F.
40900* MOVE SPACES TO ITEM;MOVE "AMERICAN INDIAN" TO ITEM.
41000* WRITE HEADING=F.
41100* MOVE SPACES TO ITEM;MOVE "MEXICAN AMERICAN" TO ITEM.
41200* WRITE HEADING=F.
41300* MOVE SPACES TO ITEM;MOVE "ORIENTAL" TO ITEM.
41400* WRITE HEADING=F.
41500* MOVE SPACES TO ITEM;MOVE "OTHER RACES" TO ITEM.
41600* WRITE HEADING=F.
41700* MOVE SPACES TO ITEM;MOVE "ETHNIC" TO ITEM.
41800* WRITE HEADING=F.
41900* MOVE SPACES TO ITEM;MOVE "MARRIED" TO ITEM.
42000* WRITE HEADING=F.
42100* MOVE SPACES TO ITEM;MOVE "NEVER-MARRIED" TO ITEM.
42200* WRITE HEADING=F.
42300* MOVE SPACES TO ITEM;MOVE "SEPARATED" TO ITEM.
42400* WRITE HEADING=F.
42500* MOVE SPACES TO ITEM;MOVE "DIVORCED" TO ITEM.
42600* WRITE HEADING=F.
42700* MOVE SPACES TO ITEM;MOVE "SPOUSE DECEASED" TO ITEM.
42800* WRITE HEADING=F.
42900* MOVE SPACES TO ITEM;MOVE "AVERAGE AGE" TO ITEM.
43000* WRITE HEADING=F.
43100* MOVE SPACES TO ITEM;MOVE "UNDER 17" TO ITEM.
43200* WRITE HEADING=F.
43300* MOVE SPACES TO ITEM;MOVE "17-25" TO ITEM.
43400* WRITE HEADING=F.
43500* MOVE SPACES TO ITEM;MOVE "25-35" TO ITEM.
43600* WRITE HEADING=F.
43700* MOVE SPACES TO ITEM;MOVE "OVER 35" TO ITEM.
43800* WRITE HEADING=F.
43900*R=1R.
44000* PERFORM SET-UP.
44100* PERFORM SEC-STATES.
44200* PERFORM CHECK-REPORT.
44300* PERFORM P=1A.
44400* GO TO LEARN-REPORT.
44500*S
44600* SEC-HALF-R=1.
44700* PERFORM SET-UP.
44800* PERFORM FIRST-STATES.
44900* PERFORM CHECK-REPORT.
45000*R=2.
45100* PERFORM SEC-HALF-R=1.
45200*R=2A.
45300* MOVE SPACES TO ITEM.
45400* WRITE HEADING=F.
45500* MOVE SPACES TO ITEM;MOVE "NUMBER OF WORKERS"
45600* TO ITEM;WRITE HEADING=F.
45700* MOVE SPACES TO ITEM;MOVE "ADMINISTRATOR/DIRECTOR"
45800* TO ITEM.
45900* WRITE HEADING=F.
46000* MOVE SPACES TO ITEM;MOVE "PHYSICIAN" TO ITEM.
46100* WRITE HEADING=F.
46200* MOVE SPACES TO ITEM;MOVE "PHYSICIAN S ASSISTANT"
46300* TO ITEM.
46400* WRITE HEADING=F.
46500* MOVE SPACES TO ITEM;MOVE "REGISTERED NURSE" TO ITEM.
46600* WRITE HEADING=F.
46700* MOVE SPACES TO ITEM;MOVE "NURSE MIDWIFE/NURSE PRACTITIONER"
46800* TO ITEM;WRITE HEADING=F.
46900* MOVE SPACES TO ITEM;MOVE "LICENSED PRACTICAL NURSE"
47000* TO ITEM;WRITE HEADING=F.
47100* MOVE SPACES TO ITEM;MOVE "CLINIC AIDE" TO ITEM.
47200* WRITE HEADING=F.
47300* MOVE SPACES TO ITEM;MOVE "NUTRITIONIST" TO ITEM.
47400* WRITE HEADING=F.
47500* MOVE SPACES TO ITEM;MOVE "HEALTH EDUCATOR" TO ITEM.
47600* WRITE HEADING=F.
47700* MOVE SPACES TO ITEM;MOVE "SOCIAL WORKER" TO ITEM.
47800* WRITE HEADING=F.
47900* MOVE SPACES TO ITEM;MOVE "CLERK/SECRETARY" TO ITEM.
48000* WRITE HEADING=F.
48100* MOVE SPACES TO ITEM;MOVE "OUTREACH WORKER" TO ITEM.
48200* WRITE HEADING=F.
48300* MOVE SPACES TO ITEM; MOVE "OTHER" TO ITEM.
48400* WRITE HEADING=F.
48500*R=2B
48600* PERFORM SET-UP.
48700* PERFORM SEC-STATES.
48800* PERFORM CHECK-REPORT.
48900* PERFORM P=2A.
49000* GO TO LEARN-REPORT.

```

```

40100 *R-3.
40200 * PERFORM SEC-HALF-R-1.
40300 *R-3A.
40400 * MOVE SPACES TO ITEM.
40500 * MOVE "TOTAL VISITS" TO ITEM;WRITE HEADING-F.
40600 * MOVE SPACES TO ITEM;MOVE "SUPPLY ONLY (SCHEDULED)"
40700 * TO ITEM;WRITE HEADING-F.
40800 * MOVE SPACES TO ITEM;MOVE "ANNUAL CHECKUP (UNSCHEDULED)"
40900 * TO ITEM;WRITE HEADING-F.
50000 * MOVE SPACES TO ITEM;MOVE "INTAKE" TO ITEM.
50100 * WRITE HEADING-F.
50200 * MOVE SPACES TO ITEM;MOVE "ANNUAL CHECKUP (SCHEDULED)"
50300 * TO ITEM;WRITE HEADING-F.
50400 * MOVE SPACES TO ITEM;MOVE "REVISIT" TO ITEM.
50500 * WRITE HEADING-F.
50600 * MOVE SPACES TO ITEM;MOVE "SUPPLY ONLY (UNSCHEDULED)"
50700 * TO ITEM;WRITE HEADING-F.
50800 * MOVE SPACES TO ITEM;MOVE "NON PROBLEM (UNSCHEDULED)"
50900 * TO ITEM;WRITE HEADING-F.
51000 * MOVE SPACES TO ITEM;MOVE "PROBLEM (UNSCHEDULED)"
51100 * TO ITEM;WRITE HEADING-F.
51200 * MOVE SPACES TO ITEM;MOVE "PROBLEM REVISIT (UNSCHEDULED)"
51300 * TO ITEM;WRITE HEADING-F.
51400 *R-3B.
51500 * PERFORM SET-UP.
51600 * PERFORM SEC-STATES.
51700 * PERFORM CHECK-REPORT.
51800 * PERFORM R-3A.
51900 * GO TO LEARN-REPORT.
52000 *R-4.
52100 * PERFORM SEC-HALF-R-1.
52200 *R-4A.
52300 * MOVE SPACES TO ITEM;MOVE "TOTAL PREGNACIES PAST"
52400 * TO ITEM.
52500 * WRITE HEADING-F.
52600 * MOVE SPACES TO ITEM;MOVE "BORN ALIVE-TERMINATED"
52700 * TO ITEM.
52800 * WRITE HEADING-F.
52900 * MOVE SPACES TO ITEM;MOVE "BORN ALIVE-PREMATURE"
53000 * TO ITEM.
53100 * WRITE HEADING-F.
53200 * MOVE SPACES TO ITEM;MOVE "BORN DEAD" TO ITEM.
53300 * WRITE HEADING-F.
53400 * MOVE SPACES TO ITEM;MOVE "MISCARRIAGE-ABORTION"
53500 * TO ITEM.
53600 * WRITE HEADING-F.
53700 * MOVE SPACES TO ITEM;MOVE "NEVER PREGNANT" TO ITEM.
53800 * WRITE HEADING-F.
53900 * MOVE SPACES TO ITEM;MOVE "OTHER" TO ITEM.
54000 * WRITE HEADING-F.
54100 * MOVE SPACES TO ITEM;MOVE "UNKNOWN" TO ITEM.
54200 * WRITE HEADING-F.
54300 * MOVE SPACES TO ITEM;MOVE "FETAL DEATHS" TO ITEM.
54400 * MOVE SPACES TO ITEM;MOVE "CHILDREN NOW ALIVE" TO ITEM.
54600 * WRITE HEADING-F.
54700 *R-4B.
54800 * PERFORM SET-UP.
54900 * PERFORM SEC-STATES.
55000 * PERFORM CHECK-REPORT.
55100 * PERFORM R-4A.
55200 * GO TO LEARN-REPORT.
55300 *R-5.
55400 * PERFORM SEC-HALF-R-1.
55500 *R-5A.
55600 * MOVE SPACES TO ITEM;MOVE "PATIENTS USED CONTRA. METHOD"
55700 * TO ITEM.
55800 * WRITE HEADING-F.
55900 * MOVE SPACES TO ITEM;MOVE "NO METHOD USED" TO ITEM.
56000 * WRITE HEADING-F.
56100 * MOVE SPACES TO ITEM;MOVE "ORAL" TO ITEM.
56200 * WRITE HEADING-F.
56300 * MOVE SPACES TO ITEM;MOVE "IUD" TO ITEM.
56400 * WRITE HEADING-F.
56500 * MOVE SPACES TO ITEM;MOVE "DIAPHRAGM" TO ITEM.
56600 * WRITE HEADING-F.
56700 * MOVE SPACES TO ITEM;MOVE "FOAM" TO ITEM.
56800 * WRITE HEADING-F.
56900 * MOVE SPACES TO ITEM;MOVE "RHYTHM" TO ITEM.
57000 * WRITE HEADING-F.
57100 * MOVE SPACES TO ITEM;MOVE "CONDOM" TO ITEM.
57200 * WRITE HEADING-F.
57300 * MOVE SPACES TO ITEM;MOVE "INJECTION" TO ITEM.

```



```

57400* WRITE HEADING=F.
57500* MOVE SPACES TO ITEM;MOVE "STERILIZATION" TO ITEM.
57600* WRITE HEADING=F.
57700* MOVE SPACES TO ITEM;MOVE "OTHER" TO ITEM.
57800* WRITE HEADING=F.
57900* MOVE SPACES TO ITEM;MOVE "METHOD NOT KNOWN" TO ITEM.
58000* WRITE HEADING=F.
58100* MOVE SPACES TO ITEM;MOVE "DOCTOR PRESCRIBED" TO ITEM.
58200* WRITE HEADING=F.
58300* MOVE SPACES TO ITEM;MOVE "PUBLIC CLINIC PERSC." TO
58400* ITEM.
58500* WRITE HEADING=F.
58600* MOVE SPACES TO ITEM;MOVE "DRUGGIST PRESCRIBED" TO ITEM.
58700* WRITE HEADING=F.
58800* MOVE SPACES TO ITEM;MOVE "OTHER PRESCRIBED" TO ITEM.
58900* WRITE HEADING=F.
59000* R=5B.
59100* PERFORM SET-UP.
59200* PERFORM SEC-STATES.
59300* PERFORM CHECK-REPORT.
59400* PERFORM R=5A.
59500* GO TO LEARN-REPORT.
59600* R=6.
59700* PERFORM SEC-HALL-R=1.
59800* R=AA.
59900* MOVE SPACES TO ITEM;MOVE "CONTRACEPTIVE COUNSELING" TO
60000* ITEM.
60100* WRITE HEADING=F.
60200* MOVE SPACES TO ITEM;MOVE "STERILIZATION COUNSELING" TO
60300* ITEM.
60400* WRITE HEADING=F.
60500* MOVE SPACES TO ITEM;MOVE "INFERTILITY COUNSELING" TO
60600* ITEM.
60700* WRITE HEADING=F.
60800* MOVE SPACES TO ITEM;MOVE "ABORTION COUNSELING" TO ITEM.
60900* WRITE HEADING=F.
61000* MOVE SPACES TO ITEM;MOVE "SOCIAL SERVICES COUNSELING"
61100* TO ITEM.
61200* WRITE HEADING=F.
61300* MOVE SPACES TO ITEM;MOVE "OTHER COUNSELING" TO ITEM.
61400* WRITE HEADING=F.
61500* MOVE SPACES TO ITEM;MOVE "BLOOD PRESSURE" TO ITEM.
61600* MOVE SPACES TO ITEM;MOVE "VD BLOOD TEST" TO ITEM.
61700* WRITE HEADING=F.
61800* WRITE HEADING=F.
61900* MOVE SPACES TO ITEM;MOVE "VDRL TEST" TO ITEM.
62000* WRITE HEADING=F.
62100* MOVE SPACES TO ITEM;MOVE "POSITIVE VDRL TESTS" TO
62200* ITEM.
62300* WRITE HEADING=F.
62400* MOVE SPACES TO ITEM;MOVE "NEGATIVE VDRL TESTS" TO ITEM.
62500* WRITE HEADING=F.
62600* MOVE SPACES TO ITEM;MOVE "PAP-SMEAR" TO ITEM.
62700* WRITE HEADING=F.
62800* MOVE SPACES TO ITEM;MOVE "POSITIVE PAP SMEARS"
62900* TO ITEM.
63000* WRITE HEADING=F.
63100* MOVE SPACES TO ITEM;MOVE "NEGATIVE PAP SMEARS"
63200* TO ITEM.
63300* WRITE HEADING=F.
63400* MOVE SPACES TO ITEM;MOVE "GC CULTURE" TO ITEM.
63500* WRITE HEADING=F.
63600* MOVE SPACES TO ITEM;MOVE "POSITIVE GC CULTURES"
63700* TO ITEM.
63800* WRITE HEADING=F.
63900* MOVE SPACES TO ITEM;MOVE "NEGATIVE GC CULTURES"
64000* TO ITEM.
64100* WRITE HEADING=F.
64200* MOVE SPACES TO ITEM;MOVE "BREAST EXAMINATION" TO ITEM.
64300* WRITE HEADING=F.
64400* MOVE SPACES TO ITEM;MOVE "PELVIC EXAMINATION" TO ITEM.
64500* WRITE HEADING=F.
64600* MOVE SPACES TO ITEM;MOVE "URINALYSIS" TO ITEM.
64700* WRITE HEADING=F.
64800* MOVE SPACES TO ITEM;MOVE "SICKLE CELL ANEMIA TEST" TO
64900* ITEM.
65000* WRITE HEADING=F.
65100* MOVE SPACES TO ITEM;MOVE "POSITIVE SICKLE CELL" TO ITEM.
65200* WRITE HEADING=F.
65300* MOVE SPACES TO ITEM;MOVE "NEGATIVE SICKLE CELL" TO ITEM.
65400* WRITE HEADING=F.
65500* MOVE SPACES TO ITEM;MOVE "STERILIZATION" TO ITEM.
65600* WRITE HEADING=F.

```

```

65700+ MOVE SPACES TO ITEM;MOVE "INFERTILITY" TO ITEM.
65800+ WRITE HEADING=F.
65900+ MOVE SPACES TO ITEM;MOVE "PREGNANCY TEST" TO ITEM.
66000+ WRITE HEADING=F.
66100+ MOVE SPACES TO ITEM;MOVE "POSITIVE PREGNANCY TEST" TO
66200+ ITEM.
66300+ WRITE HEADING=F.
66400+ MOVE SPACES TO ITEM;MOVE "NEGATIVE PREGNANCY TEST" TO
66500+ ITEM.
66600+ MOVE SPACES TO ITEM;MOVE "OTHER TEST" TO ITEM.
66700+ WRITE HEADING=F.
66800+ R=6R.
66900+ PERFORM SET-UP.
67000+ PERFORM SEC-STATS.
67100+ PERFORM CHECK-REPORT.
67200+ PERFORM R=6A.
67300+ GO TO LEARN-REPORT.
67305+ R=7.
67310+ PERFORM SEC-HALF-P-1.
67315+ R=7A.
67320+ MOVE SPACES TO ITEM;MOVE "NO CONTRACEPTIVE METHOD" TO
67325+ ITEM.
67330+ WRITE HEADING=F.
67335+ MOVE SPACES TO ITEM;MOVE "ORAL" TO ITEM.
67340+ WRITE HEADING=F.
67345+ MOVE SPACES TO ITEM;MOVE "IUD" TO ITEM.
67350+ WRITE HEADING=F.
67355+ MOVE SPACES TO ITEM;MOVE "DIAPHRAGM" TO ITEM.
67360+ WRITE HEADING=F.
67365+ MOVE SPACES TO ITEM;MOVE "FOAM" TO ITEM.
67370+ WRITE HEADING=F.
67375+ MOVE SPACES TO ITEM;MOVE "RYTHM" TO ITEM.
67380+ WRITE HEADING=F.
67385+ MOVE SPACES TO ITEM;MOVE "CONDOM" TO ITEM.
67390+ WRITE HEADING=F.
67395+ MOVE SPACES TO ITEM;MOVE "INJECTION" TO ITEM.
67400+ WRITE HEADING=F.
67405+ MOVE SPACES TO ITEM;MOVE "STERILIZATION" TO ITEM.
67410+ WRITE HEADING=F.
67415+ MOVE SPACES TO ITEM;MOVE "OTHER CONTRACEPTIVE AFTER VISIT"
67420+ TO ITEM.
67425+ WRITE HEADING=F.
67430+ MOVE SPACES TO ITEM;MOVE "STOPPED-PREGNANT(PLANNED)"
67435+ TO ITEM.
67440+ WRITE HEADING=F.
67445+ MOVE SPACES TO ITEM;MOVE "STOPPED-PREGNANT(UNPLANNED)"
67450+ TO ITEM.
67455+ WRITE HEADING=F.
67460+ MOVE SPACES TO ITEM;MOVE "STOPPED-SEEKING PREGNANCY"
67465+ TO ITEM.
67470+ WRITE HEADING=F.
67475+ MOVE SPACES TO ITEM;MOVE "STOPPED-MEDICAL REASON" TO
67480+ ITEM.
67485+ WRITE HEADING=F.
67490+ MOVE SPACES TO ITEM;MOVE "STOPPED CONTRACEPTIVE-OTHER REASON"
67495+ TO ITEM.
67500+ WRITE HEADING=F.
67505+ R=7R.
67510+ PERFORM SET-UP.
67515+ PERFORM SEC-STATS.
67520+ PERFORM CHECK-REPORT.
67525+ PERFORM R=7A.
67530+ GO TO LEARN-REPORT.
67535+ R=8.
67540+ PERFORM SEC-HALF-R-1.
67545+ R=8A.
67550+ MOVE SPACES TO ITEM;MOVE "TOTAL REFERRED" TO ITEM.
67555+ WRITE HEADING=F.
67560+ MOVE SPACES TO ITEM;MOVE "REF. TO SOCIAL SER." TO ITEM.
67565+ WRITE HEADING=F.
67570+ MOVE SPACES TO ITEM;MOVE "REF.-MEDICAL SERVICES" TO
67575+ ITEM.
67580+ WRITE HEADING=F.
67585+ MOVE SPACES TO ITEM;MOVE "REF. FOR STERILIZATION" TO
67590+ ITEM.
67595+ WRITE HEADING=F.
67600+ MOVE SPACES TO ITEM;MOVE "REF. FOR ABORTION" TO ITEM.
67605+ WRITE HEADING=F.
67610+ MOVE SPACES TO ITEM;MOVE "REF. FOR INFERT. TREAT"
67615+ TO ITEM.
67620+ WRITE HEADING=F.
67625+ MOVE SPACES TO ITEM;MOVE "OTHER REF." TO ITEM.
67630+ WRITE HEADING=F.

```


REPORT#R-1	DATE PRODUCED	REGIONAL DATA NETWORK 5/2/11/76		DATA COVERS TIME FROM 00/00/00 TO 99/99/99					
PATIENT PROFILE DATA	ITEM	REGION TOTAL PER	ALABAMA TOTAL PER	FLORIDA TOTAL PER	GEORGIA TOTAL PER	KENTUCKY TOTAL PER			
PATIENT TOTAL	**	300000	001**	000000	001**	000000	001**	000000	001**
NUMBER OF VISITS	**	300000	001**	000000	001**	000000	001**	000000	001**
MEDICAL PATIENTS	**	300000	001**	000000	001**	000000	001**	000000	001**
MALES	**	100000	001**	000000	001**	000000	001**	000000	001**
FEMALES	**	200000	001**	000000	001**	000000	001**	000000	001**
BLACK	**	000000	001**	000000	001**	000000	001**	000000	001**
WHITE	**	000000	001**	000000	001**	000000	001**	000000	001**
AMERICAN INDIAN	**	000000	001**	000000	001**	000000	001**	000000	001**
MEXICAN AMERICAN	**	000000	001**	000000	001**	000000	001**	000000	001**
OTHER RACES	**	000000	001**	000000	001**	000000	001**	000000	001**
ETHNIC	**	000000	001**	000000	001**	000000	001**	000000	001**
MARRIED	**	000000	001**	000000	001**	000000	001**	000000	001**
NEVER MARRIED	**	000000	001**	000000	001**	000000	001**	000000	001**
SEPARATED	**	000000	001**	000000	001**	000000	001**	000000	001**
DIVORCED	**	000000	001**	000000	001**	000000	001**	000000	001**
SINGLE DECEASED	**	000000	001**	000000	001**	000000	001**	000000	001**
AVERAGE AGE	**	000000	001**	000000	001**	000000	001**	000000	001**
UNDER 17	**	000000	001**	000000	001**	000000	001**	000000	001**
17-25	**	000000	001**	000000	001**	000000	001**	000000	001**
25-35	**	000000	001**	000000	001**	000000	001**	000000	001**
OVER 35	**	000000	001**	000000	001**	000000	001**	000000	001**

REPORT#R-2	DATE PRODUCED	REGIONAL DATA NETWORK 5/2/11/76		DATA COVERS TIME FROM 00/00/00 TO 99/99/99					
CLINIC DATA	ITEM	REGION TOTAL PER	ALABAMA TOTAL PER	FLORIDA TOTAL PER	GEORGIA TOTAL PER	KENTUCKY TOTAL PER			
NUMBER OF CLINICS	**	000000	001**	000000	001**	000000	001**	000000	001**
NUMBER OF WORKERS	**	000000	001**	000000	001**	000000	001**	000000	001**
ADMINISTRATOR/DIRECTOR	**	000000	001**	000000	001**	000000	001**	000000	001**
PHYSICIAN	**	000000	001**	000000	001**	000000	001**	000000	001**
PHYSICIAN'S ASSISTANT	**	000000	001**	000000	001**	000000	001**	000000	001**
REGISTERED NURSE	**	000000	001**	000000	001**	000000	001**	000000	001**
NURSE ASSISTANT/NURSE PRACTIT	**	000000	001**	000000	001**	000000	001**	000000	001**
LICENSED PRACTICAL NURSE	**	000000	001**	000000	001**	000000	001**	000000	001**
CLINIC AIDE	**	000000	001**	000000	001**	000000	001**	000000	001**
NUTRITIONIST	**	000000	001**	000000	001**	000000	001**	000000	001**
HEALTH EDUCATOR	**	000000	001**	000000	001**	000000	001**	000000	001**
SOCIAL WORKER	**	000000	001**	000000	001**	000000	001**	000000	001**
CLERK/SECRETARY	**	000000	001**	000000	001**	000000	001**	000000	001**
OUTREACH NURSE	**	000000	001**	000000	001**	000000	001**	000000	001**
OTHER	**	000000	001**	000000	001**	000000	001**	000000	001**

REPORT#R-2	DATE PRODUCED	REGIONAL DATA NETWORK 5/2/11/76		DATA COVERS TIME FROM 00/00/00 TO 99/99/99					
CLINIC DATA	ITEM	MISSISSIPPI TOTAL PER	NORTH CAROLINA TOTAL PER	SOUTH CAROLINA TOTAL PER	TENNESSEE TOTAL PER	TOTAL PER			
NUMBER OF CLINICS	**	000000	001**	000000	001**	000000	001**	000000	001**
NUMBER OF WORKERS	**	000000	001**	000000	001**	000000	001**	000000	001**
ADMINISTRATOR/DIRECTOR	**	000000	001**	000000	001**	000000	001**	000000	001**
PHYSICIAN	**	000000	001**	000000	001**	000000	001**	000000	001**
PHYSICIAN'S ASSISTANT	**	000000	001**	000000	001**	000000	001**	000000	001**
REGISTERED NURSE	**	000000	001**	000000	001**	000000	001**	000000	001**
NURSE ASSISTANT/NURSE PRACTIT	**	000000	001**	000000	001**	000000	001**	000000	001**
LICENSED PRACTICAL NURSE	**	000000	001**	000000	001**	000000	001**	000000	001**
CLINIC AIDE	**	000000	001**	000000	001**	000000	001**	000000	001**
NUTRITIONIST	**	000000	001**	000000	001**	000000	001**	000000	001**
HEALTH EDUCATOR	**	000000	001**	000000	001**	000000	001**	000000	001**
SOCIAL WORKER	**	000000	001**	000000	001**	000000	001**	000000	001**
CLERK/SECRETARY	**	000000	001**	000000	001**	000000	001**	000000	001**
OUTREACH NURSE	**	000000	001**	000000	001**	000000	001**	000000	001**
OTHER	**	000000	001**	000000	001**	000000	001**	000000	001**

REPORT#R-3	DATE PRODUCED	REGIONAL DATA NETWORK 5/2/11/76		DATA COVERS TIME FROM 00/00/00 TO 99/99/99					
VISIT DATA	ITEM	REGION TOTAL PER	ALABAMA TOTAL PER	FLORIDA TOTAL PER	GEORGIA TOTAL PER	KENTUCKY TOTAL PER			
TOTAL VISITS	**	000000	001**	000000	001**	000000	001**	000000	001**
SUPPLY ONLY (NO HOURS)	**	000000	001**	000000	001**	000000	001**	000000	001**
ANNUAL CHECKUP (15 MIN)	**	000000	001**	000000	001**	000000	001**	000000	001**
INFANT	**	000000	001**	000000	001**	000000	001**	000000	001**
ANNUAL CHECKUP (30 MIN)	**	000000	001**	000000	001**	000000	001**	000000	001**
ADULT	**	000000	001**	000000	001**	000000	001**	000000	001**
SUPPLY ONLY (NO HOURS)	**	000000	001**	000000	001**	000000	001**	000000	001**
NOV. 1974 (15 MIN)	**	000000	001**	000000	001**	000000	001**	000000	001**
PROBLEM (15 MIN)	**	000000	001**	000000	001**	000000	001**	000000	001**
PROBLEM (30 MIN)	**	000000	001**	000000	001**	000000	001**	000000	001**

REPORT 4-4 REGIONAL DATA NETWORK DATE PRODUCED 12/11/76 DATA COVERS TIME FROM 00/00/00 TO 99/99/99

PREGNANCY DATA

ITEM	REGION TOTAL PER	ALABAMA TOTAL PER	FLORIDA TOTAL PER	GEORGIA TOTAL PER	KENTUCKY TOTAL PER
TOTAL PREGNANCIES PAST	000000 00%	000000 00%	000000 00%	000000 00%	000000 00%
BORN ALIVE-TERMINATED	000000 00%	000000 00%	000000 00%	000000 00%	000000 00%
BORN ALIVE-TOME AT BIRTH	000000 00%	000000 00%	000000 00%	000000 00%	000000 00%
BORN (H.O.)	000000 00%	000000 00%	000000 00%	000000 00%	000000 00%
MISCELLANEOUS ABORTION	000000 00%	000000 00%	000000 00%	000000 00%	000000 00%
NEVER PREGNANT	000000 00%	000000 00%	000000 00%	000000 00%	000000 00%
OTHER	000000 00%	000000 00%	000000 00%	000000 00%	000000 00%
UNKNOWN	000000 00%	000000 00%	000000 00%	000000 00%	000000 00%
FETAL DEATHS	000000 00%	000000 00%	000000 00%	000000 00%	000000 00%
CHILDREN BORN ALIVE	000000 00%	000000 00%	000000 00%	000000 00%	000000 00%

REPORT 4-5 REGIONAL DATA NETWORK DATE PRODUCED 12/11/76 DATA COVERS TIME FROM 00/00/00 TO 99/99/99

CONTRACEPTIVE DATA (H.V.)

ITEM	REGION TOTAL PER	ALABAMA TOTAL PER	FLORIDA TOTAL PER	GEORGIA TOTAL PER	KENTUCKY TOTAL PER
PATIENTS USING CONTRA. METHOD	000000 00%	000000 00%	000000 00%	000000 00%	000000 00%
NO METHOD USED	000000 00%	000000 00%	000000 00%	000000 00%	000000 00%
ORAL	000000 00%	000000 00%	000000 00%	000000 00%	000000 00%
IUD	000000 00%	000000 00%	000000 00%	000000 00%	000000 00%
DIAPHRAGM	000000 00%	000000 00%	000000 00%	000000 00%	000000 00%
FOLIA	000000 00%	000000 00%	000000 00%	000000 00%	000000 00%
RHYTHM	000000 00%	000000 00%	000000 00%	000000 00%	000000 00%
CONDOM	000000 00%	000000 00%	000000 00%	000000 00%	000000 00%
INJECTION	000000 00%	000000 00%	000000 00%	000000 00%	000000 00%
STERILIZATION	000000 00%	000000 00%	000000 00%	000000 00%	000000 00%
OTHER	000000 00%	000000 00%	000000 00%	000000 00%	000000 00%
METHOD NOT KNOWN	000000 00%	000000 00%	000000 00%	000000 00%	000000 00%
UNRECORDED	000000 00%	000000 00%	000000 00%	000000 00%	000000 00%
PUBLIC CLINIC PERIOD	000000 00%	000000 00%	000000 00%	000000 00%	000000 00%
ORIGINALLY PERIOD	000000 00%	000000 00%	000000 00%	000000 00%	000000 00%
OTHER PERIOD	000000 00%	000000 00%	000000 00%	000000 00%	000000 00%

REPORT 4-6 REGIONAL DATA NETWORK DATE PRODUCED 12/11/76 DATA COVERS TIME FROM 00/00/00 TO 99/99/99

SERVICES RECEIVED DATA

ITEM	REGION TOTAL PER	ALABAMA TOTAL PER	FLORIDA TOTAL PER	GEORGIA TOTAL PER	KENTUCKY TOTAL PER
CONTRACEPTIVE COUNSELING	000000 00%	000000 00%	000000 00%	000000 00%	000000 00%
STERILIZATION COUNSELING	000000 00%	000000 00%	000000 00%	000000 00%	000000 00%
INFECTION COUNSELING	000000 00%	000000 00%	000000 00%	000000 00%	000000 00%
ABORTION COUNSELING	000000 00%	000000 00%	000000 00%	000000 00%	000000 00%
SUBJECTIVE COUNSELING	000000 00%	000000 00%	000000 00%	000000 00%	000000 00%
OTHER COUNSELING	000000 00%	000000 00%	000000 00%	000000 00%	000000 00%
VD RUMOR TEST	000000 00%	000000 00%	000000 00%	000000 00%	000000 00%
VD RUMOR TEST	000000 00%	000000 00%	000000 00%	000000 00%	000000 00%
VD RUMOR TEST	000000 00%	000000 00%	000000 00%	000000 00%	000000 00%
POSITIVE VDRL TESTS	000000 00%	000000 00%	000000 00%	000000 00%	000000 00%
NEGATIVE VDRL TESTS	000000 00%	000000 00%	000000 00%	000000 00%	000000 00%
POSITIVE RPR TESTS	000000 00%	000000 00%	000000 00%	000000 00%	000000 00%
NEGATIVE RPR TESTS	000000 00%	000000 00%	000000 00%	000000 00%	000000 00%
POSITIVE VDRL TESTS	000000 00%	000000 00%	000000 00%	000000 00%	000000 00%
NEGATIVE VDRL TESTS	000000 00%	000000 00%	000000 00%	000000 00%	000000 00%
POSITIVE SIKEL CELL TEST	000000 00%	000000 00%	000000 00%	000000 00%	000000 00%
NEGATIVE SIKEL CELL TEST	000000 00%	000000 00%	000000 00%	000000 00%	000000 00%
POSITIVE SIKEL CELL TEST	000000 00%	000000 00%	000000 00%	000000 00%	000000 00%
NEGATIVE SIKEL CELL TEST	000000 00%	000000 00%	000000 00%	000000 00%	000000 00%
STERILIZATION	000000 00%	000000 00%	000000 00%	000000 00%	000000 00%
INFECTION	000000 00%	000000 00%	000000 00%	000000 00%	000000 00%
PREGNANCY TEST	000000 00%	000000 00%	000000 00%	000000 00%	000000 00%
POSITIVE PREGNANCY TEST	000000 00%	000000 00%	000000 00%	000000 00%	000000 00%
OTHER TEST	000000 00%	000000 00%	000000 00%	000000 00%	000000 00%

REPORT 4-7 REGIONAL DATA NETWORK DATE PRODUCED 12/11/76 DATA COVERS TIME FROM 00/00/00 TO 99/99/99

INTRACEPTIVE DATA (A.V.)

ITEM	REGION TOTAL PER	ALABAMA TOTAL PER	FLORIDA TOTAL PER	GEORGIA TOTAL PER	KENTUCKY TOTAL PER
CONTRACEPTIVE METHOD	000000 00%	000000 00%	000000 00%	000000 00%	000000 00%
ORAL	000000 00%	000000 00%	000000 00%	000000 00%	000000 00%
IUD	000000 00%	000000 00%	000000 00%	000000 00%	000000 00%
DIAPHRAGM	000000 00%	000000 00%	000000 00%	000000 00%	000000 00%
FOLIA	000000 00%	000000 00%	000000 00%	000000 00%	000000 00%
RHYTHM	000000 00%	000000 00%	000000 00%	000000 00%	000000 00%
CONDOM	000000 00%	000000 00%	000000 00%	000000 00%	000000 00%
INJECTION	000000 00%	000000 00%	000000 00%	000000 00%	000000 00%
STERILIZATION	000000 00%	000000 00%	000000 00%	000000 00%	000000 00%
OTHER	000000 00%	000000 00%	000000 00%	000000 00%	000000 00%
UNRECORDED	000000 00%	000000 00%	000000 00%	000000 00%	000000 00%
PUBLIC CLINIC PERIOD	000000 00%	000000 00%	000000 00%	000000 00%	000000 00%
ORIGINALLY PERIOD	000000 00%	000000 00%	000000 00%	000000 00%	000000 00%
OTHER PERIOD	000000 00%	000000 00%	000000 00%	000000 00%	000000 00%

REPORTER'S REFERRED ELSEWHERE DATA ITEM	DATE PRODUCED	REGIONAL DATA NETWORK 52/11/76		FLORIDA TOTAL PER		GEORGIA TOTAL PER		KENTUCKY TOTAL PER	
TOTAL REFERRED	**	000000	00%	000000	00%	000000	00%	000000	00%
REF. TO SPECIAL SERV.	**	000000	00%	000000	00%	000000	00%	000000	00%
REF. TO MEDICAL SERVICES	**	000000	00%	000000	00%	000000	00%	000000	00%
REF. FOR STERILIZATION	**	000000	00%	000000	00%	000000	00%	000000	00%
REF. FOR ABORTION	**	000000	00%	000000	00%	000000	00%	000000	00%
REF. FOR INFERT. TREAT	**	000000	00%	000000	00%	000000	00%	000000	00%
OTHER REF.	**	000000	00%	000000	00%	000000	00%	000000	00%

REPORTER'S PATIENT HANDLED BY ITEM	DATE PRODUCED	REGIONAL DATA NETWORK 52/11/76		FLORIDA TOTAL PER		GEORGIA TOTAL PER		KENTUCKY TOTAL PER	
REF. BY PHYSICIAN	**	000000	00%	000000	00%	000000	00%	000000	00%
REF. BY NURSE	**	000000	00%	000000	00%	000000	00%	000000	00%
REF. BY NURSE/MIDWIFE	**	000000	00%	000000	00%	000000	00%	000000	00%
REF. BY SOCIAL SERVICES	**	000000	00%	000000	00%	000000	00%	000000	00%
REF. BY AIDE	**	000000	00%	000000	00%	000000	00%	000000	00%
REF. BY NUTRITIONIST	**	000000	00%	000000	00%	000000	00%	000000	00%
REF. BY OTHER	**	000000	00%	000000	00%	000000	00%	000000	00%

REPORTER'S REFERRAL SOURCE DATA ITEM	DATE PRODUCED	REGIONAL DATA NETWORK 52/11/76		FLORIDA TOTAL PER		GEORGIA TOTAL PER		KENTUCKY TOTAL PER	
REF. BY SELF	**	000000	00%	000000	00%	000000	00%	000000	00%
REF. BY REACH WORKER	**	000000	00%	000000	00%	000000	00%	000000	00%
REF. BY HEALTH PR. CLINIC	**	000000	00%	000000	00%	000000	00%	000000	00%
REF. BY HEALTH/HEALTH AGENCY	**	000000	00%	000000	00%	000000	00%	000000	00%
REF. BY HEALTH DEPARTMENT	**	000000	00%	000000	00%	000000	00%	000000	00%
REF. BY NEIGHB. AGENCY	**	000000	00%	000000	00%	000000	00%	000000	00%
REF. BY ASSISTANT PATIENT	**	000000	00%	000000	00%	000000	00%	000000	00%
REF. BY FAMILY FRIEND	**	000000	00%	000000	00%	000000	00%	000000	00%
REF. BY TV/RADIO/NEWSPAPER	**	000000	00%	000000	00%	000000	00%	000000	00%
REF. BY OTHER	**	000000	00%	000000	00%	000000	00%	000000	00%

REPORTER'S NEXT APPOINTMENT DATA ITEM	DATE PRODUCED	REGIONAL DATA NETWORK 52/11/76		FLORIDA TOTAL PER		GEORGIA TOTAL PER		KENTUCKY TOTAL PER	
SUPPLY VISIT/STRIKING CHECK	**	000000	00%	000000	00%	000000	00%	000000	00%
ANNUAL EXAMINATION	**	000000	00%	000000	00%	000000	00%	000000	00%
MEDICAL PROBLEMS	**	000000	00%	000000	00%	000000	00%	000000	00%
OTHER	**	000000	00%	000000	00%	000000	00%	000000	00%
NO NEXT APPOINTMENT	**	000000	00%	000000	00%	000000	00%	000000	00%

REPORTER'S DROP OUT DATA ITEM	DATE PRODUCED	REGIONAL DATA NETWORK 52/11/76		FLORIDA TOTAL PER		GEORGIA TOTAL PER		KENTUCKY TOTAL PER	
STERILIZATION	**	000000	00%	000000	00%	000000	00%	000000	00%
MEDICAL PROBLEMS	**	000000	00%	000000	00%	000000	00%	000000	00%
MEDICAL PERSON	**	000000	00%	000000	00%	000000	00%	000000	00%
PATIENT INTEREST	**	000000	00%	000000	00%	000000	00%	000000	00%
PATIENT COST INTEREST	**	000000	00%	000000	00%	000000	00%	000000	00%
PREGNANCY DESIRE(S)	**	000000	00%	000000	00%	000000	00%	000000	00%
PREGNANCY UNPLANNED	**	000000	00%	000000	00%	000000	00%	000000	00%
UNKNOWN	**	000000	00%	000000	00%	000000	00%	000000	00%

PLOT PROGRAM

PLOTTING PROGRAM

The plotting program scans the detailed master tape file for all desired data points and inputs these into a routine which produces a plot data disk file. The actual plot program is then initiated and independently synchronously processed. The three subsystems of the overall plot program are JERICO, CORREC, and PLOTDA.

The generation of specific desired plots or graphics is described in the detailed code for the CORREC subsystem. The four programs are summarized as follows.

THREED. This routine is the longest and most complex of the four programs developed. It will produce 6 three-dimensional plots of 8 different variables. The data for the plots is in the form of 8 different areas of a single plot. Each area will produce a "Hill" of the same height, slope, and size. Each "Hill" is multiplied by a "Factor" that is used to represent some variation in data between the eight states. This will produce dramatic variations in the size of each Hill. Any item that is of interest can be compared between the eight states.

The number of states compared can be either increased or decreased should such be required in the future. This routine generates 6 different viewing angles from the horizon (20.0, 40.0, 70.0, 110.0, 140.0 and 160.0 degrees) so that all data is clearly visible and easy to compare. Should other angles be desired this could be easily accomplished. This routine also generates one table of values and two state data location maps so that all data is clearly identified and all factors used in computation are known. This routine also produces 4 lines of label heading above each plot (the middle two lines of which are variable and may be changed with each perspective if desired) so that each plot is well labeled.

BAR 1. This routine is a simple routine which generates bar graphs with two axis. The lower axis is a calendar axis which notes the twelve months of the year. Thus the graph represents twelve month trend for any variable of interest. The second axis can be label to identify the variable graphed (the label used in the sample plot is "number of people served"). A triangle is placed at the center and top of each bar and then a line is drawn to connect all the triangles so that the trend is easy to see. This

routine also produces a table of values so that all values used are known. Values will be in the form of a percentage of the actual data compared.

BAR 2. This routine is similar to BAR 1 in that it also produces a bar graph. It is designed to reflect period increases for some variable between the eight states. At present the routine is set up to plot data for three periods of time. Period A shows up as the lower part of each state's bar. This bar is hatched from left to right at six lines per inch. Period B is the center bar which is left unhatched to make it distinctive from period A, Period C is the upper bar which is hatched from right to left at 6 lines per inch. Due to the different hatching all periods are very distinctive and easy to compare. A vertical axis is supplied to the left of the graph so that values are easy to determine. This axis also has a label capability so that the variable being compared is clearly identified (the label used on the sample plot is "number of people served") Each bar is labeled underneath with a state name for identification. A table of values is once again supplied so that all values used in the generation of the plot are known. These values will be either in the form of percentages or factors that will reflect the conditions of actual data.

PIE: This routine is designed for percentage comparison. It is in the form of a circle which is divided into "pie cuts" to represent the percentage a particular variable takes up (out of 100 percent). Each 'cut' is labeled as to which variable it belongs to. The routine generates a table of values so that the extent percentage of each variable is known.

Sample plots follow; these are followed in turn by the actual code for the plotting program.

```

100*$SET LIST
200*$SET YREF
300*$SET SEQXEQ
400*IDENTIFICATION DIVISION.
500*PROGRAM-ID. HEALTH EDUCATION AND WELFARE MASTER CONTROL
600** PROGRAM REGION IV DATA PROCESSING NETWORK.
700*AUTHOR. DANIEL RAY CRIDER.
800*INSTALLATION. RICH COMPUTER CENTER--GA INST OF TECHNOLOGY.
900*DATE-WRITTEN. JULY-DECEMBER 1975.
1000*DATE-COMPILED.
1100*ENVIRONMENT DIVISION.
1200*CONFIGURATION SECTION.
1300*SOURCE-COMPUTER. P-5700 WITH DEBUGGING MODE.
1400*OBJECT-COMPUTER. P-5700.
1500*INPUT-OUTPUT SECTION.
1600*FILE-CONTROL.
1700* SELECT REM-IN ASSIGN TO REMOTE.
1800* SELECT REM-OUT ASSIGN TO REMOTE.
1900* SELECT PLOTDATA ASSIGN TO 10 * 400 DISK.
2000* SELECT REM-2 ASSIGN TO REMOTE.
2100* SELECT COUNTY-MASTER ASSIGN TO TAPE.
2200*J-O-CONTROL.
2300*DATA DIVISION.
2400*FILE SECTION.
2500*FD REM-IN
2600* RECORD CONTAINS 80 CHARACTERS.
2700*01 ITY-IN PIC X(80).
2800*FD REM-OUT
2900* RECORD CONTAINS 80 CHARACTERS.
3000*01 ITY-OUT PIC X(80).
3100*FD PLOTDATA
3200* BLOCK CONTAINS 30 RECORDS
3300* RECORD CONTAINS 80 CHARACTERS
3400* SAVE-FACTOR IS 7.
3500*01 PERSPECTIVE-DEGREES.
3600* 02 DEGREE-OUT PIC 9.9.
3700* 02 DEG-DUMMY PIC X(77).
3800*01 THREEED-RECORDS.
3900* 02 MAGNITUDE-FILL PIC 9.99.
4000* 02 DUMMY PIC X(76).
4100*01 THREEED-LABEL.
4200* 02 THR-PL0T-LABEL PIC X(24).
4300* 02 THR-PL0T-LABEL2 PIC X(24).
4400* 02 FILLER PIC X(32).
4500*01 BAR-ONE-RECORDS.
4600* 02 BAR-HEIGHT PIC 9.99.
4700* 02 BAR-DUMMY PIC X(76).
4800*01 BAR-ONE-LABEL.
4900* 02 BR1-PL0T-LABEL PIC X(24).
5000* 02 FILLER PIC X(56).
5100*01 BAR-TWO-RECORDS.
5200* 02 PERIOD-DATA PIC 9.99.
5300* 02 BAR2H-DUMMY PIC X(76).
5400*01 BAR-TWO-LABEL.
5500* 02 BR2-PL0T-LABEL PIC X(24).
5600* 02 FILLER PIC X(56).
5700*01 PIF-RECORDS.
5800* 02 PIF-DATA-OUT PIC 99.9.
5900* 02 PIF-DUMMY PIC X(76).
6000*01 PIF-LABELS.
6100* 02 PIE-PL0T-LABEL PIC X(12).
6200* 02 FILLER PIC X(64).
6300*FD REM-2
6400* RECORD CONTAINS 11 CHARACTERS.
6500*01 DATA-INPUT PIC 9(9)V99.
6600*01 DATA-INPUT-2.
6700* 02 X-INDEX PIC 9(1).
6800* 02 X-DUMMY PIC 9(9).
6900*FD COUNTY-MASTER
7000* BLOCK CONTAINS 20 RECORDS
7100* RECORDING MODE IS STANDARD
7200* RECORD CONTAINS 64 CHARACTERS
7300* VALUE OF TO IS "CMASTER"
7400* SAVE-FACTOR IS 300.
7500*01 COUNTY-A.
7600* 02 C-STATE-NAME PIC X(3).
7700* 03 COUNTY-NUM PIC 999.
7800* 03 CLINIC-TOTAL PIC 9(6).
7900* 03 PATIENT-TOTAL PIC 9(12).
8000* 03 MEDICAD-TOTAL PIC 9(12).
8100* 03 FEMALE-TOTAL PIC 9(12).

```

8200*	03 MALE-TOTAL	PIC 9(12).
8300*	03 CA-DUM	PIC X(4).
8400*01	COUNTY-B.	
8500*	03 RACE.	
8600*	04 WHITE	PIC 9(10).
8700*	04 BLACK	PIC 9(10).
8800*	04 AMERICAN-INDIAN	PIC 9(10).
8900*	04 MEXICAN-AMERICAN	PIC 9(10).
9000*	04 ORIENTAL	PIC 9(10).
9100*	04 OTHER-RACE	PIC 9(10).
9200*	04 CR-DUM	PIC X(4).
9300*01	COUNTY-B2.	
9400*	03 ETHNIC	PIC 9(10).
9500*	03 MARITAL-STATUS.	
9600*	04 MARRIED	PIC 9(10).
9700*	04 NEVER-MARRIED	PIC 9(10).
9800*	04 SEPARATED	PIC 9(10).
9900*	04 DIVORCED	PIC 9(10).
10000*	04 SPOUSE-DECEASED	PIC 9(10).
10100*	04 CR-DUM	PIC X(4).
10200*01	COUNTY-C.	
10300*	03 VISIT-TOTAL.	
10400*	04 V-TOTAL	PIC 9(5).
10500*	04 SUPPLY-ON-SCHED	PIC 9(5).
10600*	04 UNSCHED-ANNUAL-CHECK	PIC 9(5).
10700*	04 INTAKE	PIC 9(5).
10800*	04 REVTS-ANNUAL-CHECK	PIC 9(5).
10900*	04 REVSTT	PIC 9(5).
11000*	04 SUPPLY-ON-UNCHED	PIC 9(5).
11100*	04 UNSCHED-CON-PROR	PIC 9(5).
11200*	04 CC1-DUM	PIC X(24).
11300*01	COUNTY-C1.	
11400*	03 UNSCHED-PROBLEM	PIC 9(5).
11500*	03 UNSCHED-PROBLEM-REV	PIC 9(5).
11600*	03 PREG-TOTAL.	
11700*	04 TOTAL-PRIC	PIC 9(5).
11800*	04 BORN-ALIVE	PIC 9(5).
11900*	04 LAST-DELIVERY.	
12000*	05 BORN-ALIVE-TERM	PIC 9(5).
12100*	05 BORN-ALIVE-PRE	PIC 9(5).
12200*	05 BORN-DEAD	PIC 9(5).
12300*	05 MIS-ABORT	PIC 9(5).
12400*	04 CC2-DUM	PIC X(24).
12500*01	COUNTY-C2.	
12600*	04 NEVER-PREG	PIC 9(5).
12700*	04 PREG-OTHER	PIC 9(5).
12800*	04 UNKNOWN	PIC 9(5).
12900*	04 FETAL-DEATHS	PIC 9(5).
13000*	04 CHILDREN-NOW-ALIVE	PIC 9(5).
13100*	04 CC-DUM	PIC X(39).
13200*01	COUNTY-D.	
13300*	03 CONTRACEPTIVE-USE.	
13400*	04 PATIENTS-ONCE-USED	PIC 9(5).
13500*	04 METHOD-USED-MOST.	
13600*	05 NONE	PIC 9(5).
13700*	05 ORAL	PIC 9(5).
13800*	05 IUD	PIC 9(5).
13900*	05 DIAPHRAGM	PIC 9(5).
14000*	05 FOAM	PIC 9(5).
14100*	05 RYTHM	PIC 9(5).
14200*	05 CONDOM	PIC 9(5).
14300*	04 CC-DUM	PIC X(24).
14400*01	COUNTY-D1.	
14500*	04 INJECTION	PIC 9(5).
14600*	04 STERILIZATION	PIC 9(5).
14700*	04 OTHER-CONTRA	PIC 9(5).
14800*	04 METHOD-NOT-KNOWN	PIC 9(5).
14900*	04 METHOD-PRESCRIBED-RY.	
15000*	05 PRIV-DOCTOR	PIC 9(5).
15100*	05 PUB-CLINIC	PIC 9(5).
15200*	05 DRUGGIST	PIC 9(5).
15300*	05 OTHER	PIC 9(5).
15400*	04 CC1-DUM	PIC X(24).
15500*01	COUNTY-E.	
15600*	03 SERVICES-PROVIDED.	
15700*	04 CONTRACEP-COUN	PIC 9(5).
15800*	04 STERILIZA-COUN	PIC 9(5).
15900*	04 INFERTILE-COUN	PIC 9(5).
16000*	04 ABORTIF-COUN	PIC 9(5).
16100*	04 SOCIAL-SER-COUN	PIC 9(5).
16200*	04 OTHER-COUN	PIC 9(5).
16300*	04 BLOOD-PRESSURE	PIC 9(5).
16400*	04 VO-BLOOD-TEST	PIC 9(5).

16500*	04	CF-DUM	PIC X(24).	
16600*	01	COUNTY-E1.		
16700*	04	HCT-HGE-TEST		PIC 9(5).
16800*	04	HLDOP-TEST		PIC 9(5).
16900*	04	VORI-TEST.		
17000*	05	VORL-TOTAL		PIC 9(5).
17100*	05	VORL-POS		PIC 9(5).
17200*	05	VORL-NEG		PIC 9(5).
17300*	04	PAP-SMEAR		
17400*	05	PAP-TOTAL		PIC 9(5).
17500*	05	PAP-POS		PIC 9(5).
17600*	05	PAP-NEG		PIC 9(5).
17700*	04	CF-DUM	PIC X(24).	
17800*	01	COUNTY-E2.		
17900*	04	GC-CULTURE.		
18000*	05	GC-TOTAL		PIC 9(5).
18100*	05	GC-POS		PIC 9(5).
18200*	05	GC-NEG		PIC 9(5).
18300*	04	BRFAST-TOTAL		PIC 9(5).
18400*	04	PELVIC-TOTAL		PIC 9(5).
18500*	04	URINALYSIS-TOT		PIC 9(5).
18600*	04	STCKIF-CELL-TEST.		
18700*	05	STCKIF-TOTAL		PIC 9(5).
18800*	05	STCKIF-POS		PIC 9(5).
18900*	04	CF-DUM	PIC X(24).	
19000*	01	COUNTY-E3.		
19100*	04	STCKIF-NEG		PIC 9(5).
19200*	04	STERILIZATION-TOT		PIC 9(5).
19300*	04	INFERTILITY-TOTAL		PIC 9(5).
19400*	04	PREGNANCY-TEST.		
19500*	05	PREG-TEST-TOTAL		PIC 9(5).
19600*	05	PREG-POS		PIC 9(5).
19700*	05	PREG-NEG		PIC 9(5).
19800*	04	OTHER-TEST		PIC 9(5).
19900*	04	CF-DUM	PIC X(29).	
20000*	01	COUNTY-E.		
20100*	03	CONTRA-METHOD-AFTER-VISIT.		
20200*	04	NO-METHOD		PIC 9(5).
20300*	04	ORAL-TOTAL		PIC 9(5).
20400*	04	IUD-TOTAL		PIC 9(5).
20500*	04	DIA-TOTAL		PIC 9(5).
20600*	04	FNAM-TOTAL		PIC 9(5).
20700*	04	RHYTHM-TOTAL		PIC 9(5).
20800*	04	CONDOM-TOTAL		PIC 9(5).
20900*	04	INJECTION-TOTAL		PIC 9(5).
21000*	04	CF-DUM	PIC X(24).	
21100*	01	COUNTY-E1.		
21200*	04	STERILIZA-TOTAL		PIC 9(5).
21300*	04	OTHER-CONTRA-TOTAL		PIC 9(5).
21400*	04	REASON-STCC-METHOD.		
21500*	05	PREG-PLAN-TOTAL		PIC 9(5).
21600*	05	PREG-PLAN-TOT		PIC 9(5).
21700*	05	SEEX-PREG-TOTAL		PIC 9(5).
21800*	05	MEDICAL-REASON-TOT		PIC 9(5).
21900*	05	OTHER-REASON-TOTAL		PIC 9(5).
22000*	05	CF-DUM	PIC X(29).	
22100*	01	COUNTY-G.		
22200*	03	REFERRED-ELSEWHERE.		
22300*	04	TOTAL-REFERRED		PIC 9(5).
22400*	04	SOC-SEE-TOTAL		PIC 9(5).
22500*	04	MED-SEE-TOTAL		PIC 9(5).
22600*	04	STERILIZATION-REF		PIC 9(5).
22700*	04	ADOPCION-TOTAL		PIC 9(5).
22800*	04	INFERTIL-TREAT-TOT		PIC 9(5).
22900*	04	OTHER-REFERRED-TOTAL		PIC 9(5).
23000*	03	PATIENT-SEEN-RV.		
23100*	04	PHYSICIAN-TOTAL		PIC 9(5).
23200*	04	CG-DUM	PIC X(24).	
23300*	01	COUNTY-G1.		
23400*	04	F-H-N-TOTAL		PIC 9(5).
23500*	04	F-P-H-N-TOTAL		PIC 9(5).
23600*	04	NURSE-MIDWIFE-TOT		PIC 9(5).
23700*	04	L-P-N-TOTAL		PIC 9(5).
23800*	04	SOCIAL-SER-TOTAL		PIC 9(5).
23900*	04	AIDE-TOTAL		PIC 9(5).
24000*	04	CLERK-TOTAL		PIC 9(5).
24100*	04	NUTRITIONIST-TOT		PIC 9(5).
24200*	01	COUNTY-G2.		
24300*	04	OTHER-HANDLED-TOT		PIC 9(5).
24400*	04	CG-DUM	PIC X(59).	
24500*	01	COUNTY-H.		
24600*	03	REFERRAL-SOURCE.		
24700*	04	SELF-TOTAL		PIC 9(5).

```

248000* 04 OUTREACH-WORKER-TOT PIC 0(5).
249000* 04 OTHER-EP-CLINIC-TOT PIC 0(5).
250000* 04 HOSP-HEALTH-AGENCY-TOT PIC 0(5).
251000* 04 PRIV-DOC-NURSE-TOTAL PIC 0(5).
252000* 04 WELFARE-AGENCY-TOT PIC 0(5).
253000* 04 ANOTHER-CLINIC-PAT-TOT PIC 0(5).
254000* 04 FAM-FRIEND-TOT PIC 0(5).
255000* 04 CH-DUM PIC X(24).
256000* 01 COUNTY-HI.
257000* 04 TV-RADIO-NEWSPAPER-TOT PIC 0(5).
258000* 04 REFERRED-BY-OTHER-TOTAL PIC 0(5).
259000* 04 REFERRED-BY-UNKNOWN-TOT PIC 0(5).
260000* 04 CH1-DUM PIC X(49).
261000* 01 COUNTY-I.
262000* 03 NEXT-APPOINTMENT-PLP.
263000* 04 SUPPLY-STRING-CHK-TOT PIC 0(5).
264000* 04 ANNUAL-EXAM-TOTAL PIC 0(5).
265000* 04 MEDICAL-PROR-TOTAL PIC 0(5).
266000* 04 OTHER-APPOIN-TOTAL PIC 0(5).
267000* 04 NO-NEXT-APPOIN-TOT PIC 0(5).
268000* 03 REASON-DEF-DISCHARGE.
269000* 04 STERIL-APPOIN-TOTAL PIC 0(5).
270000* 04 MENOPAISE-TOTAL PIC 0(5).
271000* 04 MEDICAL-PEAS-TOTAL PIC 0(5).
272000* 04 CI1-DUM PIC X(24).
273000* 01 COUNTY-II.
274000* 04 PATIENT-MOVED-TOTAL PIC 0(5).
275000* 04 PATIENT-LOST-INTEREST-TOT PIC 0(5).
276000* 04 PREG-DESTROY-TOTAL PIC 0(5).
277000* 04 PREG-UNELAN-TOTAL PIC 9(5).
278000* 04 UNKNOWN-DISCHAR-PEAS-TOT PIC 0(5).
279000* 04 CI-DUM PIC X(39).
280000* WORKING-STORAGE SECTION.
281000* 01 STATE-FUND.
282000* 02 THREE-STATE-FUND OCCURS 8 TIMES PIC 9(9)V99 COMP.
283000* 01 THREE-STATE-FACTOR PIC 9V99 COMP.
284000* 01 ZF PIC 9 COMP VALUE IS 0.
285000* 01 COUNTY-TRACK PIC 999V9 COMP.
286000* 01 X PIC 9(1).
287000* 01 THREE-CYLING PIC 9(9)V99 COMP VALUE IS 100000000.
288000* 01 PLOT-LABEL-ONE PIC X(24).
289000* 01 PLOT-LABEL-TWO PIC X(24).
290000* 01 REPLY PIC X(24).
291000* 01 RAB-ONE-CYLING PIC 9(9)V99 COMP VALUE IS 100000000.
292000* 01 PIE-SUR-VARIABLES.
293000* 02 PIE-LABEL OCCURS 12 TIMES PIC X(12).
294000* 02 PIE-SLICE OCCURS 12 TIMES PIC 9(9)V99 COMP.
295000* 02 PIE-SLICE-PERCENT OCCURS 12 TIMES PIC 99V9 COMP.
296000* 02 PIE-TOTAL PIC 9(12)V99 COMP.
297000* 01 ZIP PIC X(100).
298000* 01 REGIONAL-TOTALS.
299000* 02 R-STATE-NAME PIC X(3) VALUE "REG".
300000* 02 R-COUNTY-NAME PIC 9(3) VALUE 999.
301000* 02 CLINIC-TOTAL PIC 9(8).
302000* 02 PATIENT-TOTAL PIC 9(12).
303000* 02 MEDICAL-TOTAL PIC 9(12).
304000* 02 FEMALE-TOTAL PIC 9(12).
305000* 02 MALE-TOTAL PIC 9(12).
306000* 02 RACE.
307000* 03 WHITE PIC 9(10).
308000* 03 BLACK PIC 9(10).
309000* 03 AMERICAN-INDIAN PIC 9(10).
310000* 03 MEXICAN-AMERICAN PIC 9(10).
311000* 03 ORIENTAL PIC 9(10).
312000* 03 OTHER-RACE PIC 9(10).
313000* 03 ETHNIC PIC 9(10).
314000* 02 MARITAL-STATUS.
315000* 03 MARRIED PIC 9(10).
316000* 03 NEVER-MARRIED PIC 9(10).
317000* 03 SEPARATED PIC 9(10).
318000* 03 DIVORCED PIC 9(10).
319000* 03 SPOUSE-DECEASED PIC 9(10).
320000* 02 VISIT-TOTAL.
321000* 03 V-TOTAL PIC 9(15).
322000* 03 SUPPLY-ON-SCHED PIC 9(15).
323000* 03 UNSCHED-ANNUAL-CHECK PIC 9(15).
324000* 03 INTAKE PIC 9(15).
325000* 03 REVIS-ANNUAL-CHECK PIC 9(15).
326000* 03 REVISIT PIC 9(15).
327000* 03 SUPPLY-ON-UNSCHED PIC 9(15).
328000* 03 UNSCHED-NON-PROR PIC 0(15).
329000* 03 UNSCHED-PROBLEM PIC 0(15).
330000* 03 UNSCHED-PROBLEM-REV PIC 0(15).

```

331000*	02 PREG-TOTAL.	
332000*	03 TOTAL-PREG	PIC 9(15).
333000*	03 HORN-TOTAL	PIC 9(15).
334000*	03 LAST-DELIVERY.	
335000*	05 RORN-ALIVE-TERM	PIC 9(15).
336000*	05 RORN-ALIVE-PRE	PIC 9(15).
337000*	05 RORN-DEAD	PIC 9(15).
338000*	05 HIS-ACFT	PIC 9(15).
339000*	05 NEVER-PREG	PIC 9(15).
340000*	05 PRCG-OTHER	PIC 9(15).
341000*	05 UNKNOWN	PIC 9(15).
342000*	03 FETAL-DEATHS	PIC 9(15).
343000*	03 CHILDREN-ADW-ALIVE	PIC 9(15).
344000*	02 CONTRACEPTIVE-USE.	
345000*	03 PATIENTS-DATE-USED	PIC 9(15).
346000*	03 METHOD-USED-MOST.	
347000*	05 NONE	PIC 9(15).
348000*	05 ORAL	PIC 9(15).
349000*	05 IUD	PIC 9(15).
350000*	05 DIAPHRAGM	PIC 9(15).
351000*	05 FOAM	PIC 9(15).
352000*	05 RYTHM	PIC 9(15).
353000*	05 CONDOM	PIC 9(15).
354000*	05 INJECTION	PIC 9(15).
355000*	05 STERILIZATION	PIC 9(15).
356000*	05 OTHER-CONTRA	PIC 9(15).
357000*	05 METHOD-NOT-KNOWN	PIC 9(15).
358000*	03 METHOD-PERSCQ-IREP-BY.	
359000*	05 PRTY-COCTOR	PIC 9(15).
360000*	05 PUB-CLINIC	PIC 9(15).
361000*	05 DRUGGIST	PIC 9(15).
362000*	05 OTHER	PIC 9(15).
363000*	02 SERVICES-PROVIDED.	
364000*	03 CONTRACEP-COUN	PIC 9(15).
365000*	03 STERILIZA-COUN	PIC 9(15).
366000*	03 INFERTILT-COUN	PIC 9(15).
367000*	03 ABDUCTION-COUN	PIC 9(15).
368000*	03 SOCIAL-SER-COUN	PIC 9(15).
369000*	03 OTHER-COUN	PIC 9(15).
370000*	03 BLOOD-PRESSURE	PIC 9(15).
371000*	03 VDRL-BLOOD-TEST	PIC 9(15).
372000*	03 HGT-HGE-TEST	PIC 9(15).
373000*	03 BLOOD-TEST	PIC 9(15).
374000*	03 VDRL-TEST.	
375000*	05 VDRL-TOTAL	PIC 9(15).
376000*	05 VDRL-POS	PIC 9(15).
377000*	05 VDRL-NEG	PIC 9(15).
378000*	03 PAP-SMEAR.	
379000*	05 PAP-TOTAL	PIC 9(15).
380000*	05 PAP-POS	PIC 9(15).
381000*	05 PAP-NEG	PIC 9(15).
382000*	03 GC-CULTURE.	
383000*	05 GC-TOTAL	PIC 9(15).
384000*	05 GC-POS	PIC 9(15).
385000*	05 GC-NEG	PIC 9(15).
386000*	03 BREAST-TOTAL	PIC 9(15).
387000*	03 PELVIC-TOTAL	PIC 9(15).
388000*	03 URINALYSIS-TOT	PIC 9(15).
389000*	03 STICKLE-CELL-TEST.	
390000*	05 STICKLE-TOTAL	PIC 9(15).
391000*	05 STICKLE-POS	PIC 9(15).
392000*	05 STICKLE-NEG	PIC 9(15).
393000*	03 STERILIZATION-TOT	PIC 9(15).
394000*	03 INFERTILITY-TOTAL	PIC 9(15).
395000*	03 PREGNANCY-TEST.	
396000*	05 PREG-TEST-TOTAL	PIC 9(15).
397000*	05 PREG-POS	PIC 9(15).
398000*	05 PREG-NEG	PIC 9(15).
399000*	03 OTHER-TEST	PIC 9(15).
400000*	02 CONTRA-METHOD-AFTER-VISIT.	
401000*	03 NO-METHOD	PIC 9(15).
402000*	03 ORAL-TOTAL	PIC 9(15).
403000*	03 IUD-TOTAL	PIC 9(15).
404000*	03 DIA-TOTAL	PIC 9(15).
405000*	03 FOAM-TOTAL	PIC 9(15).
406000*	03 RYTHM-TOTAL	PIC 9(15).
407000*	03 CONDOM-TOTAL	PIC 9(15).
408000*	03 INJECTION-TOTAL	PIC 9(15).
409000*	03 STERILIZA-TOTAL	PIC 9(15).
410000*	03 OTHER-CONTRA-TOTAL	PIC 9(15).
411000*	02 REASON-STOP-METHOD.	
412000*	03 PREG-PLAN-TOTAL	PIC 9(15).
413000*	03 PREG-LA PLAN-TOT	PIC 9(15).

41400*	03	SFFK-PFEC-TOTAL	PIC	0(15).
41500*	03	MEDICAL-REASON-TOT	PIC	0(15).
41600*	03	OTHER-REASON-TOTAL	PIC	0(15).
41700*	02	REFERRED-ILLSEWERE.		
41800*	03	TOTAL-REFERRED	PIC	0(15).
41900*	03	SOC-SFF-TOTAL	PIC	0(15).
42000*	03	MED-SFF-TOTAL	PIC	0(15).
42100*	03	STERILIZATION-REF	PIC	0(15).
42200*	03	ADMITTED-TOTAL	PIC	0(15).
42300*	03	INFERTIL-TREAT-TOT	PIC	0(15).
42400*	03	OTHER-REFERRED-TOTAL	PIC	0(15).
42500*	02	PATIENT-SLEN-RV.		
42600*	03	PHYSICIAN-TOTAL	PIC	0(15).
42700*	03	P-H-N-TOTAL	PIC	0(15).
42800*	03	F-P-H-N-TOTAL	PIC	0(15).
42900*	03	NURSE-MTWIFE-TOT	PIC	0(15).
43000*	03	L-P-N-TOTAL	PIC	0(15).
43100*	03	SOCIAL-SER-TOTAL	PIC	0(15).
43200*	03	AIDE-TOTAL	PIC	0(15).
43300*	03	CLERK-TOTAL	PIC	0(15).
43400*	03	NUTRITIONIST-TOT	PIC	0(15).
43500*	03	OTHER-HANDLED-TOT	PIC	0(15).
43600*	02	REFERRAL-SOURCE.		
43700*	03	SELF-TOTAL	PIC	0(15).
43800*	03	OUTREACH-WORKER-TOT	PIC	0(15).
43900*	03	OTHER-FF-CLINIC-TOT	PIC	0(15).
44000*	03	HOSP-HEALTH-AGENCY-TOT	PIC	0(15).
44100*	03	PRIV-DIC-NURSE-TOTAL	PIC	0(15).
44200*	03	WELFARE-AGENCY-TOT	PIC	0(15).
44300*	03	ANOTHER-CLINIC-PAT-TOT	PIC	0(15).
44400*	03	FAM-FRIEND-TOT	PIC	0(15).
44500*	03	TV-RADIO-NEWSPAPER-TOT	PIC	0(15).
44600*	03	REFERRED-RY-OTHER-TOTAL	PIC	0(15).
44700*	03	REFERRED-RY-UNKNOWN-TOT	PIC	0(15).
44800*	02	NEXT-APPOINTMENT-PIR.		
44900*	03	SUPPLY-STRING-CHK-TOT	PIC	0(15).
45000*	03	ANNUAL-PYAM-TOTAL	PIC	0(15).
45100*	03	MEDICAL-PROR-TOTAL	PIC	0(15).
45200*	03	OTHER-APPOIN-TOTAL	PIC	0(15).
45300*	03	NO-NEXT-APPOIN-TOT	PIC	0(15).
45400*	02	REASON-EDP-DISCHARGE.		
45500*	03	STERIL-APPOIN-TOTAL	PIC	0(15).
45600*	03	MENOPAUSE-TOTAL	PIC	0(15).
45700*	03	MEDICAL-REAS-TOTAL	PIC	0(15).
45800*	03	PATIENT-MOVED-TOTAL	PIC	0(15).
45900*	03	PATIENT-LOST-INTEREST-TOT	PIC	0(15).
46000*	03	PREC-DESTREN-TOTAL	PIC	0(15).
46100*	03	PREC-UNLIAN-TOTAL	PIC	9(15).
46200*	03	UNKNOWN-DISCHAR-REAS-TOT	PIC	0(15).
46300*	01	STATE-PATIENT-DATA.		
46400*	02	STATE-TOTALS OCCURS 4 TIMES.		
46500*	03	STATE-A.		
46600*	04	BLANK-A	PIC	999.
46700*	04	STATE-BLANK	PIC	X(3).
46800*	04	CLINIC-TOTAL	PIC	9(10).
46900*	04	PATIENT-TOTAL	PIC	9(12).
47000*	04	MEDICAID-TOTAL	PIC	9(12).
47100*	04	FEMALE-TOTAL	PIC	9(12).
47200*	04	MALE-TOTAL	PIC	9(12).
47300*	03	STATE-B.		
47400*	04	RACE.		
47500*	05	WHITE	PIC	9(10).
47600*	05	BLACK	PIC	9(10).
47700*	05	AMERICAN-INDIAN	PIC	9(10).
47800*	05	MEXICAN-AMERICAN	PIC	9(10).
47900*	05	ORIENTAL	PIC	9(10).
48000*	05	OTHER-RACE	PIC	9(10).
48100*	05	ETHNIC	PIC	9(10).
48200*	04	MARRITAL-STATUS.		
48300*	05	MARRIED	PIC	9(10).
48400*	05	NEVER-MARRIED	PIC	9(10).
48500*	05	SEPARATED	PIC	9(10).
48600*	05	DIVORCED	PIC	9(10).
48700*	05	SPOUSE-DECEASED	PIC	9(10).
48800*	03	STATE-C.		
48900*	04	VISIT-TOTAL.		
49000*	05	VITOTAL	PIC	9(15).
49100*	05	SUPPLY-ON-SCHED	PIC	9(15).
49200*	05	UNSCHED-ANNUAL-CHECK	PIC	9(15).
49300*	05	INTAKE	PIC	9(15).
49400*	05	REVIS-ANNUAL-CHECK	PIC	9(15).
49500*	05	REVISIT	PIC	9(15).
49600*	05	SUPPLY-ON-UNSCHED	PIC	9(15).

407000*	05 UNSCHED-MON-PROB	PIC 0(15).
408000*	05 UNSCHED-TWORLEM	PIC 0(15).
409000*	05 UNSCHED-FORBLEM-REV	PIC 0(15).
500000*	04 PREF-TOTAL.	
501000*	05 TOTAL-PREF	PIC 9(15).
502000*	05 BORN-ALIVE	PIC 9(15).
503000*	05 LAST-DELIVERY.	
504000*	06 BORN-ALIVE-TERM	PIC 9(15).
505000*	06 BORN-ALIVE-PRE	PIC 9(15).
506000*	06 BORN-DEAD	PIC 9(15).
507000*	06 MIS-ACCT	PIC 9(15).
508000*	06 NEVER-PREG	PIC 9(15).
509000*	06 PREG-OTHER	PIC 9(15).
510000*	06 UNKNOWN	PIC 9(15).
511000*	05 FETAL-DEATHS	PIC 9(15).
512000*	05 CHILDREN-NOW-ALIVE	PIC 9(15).
513000*	03 STATE-F.	
514000*	04 CONTRACEPTIVE-USE.	
515000*	05 PATIENTS-ONCE-USED	PIC 9(15).
516000*	05 METHOD-USED-MOST.	
517000*	06 NONE	PIC 9(15).
518000*	06 ORAL	PIC 9(15).
519000*	06 IUD	PIC 9(15).
520000*	06 DIAPHRAGM	PIC 9(15).
521000*	06 FOAM	PIC 9(15).
522000*	06 RYTHM	PIC 9(15).
523000*	06 CONDOM	PIC 9(15).
524000*	06 INJECTION	PIC 9(15).
525000*	06 STERILIZATION	PIC 9(15).
526000*	06 OTHER-CONTRA	PIC 9(15).
527000*	06 METHOD-NOT-KNOWN	PIC 9(15).
528000*	05 METHOD-PRESCRIBED-BY.	
529000*	06 PRIV-DOCTOR	PIC 9(15).
530000*	06 PUB-CLINIC	PIC 9(15).
531000*	06 DRUGGIST	PIC 9(15).
532000*	06 OTHER	PIC 9(15).
533000*	03 STATE-F.	
534000*	04 SERVICES-PROVIDED.	
535000*	05 CONTRACEP-COUN	PIC 0(15).
536000*	05 STERILIZA-COUN	PIC 0(15).
537000*	05 INFERTILT-COUN	PIC 0(15).
538000*	05 ABORTION-COUN	PIC 0(15).
539000*	05 SOCIAL-SER-COUN	PIC 0(15).
540000*	05 OTHER-COUN	PIC 0(15).
541000*	05 BLOOD-PRESSURE	PIC 9(15).
542000*	05 VDRL-TEST	PIC 0(15).
543000*	05 HGT-HGE-TEST	PIC 0(15).
544000*	05 BLOOD-TEST	PIC 0(15).
545000*	05 VDRL-TEST.	
546000*	06 VDRL-TOTAL	PIC 0(15).
547000*	06 VDRL-PDS	PIC 0(15).
548000*	06 VDRL-NEG	PIC 0(15).
549000*	05 PAP-SMEAR.	
550000*	06 PAP-TOTAL	PIC 0(15).
551000*	06 PAP-PDS	PIC 0(15).
552000*	06 PAP-NEG	PIC 0(15).
553000*	05 GC-CULTURE.	
554000*	06 GC-TOTAL	PIC 0(15).
555000*	06 GC-PDS	PIC 0(15).
556000*	06 GC-NEG	PIC 0(15).
557000*	05 BREAST-TOTAL	PIC 0(15).
558000*	05 PELVIC-TOTAL	PIC 0(15).
559000*	05 URINALYSIS-TOT	PIC 0(15).
560000*	05 STICKLE-CELL-TEST.	
561000*	06 STICKLE-TOTAL	PIC 0(15).
562000*	06 STICKLE-PDS	PIC 0(15).
563000*	06 STICKLE-NEG	PIC 0(15).
564000*	05 STERILIZATION-TOT	PIC 0(15).
565000*	05 INFERTILITY-TOTAL	PIC 0(15).
566000*	05 PREGNANCY-TEST.	
567000*	06 PREG-TEST-TOTAL	PIC 0(15).
568000*	06 PREG-PDS	PIC 0(15).
569000*	06 PREG-NEG	PIC 0(15).
570000*	05 OTHER-TEST	PIC 0(15).
571000*	03 STATE-F.	
572000*	04 CONTRA-METHOD-AFTER-VISIT.	
573000*	05 NO-METHOD	PIC 0(15).
574000*	05 ORAL-TOTAL	PIC 0(15).
575000*	05 IUD-TOTAL	PIC 0(15).
576000*	05 DIA-TOTAL	PIC 0(15).
577000*	05 FOAM-TOTAL	PIC 0(15).
578000*	05 RYTHM-TOTAL	PIC 0(15).
579000*	05 CONDOM-TOTAL	PIC 0(15).

54000*	05	INJECTION-TOTAL	PIC	0(15).
54100*	05	STERILIZA-TOTAL	PIC	0(15).
54200*	05	OTHER-CONTRA-TOTAL	PIC	0(15).
54300*	04	REASON-STOP-METHOD.		
54400*	05	PREC-PLAN-TOTAL	PIC	0(15).
54500*	05	PREC-IMPLAN-TOT	PIC	9(15).
54600*	05	STERK-PREC-TOTAL	PIC	0(15).
54700*	05	MEDICAL-REASON-TOT	PIC	0(15).
54800*	05	OTHER-REASON-TOTAL	PIC	0(15).
54900*	03	STATE-G.		
55000*	04	REFERRED-ELSEWHERE.		
55100*	05	TOTAL-REFERRED	PIC	0(15).
55200*	05	SDC-SFF-TOTAL	PIC	0(15).
55300*	05	MED-SFF-TOTAL	PIC	0(15).
55400*	05	STERILIZATION-REF	PIC	0(15).
55500*	05	ADoption-TOTAL	PIC	0(15).
55600*	05	INFERTIL-TREAT-TOT	PIC	0(15).
55700*	05	OTHER-REFERRED-TOTAL	PIC	0(15).
55800*	04	PATIENT-SEEN-BY.		
55900*	05	PHYSICIAN-TOTAL	PIC	0(15).
60000*	05	P-H-N-TOTAL	PIC	0(15).
60100*	05	F-P-H-N-TOTAL	PIC	0(15).
60200*	05	NURSE-MTWIFE-TOT	PIC	0(15).
60300*	05	L-P-N-TOTAL	PIC	0(15).
60400*	05	SOCIAL-SER-TOTAL	PIC	0(15).
60500*	05	AIDE-TOTAL	PIC	0(15).
60600*	05	CLERK-TOTAL	PIC	0(15).
60700*	05	NUTRITIONIST-TOT	PIC	0(15).
60800*	05	OTHER-HANDLED-TOT	PIC	0(15).
60900*	03	STATE-H.		
61000*	04	REFERRAL-SOURCE.		
61100*	05	SELF-TOTAL	PIC	0(15).
61200*	05	OUTREACH-WORKFR-TOT	PIC	0(15).
61300*	05	OTHER-FC-CLINIC-TOT	PIC	0(15).
61400*	05	HOSP-HEALTH-AGENCY-TOT	PIC	0(15).
61500*	05	PRIV-DIC-NURSE-TOTAL	PIC	0(15).
61600*	05	WELFARE-AGENCY-TOT	PIC	0(15).
61700*	05	ANDTHEL-CLINIC-PAT-TOT	PIC	0(15).
61800*	05	FAN-FRIEND-TOT	PIC	0(15).
61900*	05	TV-RADIC-NEWSPAPER-TOT	PIC	0(15).
62000*	05	REFERRAL-BY-OTHER-TOTAL	PIC	0(15).
62100*	05	REFERRAL-BY-UNKNOWN-TOT	PIC	0(15).
62200*	03	STATE-I.		
62300*	04	NEXT-APPOINTMENT-PLN.		
62400*	05	SUPPLY-STRING-CHK-TOT	PIC	0(15).
62500*	05	ANNUAL-EXAM-TOTAL	PIC	0(15).
62600*	05	MEDICAL-PROR-TOTAL	PIC	0(15).
62700*	05	OTHER-APPOIN-TOTAL	PIC	0(15).
62800*	05	NO-NEXT-APPOIN-TOT	PIC	0(15).
62900*	04	REASON-ENR-DISCHARGE.		
63000*	05	STERIL-APPOIN-TOTAL	PIC	0(15).
63100*	05	MENORAISE-TOTAL	PIC	0(15).
63200*	05	MEDICAL-REAS-TOTAL	PIC	0(15).
63300*	05	PATIENT-MOVED-TOTAL	PIC	0(15).
63400*	05	PATIENT-LOST-INTEREST-TOT	PIC	0(15).
63500*	05	PREC-DESIRED-TOTAL	PIC	0(15).
63600*	05	PREC-UNCLAN-TOTAL	PIC	9(15).
63700*	05	UNKNOWN-DISCHAR-REAS-TOT	PIC	0(15).
63800*	01	R-STATE-PATIENT-DATA.		
63900*	02	R-STATE-TOTALS OCCURS 4 TIMES.		
64000*	03	STATE-A.		
64100*	04	BLANK-A	PIC	999.
64200*	04	CLINIC-TOTAL	PIC	9(16).
64300*	04	PATIENT-TOTAL	PIC	9(12).
64400*	04	MEDICAL-TOTAL	PIC	9(12).
64500*	04	FEMALE-TOTAL	PIC	9(12).
64600*	04	MALE-TOTAL	PIC	9(12).
64700*	03	STATE-B.		
64800*	04	RACE.		
64900*	05	WHITE	PIC	9(10).
65000*	05	BLACK	PIC	9(10).
65100*	05	AMERICAN-INDIAN	PIC	9(10).
65200*	05	MEXICAN-AMERICAN	PIC	9(10).
65300*	05	ORIENTAL	PIC	9(10).
65400*	05	OTHER-RACE	PIC	9(10).
65500*	05	ETHNIC	PIC	9(10).
65600*	04	MARRITAL-STATUS.		
65700*	05	MARRIED	PIC	9(10).
65800*	05	NEVER-MARRIED	PIC	9(10).
65900*	05	SEPARATED	PIC	9(10).
66000*	05	DIVORCED	PIC	9(10).
66100*	05	SPOUSE-DECEASED	PIC	9(10).
66200*	03	STATE-C.		

66300*	04 VISIT-TOTAL.	
66400*	05 V-TOTAL	PIC 9(15).
66500*	05 SUPPLY-ON-SCHED	PIC 9(15).
66600*	05 UNSCHED-ANNUAL-CHECK	PIC 9(15).
66700*	05 INTAKE	PIC 9(15).
66800*	05 REVTS-ANNUAL-CHECK	PIC 9(15).
66900*	05 REVTS-T	PIC 9(15).
67000*	05 SUPPLY-ON-UNSCHED	PIC 9(15).
67100*	05 UNSCHED-NON-PDR	PIC 9(15).
67200*	05 UNSCHED-PROBLEM	PIC 9(15).
67300*	05 UNSCHED-PROBLEM-REV	PIC 9(15).
67400*	04 PREG-TOTAL.	
67500*	05 TOTAL-PREG	PIC 9(15).
67600*	05 BORN-ALIVE	PIC 9(15).
67700*	05 LAST-DELIVERY.	
67800*	06 BORN-ALIVE-TERM	PIC 9(15).
67900*	06 BORN-ALIVE-PRE	PIC 9(15).
68000*	06 BORN-DEAD	PIC 9(15).
68100*	06 MIS-ABORT	PIC 9(15).
68200*	06 NEVER-PREG	PIC 9(15).
68300*	06 PREG-OTHER	PIC 9(15).
68400*	06 UNKNOWN	PIC 9(15).
68500*	05 FETAL-DEATHS	PIC 9(15).
68600*	05 CHILDREN-NOW-ALIVE	PIC 9(15).
68700*	03 STATE-D.	
68800*	04 CONTRACEPTIVE-USE.	
68900*	05 PATIENTS-ONCE-USED	PIC 9(15).
69000*	05 METHOD-USED-MOST.	
69100*	06 NONE	PIC 9(15).
69200*	06 ORAL	PIC 9(15).
69300*	06 IUD	PIC 9(15).
69400*	06 DIAPHRAGM	PIC 9(15).
69500*	06 FOAM	PIC 9(15).
69600*	06 RYTHM	PIC 9(15).
69700*	06 CONDOM	PIC 9(15).
69800*	06 INJECTION	PIC 9(15).
69900*	06 STERILIZATION	PIC 9(15).
70000*	06 OTHER-CONTRA	PIC 9(15).
70100*	06 METHOD-NOT-KNOWN	PIC 9(15).
70200*	05 METHOD-PRESCRIBED-BY.	
70300*	06 PRIV-DOCTOR	PIC 9(15).
70400*	06 PUB-CLINIC	PIC 9(15).
70500*	06 DRUGGIST	PIC 9(15).
70600*	06 OTHER	PIC 9(15).
70700*	03 STATE-E.	
70800*	04 SERVICES-PROVIDED.	
70900*	05 CONTRACEP-COUN	PIC 9(15).
71000*	05 STERILIZA-COUN	PIC 9(15).
71100*	05 INFERTILITY-COUN	PIC 9(15).
71200*	05 ABORTION-COUN	PIC 9(15).
71300*	05 SOCIAL-SER-COUN	PIC 9(15).
71400*	05 OTHER-COUN	PIC 9(15).
71500*	05 BLOOD-PRESSURE	PIC 9(15).
71600*	05 VD-RI-TEST	PIC 9(15).
71700*	05 HGT-HGT-TEST	PIC 9(15).
71800*	05 BLOOD-TEST	PIC 9(15).
71900*	05 VDRI-TEST.	
72000*	06 VDRI-TOTAL	PIC 9(15).
72100*	06 VDRI-POS	PIC 9(15).
72200*	06 VDRI-NEG	PIC 9(15).
72300*	05 PAP-SMEAR.	
72400*	06 PAP-TOTAL	PIC 9(15).
72500*	06 PAP-POS	PIC 9(15).
72600*	06 PAP-NEG	PIC 9(15).
72700*	05 GC-CULTURE.	
72800*	06 GC-TOTAL	PIC 9(15).
72900*	06 GC-POS	PIC 9(15).
73000*	06 GC-NEG	PIC 9(15).
73100*	05 PREG-TOTAL	PIC 9(15).
73200*	05 PELVIC-TOTAL	PIC 9(15).
73300*	05 URINALYSIS-TOT	PIC 9(15).
73400*	05 STICKLE-CELL-TEST.	
73500*	06 STICKLE-TOTAL	PIC 9(15).
73600*	06 STICKLE-POS	PIC 9(15).
73700*	06 STICKLE-NEG	PIC 9(15).
73800*	05 STERILIZATION-TOT	PIC 9(15).
73900*	05 INFERTILITY-TOTAL	PIC 9(15).
74000*	05 PREGNANCY-TEST.	
74100*	06 PREG-TEST-TOTAL	PIC 9(15).
74200*	06 PREG-POS	PIC 9(15).
74300*	06 PREG-NEG	PIC 9(15).
74400*	05 OTHER-TEST	PIC 9(15).
74500*	03 STATE-F.	

74600*	04	CONTRA-METHOD-AFTER-VISIT.			
74700*	05	NO-METHOD	PIC	9(15).	
74800*	05	ORAL-TOTAL	PIC	9(15).	
74900*	05	IUD-TOTAL	PIC	9(15).	
75000*	05	OVA-TOTAL	PIC	9(15).	
75100*	05	FOAM-TOTAL	PIC	9(15).	
75200*	05	RHYTHM-TOTAL	PIC	9(15).	
75300*	05	CONDOM-TOTAL	PIC	9(15).	
75400*	05	INJECTION-TOTAL	PIC	9(15).	
75500*	05	STERILIZA-TOTAL	PIC	9(15).	
75600*	05	OTHER-CONTRA-TOTAL	PIC	9(15).	
75700*	04	REASON-STOP-METHOD.			
75800*	05	PREG-PLAN-TOTAL	PIC	9(15).	
75900*	05	PREG-UNPLAN-TOT	PIC	9(15).	
76000*	05	SPEK-PRIC-TOTAL	PIC	9(15).	
76100*	05	MEDICAL-REASON-TOT	PIC	9(15).	
76200*	05	OTHER-REASON-TOTAL	PIC	9(15).	
76300*	03	STATE-G.			
76400*	04	REFERRED-ELSEWHERE.			
76500*	05	TOTAL-REFERRED	PIC	9(15).	
76600*	05	SOC-SFE-TOTAL	PIC	9(15).	
76700*	05	MED-SFE-TOTAL	PIC	9(15).	
76800*	05	STERILIZATION-REF	PIC	9(15).	
76900*	05	ABORTION-TOTAL	PIC	9(15).	
77000*	05	INFERTIL-TREAT-TOT	PIC	9(15).	
77100*	05	OTHER-REFERRED-TOTAL	PIC	9(15).	
77200*	04	PATIENT-SEEN-BY.			
77300*	05	PHYSICIAN-TOTAL	PIC	9(15).	
77400*	05	P-N-TOTAL	PIC	9(15).	
77500*	05	E-P-H-TOTAL	PIC	9(15).	
77600*	05	NURSE-MIDWIFE-TOT	PIC	9(15).	
77700*	05	L-P-N-TOTAL	PIC	9(15).	
77800*	05	SOCIAL-SER-TOTAL	PIC	9(15).	
77900*	05	ATDE-TOTAL	PIC	9(15).	
78000*	05	CLERK-TOTAL	PIC	9(15).	
78100*	05	NUTRITIONIST-TOT	PIC	9(15).	
78200*	05	OTHER-HANDLED-TOT	PIC	9(15).	
78300*	03	STATE-H.			
78400*	04	REFERRAL-SOURCE.			
78500*	05	SELF-TOTAL	PIC	9(15).	
78600*	05	OUTREACH-WORKER-TOT	PIC	9(15).	
78700*	05	OTHER-CLINIC-TOT	PIC	9(15).	
78800*	05	HOSP-HEALTH-AGENCY-TOT	PIC	9(15).	
78900*	05	PRIV-DOC-NURSE-TOTAL	PIC	9(15).	
79000*	05	WELFARE-AGENCY-TOT	PIC	9(15).	
79100*	05	ANOTHER-CLINIC-PAT-TOT	PIC	9(15).	
79200*	05	FAM-FRIEND-TOT	PIC	9(15).	
79300*	05	TV-RADIO-NEWSPAPER-TOT	PIC	9(15).	
79400*	05	REFERRED-BY-OTHER-TOTAL	PIC	9(15).	
79500*	05	REFERRED-BY-UNKNOWN-TOT	PIC	9(15).	
79600*	03	STATE-I.			
79700*	04	NEXT-APPOINTMENT-PUR.			
79800*	05	SUPPLY-STRING-CHK-TOT	PIC	9(15).	
79900*	05	ANNUAL-CYAM-TOTAL	PIC	9(15).	
80000*	05	MEDICAL-PRUR-TOTAL	PIC	9(15).	
80100*	05	OTHER-APPOIN-TOTAL	PIC	9(15).	
80200*	05	AD-NEXT-APPOIN-TOT	PIC	9(15).	
80300*	04	REASON-FOE-DISCHARGE.			
80400*	05	STERIL-APPOIN-TOTAL	PIC	9(15).	
80500*	05	MENOPAUSE-TOTAL	PIC	9(15).	
80600*	05	MEDICAL-PEAS-TOTAL	PIC	9(15).	
80700*	05	PATIENT-MOVED-TOTAL	PIC	9(15).	
80800*	05	PATIENT-LOST-INTEREST-TOT	PIC	9(15).	
80900*	05	PREG-DE-STREP-TOTAL	PIC	9(15).	
81000*	05	PREG-UNPLAN-TOTAL	PIC	9(15).	
81100*	05	UNKNOWN-DISCHARGE-REAS-TOT	PIC	9(15).	
81200*	01	DNE	PIC	9 VALUE 1.	
81300*	01	THREE P-NUM	PIC	9(3).	
81400*	01	TANK	PIC	9(20) COMP.	
81500*	01	TANK-SUB.			
81600*	02	A OCCURS 4 TIMES	PIC	9(15) COMP.	
81700*	02	B OCCURS 4 TIMES	PIC	9(15) COMP.	
81800*	02	C	PIC	9(15) COMP.	
81900*	02	D	PIC	9(15) COMP.	
82000*	02	E	PIC	9(15) COMP.	
82100*	02	F	PIC	9(15) COMP.	
82200*	02	G	PIC	9(15) COMP.	
82300*	02	H	PIC	9(15) COMP.	
82400*	02	I	PIC	9(15) COMP.	
82500*	02	J	PIC	9(15) COMP.	
82600*	02	K	PIC	9(15) COMP.	
82700*	02	L	PIC	9(15) COMP.	
82800*	02	M	PIC	9(15) COMP.	

```
B29000* 0000 N PIC 0(15) COMP.
B30000* 0000 P PIC 0(15) COMP.
B31000* 0000 Q PIC 0(15) COMP.
B32000* 0000 R PIC 0(15) COMP.
B33000* 0000 S PIC 0(15) COMP.
B34000* 0000 T PIC 0(15) COMP.
B35000* 0000 U PIC 0(15) COMP.
B36000* 0000 V PIC 0(15) COMP.
B37000* 0000 W PIC 0(15) COMP.
B38000* 0000 X PIC 0(15) COMP.
B39000* 0000 Y PIC 0(15) COMP.
B40000* 0000 Z PIC 0(15) COMP.
B41000* G1 STATE=NA PIC X(3).
B42000* PROCEDURE DIVISION.
B43000* OPEN-UP SECTION.
B44000* OPEN-FILES.
B45000* OPEN INPUT REM-IN.
B46000* OPEN INPUT REM-2.
B47000* OPEN OUTPUT REM-OUT.
B48000* OPEN OUTPUT PLOTDATA.
B49000* MOVE "ARE YOU READY TO SET UP PLOT DATA?" TO
B50000* TTY-OUT.
B51000* WRITE TTY-OUT.
B52000* READ REM-IN AT END NEXT SENTENCE.
B53000* IF TTY-IN NOT EQUAL TO "YES" GO TO EQU.
B54000* IN=1.
B55000* MOVE "WOULD YOU LIKE OUR STANDARD SET OF PLOTS..."
B56000* TO TTY-OUT;WRITE TTY-OUT.
B57000* READ REM-IN AT END NEXT SENTENCE.
B58000* IF TTY-IN EQUALS "YES"
B59000* PERFORM STANDARD-SET;GO TO EQU.
B60000* IF TTY-IN IS NOT EQUAL TO "YES" AND
B61000* IF TTY-IN IS NOT EQUAL TO "NO" MOVE
B62000* "TYPE IN A YES OR A NO ANSWER PLEASE" TO
B63000* TTY-OUT;WRITE TTY-OUT;GO TO IN=1.
B64000* IF TTY-IN EQUALS "NO" GO TO PLOT-PRODUCE.
B65000* STANDARD-SET.
B66000* MOVE SPACES TO DEG-DUMMY.
B67000* MOVE 2.0 TO DEGREE-OUT;WRITE PERSPECTIVE-
B68000* =DEGREE INVAID KEY GO TO EQU.
B69000* MOVE 4.0 TO DEGREE-OUT;WRITE PERSPECTIVE-
B70000* =DEGREE INVAID KEY GO TO EQU.
B71000* MOVE 0.0 TO DEGREE-OUT;WRITE PERSPECTIVE-
B72000* =DEGREE INVAID KEY GO TO EQU.
B73000* PER-FIND.
B74000* COMPUTE TANK ROUNDED = A(1)+A(2)+A(3)+A(4)+B(1)+B(2)+
B75000* +B(3)+B(4)+C+D+E+F+G+H+I+J+K+L+M+N+O+P+Q+R+S+T+W+Y+Z.
B76000* COMPUTE A(1) ROUNDED = A(1)/TANK
B77000* COMPUTE A(2) ROUNDED = A(2)/TANK
B78000* COMPUTE A(3) ROUNDED = A(3)/TANK
B79000* COMPUTE A(4) ROUNDED = A(4)/TANK
B80000* COMPUTE B(1) ROUNDED = B(1)/TANK
B81000* COMPUTE B(2) ROUNDED = B(2)/TANK
B82000* COMPUTE B(3) ROUNDED = B(3)/TANK
B83000* COMPUTE B(4) ROUNDED = B(4)/TANK
B84000* COMPUTE C ROUNDED = C/TANK.
B85000* COMPUTE D ROUNDED = D/TANK.
B86000* COMPUTE E ROUNDED = E/TANK.
B87000* COMPUTE F ROUNDED = F/TANK.
B88000* COMPUTE G ROUNDED = G/TANK.
B89000* COMPUTE H ROUNDED = H/TANK.
B90000* COMPUTE I ROUNDED = I/TANK.
B91000* COMPUTE J ROUNDED = J/TANK.
B92000* COMPUTE K ROUNDED = K/TANK.
B93000* COMPUTE L ROUNDED = L/TANK.
B94000* COMPUTE M ROUNDED = M/TANK.
B95000* COMPUTE N ROUNDED = N/TANK.
B96000* COMPUTE O ROUNDED = O/TANK.
B97000* COMPUTE P ROUNDED = P/TANK.
B98000* COMPUTE Q ROUNDED = Q/TANK.
B99000* COMPUTE R ROUNDED = R/TANK.
900000* COMPUTE S ROUNDED = S/TANK.
901000* COMPUTE T ROUNDED = T/TANK.
902000* COMPUTE U ROUNDED = U/TANK.
903000* COMPUTE V ROUNDED = V/TANK.
904000* COMPUTE W ROUNDED = W/TANK.
905000* COMPUTE X ROUNDED = X/TANK.
906000* COMPUTE Y ROUNDED = Y/TANK.
907000* COMPUTE Z ROUNDED = Z/TANK.
908000* CLEAR-OUT.
909000* MOVE Z9 TO A(1),A(2),A(3),A(4),B(1),B(2),B(3),B(4),C,L,E,F,G.
910000* MOVE Z9 TO H,I,J,K,L,M,N,O,P,Q,R,S,T,U,V,W,Y,Z,TANK.
911000* THREE-WRITE-OUT.
912000* PERFORM THREE-WRITE-OUT=1 VARYING X FROM 1 BY 1 UNTIL X
```

```

91200* IS GREATER THAN 2:PERFORM THREE-WRITE-OUT-2 VARYING X FROM 1
91300* BY 1 UNTIL X IS GREATER THAN 4.
91400* WRITE THREE-LABEL INVALID KEY GO TO END.
91500* MOVE SPACES TO THREE-LABEL.
91600* THREE-WRITE-OUT-1.
91700* MOVE A(X) TO MAGNITUDE-H11;WRITE THREE-RECORDS
91800* INVALID KEY GO TO END.
91900* THREE-WRITE-OUT-2.
92000* MOVE B(X) TO MAGNITUDE-H11;WRITE THREE-RECORDS
92100* INVALID KEY GO TO END.
92200* PLOT-PRODUCE SECTION.
92300* DETERMINE-OPTIONS.
92400* MOVE "DO YOU WISH TO PRODUCE 3 DIMENSIONAL GRAPHS?"
92500* TO TTY-OUT.
92600* WRITE TTY-OUT.
92700* READ REM-IN AT END NEXT SENTENCE.
92800* IF TTY-IN EQUALS "YES" PERFORM THREE-PRODUCE.
92900* IF TTY-IN IS NOT EQUAL TO "YES" AND IF TTY-IN
93000* IS NOT EQUAL TO "NO" MOVE "SAY WHAT???" TO
93100* TTY-OUT;WRITE TTY-OUT;GO TO DETERMINE-OPTIONS.
93200* REREAD-1.
93300* MOVE "DO YOU WISH TO PRODUCE BAR-GRAPHS (TYPE 1)?"
93400* TO TTY-OUT.
93500* WRITE TTY-OUT.
93600* READ REM-IN AT END NEXT SENTENCE.
93700* IF TTY-IN EQUALS "YES" PERFORM BAR-1-PRODUCE.
93800* IF TTY-IN IS NOT EQUAL TO "NO" AND IF TTY-IN IS
93900* NOT EQUAL TO "YES" MOVE "HUH???" TO TTY-OUT;
94000* WRITE TTY-OUT;GO TO REREAD-1.
94100* REREAD-2.
94200* MOVE "DO YOU WISH TO PRODUCE BAR-GRAPHS (TYPE 2)?"
94300* TO TTY-OUT.
94400* WRITE TTY-OUT.
94500* READ REM-IN AT END NEXT SENTENCE.
94600* IF TTY-IN EQUALS "YES" PERFORM BAR-2-PRODUCE.
94700* IF TTY-IN IS NOT EQUAL TO "YES" AND IF TTY-IN
94800* IS NOT EQUAL TO "NO" MOVE "WHAT DID YOU SAY???" TO
94900* TTY-OUT;WRITE TTY-OUT;GO TO REREAD-2.
95000* REREAD-3.
95100* MOVE "DO YOU WISH TO PRODUCE PIE GRAPHS?" TO
95200* TTY-OUT.
95300* WRITE TTY-OUT.
95400* READ REM-IN AT END NEXT SENTENCE.
95500* IF TTY-IN EQUALS "YES" PERFORM PIE-PRODUCE.
95600* IF TTY-IN IS NOT EQUAL TO "YES" AND IF TTY-IN
95700* IS NOT EQUAL TO "NO" MOVE "PLEASE REPEAT LAST ANSWER"
95800* TO TTY-OUT;WRITE TTY-OUT;GO TO REREAD-3.
95900* GO TO END.
96000* THREE-PRODUCE SECTION.
96100* THREE-PERSPECTIVE-ANGLES.
96200* MOVE SPACES TO REG-DUMMY.
96300* MOVE "REGIONAL DATA NETWORK" TO THR-PLOT-LABEL.
96400* READ-NUM-PERSPECTIVES.
96500* MOVE "HOW MANY PERSPECTIVES WOULD YOU LIKE?"
96600* TO TTY-OUT;WRITE TTY-OUT.
96700* MOVE "1-6 POSSIBLE" TO TTY-OUT;WRITE TTY-OUT.
96800* READ REM-2 AT END NEXT SENTENCE.
96900* MOVE X-INDEX TO Y.
97000* IF Y EQUALS 0 GO TO READ-PER-ERR.
97100* IF Y IS GREATER THAN 6 GO TO READ-PER-ERR.
97200* IF Y IS NOT NUMERIC GO TO READ-PER-ERR.
97300* PERFORM REREAD-DEGREE X TIMES.
97400* GO TO OPTION-GIVE-30.
97500* READ-PER-ERR.
97600* MOVE "HUH...WHAT DID YOU SAY???" TO TTY-OUT.
97700* WRITE TTY-OUT.
97800* GO TO READ-NUM-PERSPECTIVES.
97900* REREAD-DEGREE.
98000* MOVE SPACES TO REG-DUMMY.
98100* MOVE "WHAT PERSPECTIVE VIEWING ANGLE WOULD YOU LIKE?"
98200* TO TTY-OUT;WRITE TTY-OUT.
98300* MOVE "1-20.0 DEGREES" TO TTY-OUT;WRITE TTY-OUT.
98400* MOVE "2-40.0 DEGREES" TO TTY-OUT;WRITE TTY-OUT.
98500* MOVE "3-70.0 DEGREES" TO TTY-OUT;WRITE TTY-OUT.
98600* MOVE "4-110.0 DEGREES" TO TTY-OUT;WRITE TTY-OUT.
98700* MOVE "5-140.0 DEGREES" TO TTY-OUT;WRITE TTY-OUT.
98800* MOVE "6-160.0 DEGREES" TO TTY-OUT;WRITE TTY-OUT.
98900* READ REM-2 AT END NEXT SENTENCE.
99000* IF X-INDEX NOT EQUAL TO 1.0 AND IF X-INDEX NOT
99100* EQUAL TO 2.0 AND IF X-INDEX NOT EQUAL TO 3.0
99200* AND IF X-INDEX NOT EQUAL TO 4.0 AND IF X-INDEX
99300* NOT EQUAL TO 5.0 AND IF X-INDEX NOT EQUAL TO
99400* 6.0 MOVE "PLEASE ENTER OPTIONS BY CORRECT NUMBER"

```

```

99500* TO TTY-OUT:WRITE TTY-OUT:MOVE "EXAMPLE:21" TO TTY-OUT;
99600* WRITE TTY-OUT;GO TO REREAD-DEGREE;ELSE MOVE X-INDEX TO
99700* DEGREE-OUT;WRITE PERSPECTIVE-DEGREES
99800* INVALID KEY GO TO FRJ.
99900* OPTION-GIVE-3D.
100000* MOVE "READY TO ENTER OPTIONS FOR 3 DIM. GRAPHS?"
100100* TO TTY-OUT.
100200* WRITE TTY-OUT.
100300* MOVE "IF NOT...ENTERED NO NOW...ELSE ENTER YES"
100400* TO TTY-OUT;WRITE TTY-OUT.
100500* READ REM-IN AT END NEXT SENTENCE.
100600* IF TTY-IN EQUALS "NO" GO TO PRE-PR-1-PRODUCE.
100700* IF TTY-IN IS NOT EQUAL TO "NO" AND IF TTY-IN
100800* IS NOT EQUAL TO "YES" MOVE "YES OR NO ANSWER PLEASE" TO
100900* TTY-OUT;WRITE TTY-OUT;GO TO OPTION-GIVE-3D.
101000* THREE-D-OPTION-LIST.
101100* MOVE "THE FOLLOWING OPTIONS ARE OPEN TO YOU FOR 3-D GRAPHS"
101200* TO TTY-OUT;WRITE TTY-OUT.
101300* MOVE SPACES TO TTY-OUT;WRITE TTY-OUT.
101400* MOVE "1--NUMBER OF CLINICS" TO TTY-OUT;WRITE
101500* TTY-OUT.
101600* MOVE "2--NUMBER OF PATIENTS REGISTERED FOR MEDICAD"
101700* TO TTY-OUT;WRITE TTY-OUT.
101800* MOVE "3--NUMBER OF CLINIC VISITS" TO TTY-OUT;WRITE
101900* TTY-OUT.
102000* MOVE "3A--SUPPLY ONLY" TO TTY-OUT;WRITE TTY-OUT.
102100* MOVE "3B--INTAKE" TO TTY-OUT;WRITE TTY-OUT.
102200* MOVE "3C--UNSCHED. REVISIT FOR ANNUAL CHECKUP" TO
102300* TTY-OUT;WRITE TTY-OUT.
102400* MOVE "3D--REVISIT (NOT FIRST OF YEAR)" TO TTY-OUT;
102500* WRITE TTY-OUT.
102600* MOVE "3E--SUPPLY ONLY (UNSCHED)" TO TTY-OUT;WRITE
102700* TTY-OUT.
102800* MOVE "3F--REVISIT(ANNUAL CHECKUP)" TO
102900* TTY-OUT;WRITE TTY-OUT.
103000* MOVE "3G--UNSCHED. NON PROBLEM" TO TTY-OUT;WRITE
103100* TTY-OUT.
103200* MOVE "3H--UNSCHED. PROBLEM VISIT" TO TTY-OUT;
103300* WRITE TTY-OUT.
103400* MOVE "3I--UNSCHED. PROBLEM REVISIT" TO TTY-OUT;
103500* WRITE TTY-OUT.
103600* MOVE "4--NUMBER OF PATIENTS" TO TTY-OUT;WRITE
103700* TTY-OUT.
103800* MOVE "5--AMOUNT OF FUNDS SPENT" TO TTY-OUT;WRITE
103900* TTY-OUT.
104000* MOVE "ENTER THE OPTIONS YOU WANT BY NUMBER" TO TTY-OUT;
104100* WRITE TTY-OUT.
104200* MOVE "ON OPTION #3 AN ENTRY OF 3 WILL GIVE YOU ALL OF 3" TO
104300* TTY-OUT;WRITE TTY-OUT.
104400* MOVE "AN ENTRY LIKE 3B WILL GIVE YOU ONLY #3B ETC.." TO
104500* TTY-OUT;WRITE TTY-OUT.
104600* MOVE "ENTER -LIST- FOR A LISTING OF YOUR OPTIONS" TO TTY-OUT;
104700* WRITE TTY-OUT.
104800* MOVE "ENTER -END- WHEN YOU ARE FINISHED WITH YOUR OPTIONS"
104900* TO TTY-OUT;WRITE TTY-OUT.
105000* MOVE "EXAMPLE...LIST" TO TTY-OUT;WRITE TTY-OUT.
105100* MOVE "LISTING WOULD FOLLOW...SECOND EXAMPLE...."
105200* TO TTY-OUT;WRITE TTY-OUT.
105300* MOVE "21" TO TTY-OUT;WRITE TTY-OUT.
105400* MOVE "23C" TO TTY-OUT;WRITE TTY-OUT.
105500* THREE-D-OPTION-READ.
105600* READ REM-IN AT END NEXT SENTENCE.
105700* IF TTY-IN EQUALS "LIST" GO TO THREE-D-OPTION-LIST.
105800* IF TTY-IN EQUALS "END" MOVE "NO" TO TTY-IN;
105900* GO TO END-THREE-D.
106000* IF TTY-IN EQUALS "1" PERFORM T-NUM-CLINIC;
106100* PERFORM CLEAR-OUT.
106200* IF TTY-IN EQUALS "2" PERFORM T-NUM-MEDICA;
106300* PERFORM CLEAR-OUT.
106400* IF TTY-IN EQUALS "3" PERFORM T-CLIN-A ;
106500* PERFORM T-CLIN-B;PERFORM T-CLIN-C;
106600* PERFORM T-CLIN-D;PERFORM T-CLIN-E;
106700* PERFORM T-CLIN-F;PERFORM T-CLIN-G;
106800* PERFORM T-CLIN-H;PERFORM T-CLIN-I.
106900* PERFORM CLEAR-OUT.
107000* IF TTY-IN EQUALS "3A" PERFORM T-CLIN-A;
107100* PERFORM CLEAR-OUT.
107200* IF TTY-IN EQUALS "3B" PERFORM T-CLIN-B;
107300* PERFORM CLEAR-OUT.
107400* IF TTY-IN EQUALS "3C" PERFORM T-CLIN-C;
107500* PERFORM CLEAR-OUT.
107600* IF TTY-IN EQUALS "3D" PERFORM T-CLIN-D;
107700* PERFORM CLEAR-OUT.

```

```

107800* IF TTY-IM EQUALS "3F" PERFORM T-CLIN-F;
107900* PERFORM CLEAR-CIT.
108000* IF TTY-IM EQUALS "3F" PERFORM T-CLIN-F;
108100* PERFORM CLEAR-CIT.
108200* IF TTY-IM EQUALS "3G" PERFORM T-CLIN-G;
108300* PERFORM CLEAR-CIT.
108400* IF TTY-IM EQUALS "3H" PERFORM T-CLIN-H;
108500* PERFORM CLEAR-CIT.
108600* IF TTY-IM EQUALS "3I" PERFORM T-CLIN-I;
108700* PERFORM CLEAR-CIT.
108800* IF TTY-IM EQUALS "4" PERFORM T-NUM-PATIENT;
108900* PERFORM CLEAR-CIT.
109000* IF TTY-IM EQUALS "5" PERFORM T-NUM-FUNDS;
109100* PERFORM CLEAR-CIT.
109200* GO TO THREE-OPTION-READ.
109300* T-NUM-CLINIC.
109400* PERFORM T-NUM-CLINIC-A VARYING X FROM 1 BY 1 UNTIL X IS
109500* GREATER THAN 4;PERFORM T-NUM-CLINIC-B VARYING X
109600* FROM 1 BY 1 UNTIL X IS GREATER THAN 4.
109700* MOVE "NUMBER OF CLINICS" TO THR-PLOT-LABEL2.
109800* PERFORM PER-FINE;PERFORM THREE-WRITE-OUT.
109900* T-NUM-CLINIC-A.
110000* MOVE CLINIC-TOTAL OF STATE-TOTALS(X) TO A(X).
110100* T-NUM-CLINIC-B.
110200* MOVE CLINIC-TOTAL OF B-STATE-TOTALS(X) TO B(X).
110300* T-NUM-MEDICA.
110400* PERFORM T-NUM-MEDICAID-A VARYING X FROM 1 BY 1 UNTIL X IS
110500* GREATER THAN 4;PERFORM T-NUM-MEDICAID-B VARYING X
110600* FROM 1 BY 1 UNTIL X IS GREATER THAN 4.
110700* MOVE "MEDICAID PATIENTS" TO THR-PLOT-LABEL2.
110800* PERFORM PER-FINE;PERFORM THREE-WRITE-OUT.
110900* T-NUM-MEDICAID-A.
111000* MOVE MEDICAID-TOTAL OF STATE-TOTALS(X) TO A(X).
111100* T-NUM-MEDICAID-B.
111200* MOVE MEDICAID-TOTAL OF B-STATE-TOTALS(X) TO B(X).
111300* T-CLIN-A.
111400* PERFORM T-CLIN-A1 VARYING X FROM 1 BY 1 UNTIL X IS
111500* GREATER THAN 4;PERFORM T-CLIN-A2 VARYING X
111600* FROM 1 BY 1 UNTIL X IS GREATER THAN 4.
111700* MOVE "SUPPLY ONLY VISITS" TO THR-PLOT-LABEL2.
111800* PERFORM PER-FINE;PERFORM THREE-WRITE-OUT.
111900* T-CLIN-A1.
112000* MOVE SUPPLY-ON-SCHED OF STATE-TOTALS(X) TO A(X).
112100* T-CLIN-A2.
112200* MOVE SUPPLY-ON-SCHED OF B-STATE-TOTALS(X) TO B(X).
112300* T-CLIN-B.
112400* PERFORM T-CLIN-B1 VARYING X FROM 1 BY 1 UNTIL X IS
112500* GREATER THAN 4;PERFORM T-CLIN-B2 VARYING X
112600* FROM 1 BY 1 UNTIL X IS GREATER THAN 4.
112700* MOVE "INTAKE VISITS" TO THR-PLOT-LABEL2.
112800* PERFORM PER-FINE;PERFORM THREE-WRITE-OUT.
112900* T-CLIN-B1.
113000* MOVE INTAKE OF STATE-TOTALS(X) TO A(X).
113100* T-CLIN-B2.
113200* MOVE INTAKE OF B-STATE-TOTALS(X) TO B(X).
113300* T-CLIN-C.
113400* PERFORM T-CLIN-C1 VARYING X FROM 1 BY 1 UNTIL X IS
113500* GREATER THAN 4;PERFORM T-CLIN-C2 VARYING X
113600* FROM 1 BY 1 UNTIL X IS GREATER THAN 4.
113700* MOVE "ANNUAL CHECKUP (UNSCHED)" TO THR-PLOT-
113800* LABEL2.
113900* PERFORM PER-FINE;PERFORM THREE-WRITE-OUT.
114000* T-CLIN-C1.
114100* MOVE UNSCHED-ANNUAL-CHECK OF STATE-TOTALS(X) TO A(X).
114200* T-CLIN-C2.
114300* MOVE UNSCHED-ANNUAL-CHECK OF B-STATE-TOTALS(X) TO B(X).
114400* T-CLIN-D.
114500* PERFORM T-CLIN-D1 VARYING X FROM 1 BY 1 UNTIL X IS
114600* GREATER THAN 4;PERFORM T-CLIN-D2 VARYING X
114700* FROM 1 BY 1 UNTIL X IS GREATER THAN 4.
114800* MOVE "REVISIT" TO THR-PLOT-LABEL2.
114900* PERFORM PER-FINE;PERFORM THREE-WRITE-OUT.
115000* T-CLIN-D1.
115100* MOVE REVISIT OF STATE-TOTALS(X) TO A(X).
115200* T-CLIN-D2.
115300* MOVE REVISIT OF B-STATE-TOTALS(X) TO B(X).
115400* T-CLIN-E.
115500* PERFORM T-CLIN-E1 VARYING X FROM 1 BY 1 UNTIL X IS
115600* GREATER THAN 4;PERFORM T-CLIN-E2 VARYING X
115700* FROM 1 BY 1 UNTIL X IS GREATER THAN 4.
115800* PERFORM PER-FINE;PERFORM THREE-WRITE-OUT.
115900* MOVE "SUPPLY ONLY (UNSCHED)" TO THR-PLOT-LABEL2.
116000* T-CLIN-E1.

```

```

116100* MOVE SUPPLY-ON-UNSCHEDE OF STATE-TOTALS(X) TO A(X).
116200* T-CLIN-E2.
116300* MOVE SUPPLY-ON-UNSCHEDE OF R-STATE-TOTALS(X) TO B(X).
116400* T-CLIN-F.
116500* PERFORM T-CLIN-F1 VARYING X FROM 1 BY 1 UNTIL X IS
116600* GREATER THAN 4;PERFORM T-CLIN-F2 VARYING X
116700* FROM 1 BY 1 UNTIL X IS GREATER THAN 4.
116800* MOVE "ANNUAL CHECKUP (REVISIT)" TO THR-
116900* -PLOT-LABEL2.
117000* PERFORM PER-FINE;PERFORM THREE-WRITE-OUT.
117100* T-CLIN-F1.
117200* MOVE REVIS-ANNUAL-CHECK OF STATE-TOTALS(Y) TO A(X).
117300* T-CLIN-F2.
117400* MOVE REVIS-ANNUAL-CHECK OF R-STATE-TOTALS(X) TO B(X);
117500* T-CLIN-G.
117600* PERFORM T-CLIN-G1 VARYING X FROM 1 BY 1 UNTIL X IS
117700* GREATER THAN 4;PERFORM T-CLIN-G2 VARYING X
117800* FROM 1 BY 1 UNTIL X IS GREATER THAN 4.
117900* MOVE "NON PROBLEM (UNSCHEDE)" TO THR-PLOT
118000* -LABEL2.
118100* PERFORM PER-FINE;PERFORM THREE-WRITE-OUT.
118200* T-CLIN-G1.
118300* MOVE UNSCHED-NON-PROB OF STATE-TOTALS(X) TO A(X).
118400* T-CLIN-G2.
118500* MOVE UNSCHED-NON-PROB OF R-STATE-TOTALS(X) TO B(X).
118600* T-CLIN-H.
118700* PERFORM T-CLIN-H1 VARYING X FROM 1 BY 1 UNTIL X IS
118800* GREATER THAN 4;PERFORM T-CLIN-H2 VARYING X
118900* FROM 1 BY 1 UNTIL X IS GREATER THAN 4.
119000* MOVE "PROBLEM VISIT (UNSCHEDE)" TO THR-
119100* -PLOT-LABEL2.
119200* PERFORM PER-FINE;PERFORM THREE-WRITE-OUT.
119300* T-CLIN-H1.
119400* MOVE UNSCHED-PROBLEM OF STATE-TOTALS(X) TO A(X).
119500* T-CLIN-H2.
119600* MOVE UNSCHED-PROBLEM OF R-STATE-TOTALS(X) TO B(X).
119700* T-CLIN-I.
119800* PERFORM T-CLIN-I1 VARYING X FROM 1 BY 1 UNTIL X IS
119900* GREATER THAN 4;PERFORM T-CLIN-I2 VARYING X
120000* FROM 1 BY 1 UNTIL X IS GREATER THAN 4.
120100* MOVE "PROBLEM REVISIT (UNSCHEDE)" TO THR-
120200* -PLOT-LABEL2.
120300* PERFORM PER-FINE;PERFORM THREE-WRITE-OUT.
120400* T-CLIN-I1.
120500* MOVE UNSCHED-PROBLEM-REV OF STATE-TOTALS(X) TO A(X).
120600* T-CLIN-I2.
120700* MOVE UNSCHED-PROBLEM-REV OF R-STATE-TOTALS(X) TO B(X).
120800* T-NUM-FUNDS.
120900* T-NUM-PATIENT.
121000* PERFORM T-NUM-PATIENT-A VARYING X FROM 1 BY 1 UNTIL X IS
121100* GREATER THAN 4;PERFORM T-NUM-PATIENT-B VARYING X
121200* FROM 1 BY 1 UNTIL X IS GREATER THAN 4.
121300* PERFORM PER-FINE;PERFORM THREE-WRITE-OUT.
121400* T-NUM-PATIENT-A.
121500* MOVE PATIENT-TOTAL OF STATE-TOTALS(X) TO A(X).
121600* T-NUM-PATIENT-B.
121700* MOVE PATIENT-TOTAL OF R-STATE-TOTALS(X) TO B(X).
121800* END-THREE.
121900* EXIT.
122000* CON-THREE.
122100* PRE-BAR-1-PRODUCE.
122200* MOVE "I ASSUME THAT YOU DO NOT WISH TO PRODUCE 3-DIM. GRAPHS
122300* -" AFTER ALL. " TO TTY-OUT;WRITE TTY-OUT.
122400* CLOSE PLOTDATA.
122500* OPEN OUTPUT PLOTDATA.
122600* GO TO REREAD-1.
122700* BAR-1-PRODUCE.
122800* BAR-2-PRODUCE.
122900* PTF-PRODUCE.
123000* CLOSING-UP SECTION.
123100* END.
123200* MOVE "END" TO TTY-OUT.
123300* WRITE TTY-OUT.
123400* CLOSE REM-IN.REM-OUT.
123500* CLOSE REM-2.
123600* CLOSE PLOTDATA WITH RELEASE.
123700* CLOSE COUNTY-MASTER WITH LOCK.
123800* STOP RUN.

```

```

100 *$LIST
200 *$*****
300 *$*****
400 *
500 *      HEALTH, EDUCATION AND WELFARE REGION IV PLOT PROGRAM
600 *
700 *$*****
800 *$ WRITTEN BY DANIEL RAY OPIFER AT THE GEORGIA INSTITUTE OF TECHNOLOGY
900 *$ UNDER THE SCHOOL OF INFORMATION AND COMPUTER SCIENCE FOR THE H.E.W.
1000 *$ PROJECT
1100 *$ THERE ARE 4 PROGRAMS THAT HAVE BEEN DEVELOPED AT GA. TECH FOR PLOTTING
1200 *$ NEW DATA. ALL PROGRAMS ARE WRITTEN IN ALGOL FOR THE BURROUGHS
1300 *$ R5700 BUT COULD EASILY BE CONVERTED TO FORTRAN FOR ANOTHER PLOT PACKAGE
1400 *$ BY CALIFORNIA COMPUTER PRODUCTS (CALCOMP). THE FOUR PROGRAMS ARE AS
1500 *$ FOLLOWS:
1600 *
1700 *$ THREEF: THIS ROUTINE IS THE LONGEST AND MOST COMPLEX OF THE FOUR
1800 *$ PROGRAMS DEVELOPED. IT WILL PRODUCE A THREE DIMENSIONAL
1900 *$ PLOTS OF 8 DIFFERENT VARIABLES. THE DATA FOR THE PLOTS IS IN TH
2000 *$ FORM OF 8 DIFFERENT AREAS OF A SINGLE PLOT. EACH AREA WILL PRO-
2100 *$ DUCE A "HILL" OF THE SAME HEIGHT, SLOPE, AND SIZE. EACH "HILL" IS
2200 *$ MULTIPLIED BY A "FACTOR" THAT IS USED TO REPRESENT SOME VAR-
2300 *$ IATION IN DATA BETWEEN THE EIGHT STATES. THIS WILL PRODUCE DEAF
2400 *$ TIC VARIATIONS IN THE SIZE OF EACH "HILL". EACH HILL THEN REPRESENTS
2500 *$ A DIFFERENT STATE IN THE SOUTHEAST REGION. ANY ITEM
2600 *$ THAT IS OF INTEREST CAN BE COMPARED BETWEEN THE EIGHT STATES.
2700 *$ SUGGESTED VARIABLES FOR USING THIS ROUTINE ARE, NUMBER OF PEOPLE
2800 *$ SERVED; MONEY USED BY EACH STATE ROUTINE. IT IS ADVISED THAT THE
2900 *$ VARIABLE CHOSEN BE ONE IN WHICH THE DATA FROM ALL THE STATES IS
3000 *$ CLOSE TOGETHER IN THE SPREAD OF VALUES (I.E. WHERE THE STATES
3100 *$ DIFFER BY ONLY A FEW PERCENT).
3200 *
3300 *$ THE NUMBER OF STATES COMPARED CAN BE EITHER INCREASED OR DE-
3400 *$ CREASED SHOULD SUCH BE REQUIRED IN THE FUTURE. THIS ROUTINE
3500 *$ GENERATES 6 DIFFERENT VIEWING ANGLES FROM THE HORIZON (20.0,
3600 *$ 40.0, 70.0, 110.0, 140.0 AND 160.0 DEGREES) SO THAT ALL DATA IS
3700 *$ CLEARLY VISIBLE AND EASY TO COMPARE. SHOULD OTHER ANGLES
3800 *$ BE DESIRED THIS COULD BE EASILY ACCOMPLISHED. THIS ROUTINE
3900 *$ ALSO GENERATES ONE TABLE OF VALUES AND TWO STATE DATA LOCA-
4000 *$ TION MAPS SO THAT ALL DATA IS CLEARLY IDENTIFIED AND ALL FAC-
4100 *$ TORS USED IN COMPUTATION ARE KNOWN. THIS ROUTINE ALSO PRO-
4200 *$ DUCES 4 LINES OF LABEL HEADING ABOVE EACH PLOT (THE MIDDLE TWO
4300 *$ LINES OF WHICH ARE VARIABLE AND MAY BE CHANGED WITH EACH PER-
4400 *$ SPECTIVE IF DESIRED) SO THAT EACH PLOT IS WELL LABELED.
4500 *
4600 *$ PAR1: THIS ROUTINE IS A SIMPLE ROUTINE WHICH GENERATES BAR GRAPHS
4700 *$ WITH TWO AXIS. THE LOWER AXIS IS A CALENDAR AXIS WHICH ANOTES
4800 *$ THE TWELVE MONTHS OF THE YEAR. THE GRAPH REPRESENTS
4900 *$ TWELVE MONTH TREND FOR ANY VARIABLE OF INTEREST. THE SECOND
5000 *$ AXIS CAN BE LABEL TO IDENTIFY THE VARIABLE GRAPHED (THE
5100 *$ LABEL USED IN THE SAMPLE PLOT IS "NUMBER OF PEOPLE SERVED").
5200 *$ A TRIANGLE IS PLACED AT THE CENTER AND TOP OF EACH BAR AND
5300 *$ THEN A LINE IS DRAWN TO CONNECT ALL THE TRIANGLES SO
5400 *$ THAT THE TREND IS EASY TO SEE. THIS ROUTINE ALSO PRODUCES A
5500 *$ TABLE OF VALUES SO THAT ALL VALUES USED ARE KNOWN. VALUES
5600 *$ WILL BE IN THE FORM OF A PERCENTAGE OF THE ACTUAL DATA COMPARED
5700 *
5800 *$ PAR2: THIS ROUTINE IS SIMILAR TO PAR1 IN THAT IT ALSO PRODUCES A BAR
5900 *$ GRAPH. IT IS DESIGNED TO REFLECT PERIOD INCREASES FOR SOME VARA-
6000 *$ BLE BETWEEN THE EIGHT STATES. AT PRESENT THE ROUTINE IS SET UP
6100 *$ TO PLOT DATA FOR THREE PERIODS OF TIME. PERIOD A SHOWS UP AS THE
6200 *$ LOWER PART OF EACH STATE'S BAR. THIS BAR IS HATCHED FROM LEFT
6300 *$ TO RIGHT AT SIX LINES PER INCH. PERIOD B IS THE CENTER BAR
6400 *$ WHICH IS LEFT UNHATCHED TO MAKE IT DISTINCTIVE FROM PERIOD A.
6500 *$ PERIOD C IS THE UPPER BAR WHICH IS HATCHED FROM RIGHT TO LEFT
6600 *$ AT 4 LINES PER INCH. DUE TO THE DIFFERENT HATCHING ALL PERIODS
6700 *$ ARE VERY DISTINCTIVE AND EASY TO COMPARE. A VERTICAL AXIS
6800 *$ IS SUPPLIED TO THE LEFT OF THE GRAPH SO THAT VALUES ARE EASY
6900 *$ TO DETERMINE. THIS AXIS ALSO HAS A LABEL CAPABILITY SO
7000 *$ THAT THE VARIABLE BEING COMPARED IS CLEARLY IDENTIFIED (THE
7100 *$ LABEL USED ON THE SAMPLE PLOT IS "NUMBER OF PEOPLE SERVED")
7200 *$ EACH BAR IS LABELED UNDERNEATH WITH A STATE NAME FOR IDENTI-
7300 *$ FICATION. A TABLE OF VALUES IS ONCE AGAIN SUPPLIED SO THAT
7400 *$ ALL VALUES USED IN THE GENERATION OF THE PLOT ARE KNOWN. THESE
7500 *$ VALUES WILL BE EITHER IN THE FORM OF PERCENTAGES OR FACTORS THA
7600 *$ WILL REFLECT THE CONDITIONS OF ACTUAL DATA.
7700 *
7800 *$ PIE: THIS ROUTINE IS DESIGNED FOR PERCENTAGE COMPARISON. IT IS
7900 *$ IN THE FORM OF A CIRCLE WHICH IS DIVIDED INTO "PIE CUTS" TO
8000 *$ REPRESENT THE PERCENTAGE A PARTICULAR VARIABLE TAKES UP
8100 *$ (OUT OF 100 PERCENT). EACH "CUT" IS LABELED AS TO WHICH

```



```

16500* *****
16510* FOR T:=0 STEP 1 UNTIL 5 DO BEGIN
16520* READ(A,Z,FM2,PFA(T));
16525* IF PFA(T)=0 THEN GO TO ANGL0D;
16530* END;
16535* ANGL0D:=1:=T;
16600* SREAD:=READ(A,Z,F12,A,F,G,K,M,N,S,T);
16610* IF A=0 AND F=0 AND G=0 AND K=0 AND M=0
16611* AND N=0 AND S=0 AND T=0 THEN GO TO DATEND;
16650* WRITE(LZDF,F#3);
16670* WRITE(LZDF,F#4);
16675* WRITE(LZDF,F#5);
16680* WRITE(LZDF,F#2,A,F,G,K,M,N,S,T);
16690* FOR T:=0 STEP 1 UNTIL 6 DO HEAD1[ ]:= " ";
16692* READ(A,Z,FM1,F#1,I:=0 STEP 1 UNTIL 6 DO HEA [T]);
16694* FOR T:=0 STEP 1 UNTIL 6 DO HEAD2[ ]:= " ";
16696* READ(A,Z,FM1,F#1,F#1,I:=0 STEP 1 UNTIL 6 DO HEAD2[T]);
16700* *****
16800* THE FOLLOWING SECTION CREATES THE INITIAL DATA NEEDED
16900* BY THE PLOTTER TO PRODUCE FIGHT "HILLS" OF IDENTICAL HEIGHT
17000* WIDTH, AND LENGTH. EACH HILL REPRESENTS A STATE AND WILL
17100* BE MULTIPLIED BY A FACTOR (TAKEN FROM INPUT DATA)
17200* TO REFLECT THE PROPORTIONAL DIFFERENCES OF EACH STATE'S
17300* DATA. THE DATA FOR THESE "HILLS" IS STORED IN TWO 30X
17400* 30 ARRAYS (2-DIMENSIONAL).
17500* *****
17600* FOR I:=0 STEP 1 UNTIL 20 DO BEGIN
17700* FOR J:=0 STEP 1 UNTIL 30 DO BEGIN
17800* IF J GTR 9 THEN GO TO SEC2;
17900* IF J LSS 6 THEN X:=J-ARS(I-5);
18000* IF J LSS 11 AND J GTR 5 THEN X:=10-J-ARS(I-5);
18100* IF J LSS 16 AND J GTR 10 THEN X:=(J-10)-ARS(I-5);
18200* IF J LSS 21 AND J GTR 15 THEN X:=(20-J)-ARS(I-5);
18300* IF J LSS 26 AND J GTR 20 THEN X:=(J-20)-ABS(I-5);
18400* IF J GTR 25 THEN X:=(30-J)-ARS(I-5);
18500* GO TO FIN;
18600* SEC2: IF J LSS 6 THEN X:=J-ARS(I-15);
18700* IF J LSS 11 AND J GTR 5 THEN X:=10-J-ARS(I-15);
18800* IF J LSS 16 AND J GTR 10 THEN X:=J-10-ABS(I-15);
18900* IF J LSS 21 AND J GTR 15 THEN X:=20-J-ABS(I-15);
19000* IF J LSS 26 AND J GTR 20 THEN X:=J-20-ABS(I-15);
19100* IF J GTR 25 THEN X:=30-J-ARS(I-15);
19200* *****
19300* NOW THE CORRECT FACTORS FOR EACH STATE ARE MULTIPLIED BY
19400* THEIR RESPECTIVE "HILLS" AFTER THIS THE DATA IS STORED
19500* WITHIN THE TWO ARRAYS. TWO ARRAYS ARE USED SO THAT ONE MAY
19600* BE USED FOR PERSPECTIVE VIEWING ANGLES LESS THAN 90 DEGREES
19700* WHILE THE SECOND IS A ROTATION OF THE FIRST AND IS USED
19800* TO SIMULATE ANGLES GREATER THAN 90 DEGREES. THIS SECTION
19900* ALSO FILLS THE AREAS OF THE ARRAYS THAT ARE OF NO INTEREST
20000* WITH ZEROS SO THAT THESE AREAS WILL APPEAR FLAT WHEN THE
20100* FINAL PLOT IS PRODUCED.
20200* *****
20300* FIN: IF I LSS 10 AND J LSS 10 AND X GEQ 0 THEN Y:=X*A;
20400* IF I GTR 9 AND J LSS 10 AND X GEQ 0 THEN Y:=X*F;
20500* IF I GTR 5 AND I LSS 16 AND J GTR 5 AND J LSS 16 AND X LEQ 0 THEN Y:=X*
20600* G;
20700* IF J LEQ 20 AND J GEQ 10 AND I LSS 10 AND X GEQ 0 THEN Y:=X*K;
20800* IF I GEQ 10 AND J LEQ 20 AND J GTR 10 AND X GEQ 0 THEN Y:=X*M;
20900* IF I GTR 5 AND I LSS 15 AND J GTR 15 AND J LEQ 25 AND X LEQ 0 THEN Y:=X
21000* N;
21100* IF I GTR 10 AND J GTR 20 AND X GEQ 0 THEN Y:=X*T;
21200* IF I LSS 10 AND J GTR 20 AND X GEQ 0 THEN Y:=X*S;
21300* IF I LEQ 6 AND X LSS 0 THEN Y:=0;
21400* IF I GTR 15 AND X LSS 0 THEN Y:=0;
21500* IF J LEQ 6 AND X LEQ 0 THEN Y:=0;
21600* IF J GEQ 25 AND X LSS 0 THEN Y:=0;
21700* Y:=ABS(Y);
21800* DAT[I,J]:=Y;
21900* FIN2: IF I LSS 10 AND J LSS 10 AND X GTR 0 THEN X:=X*I;
22000* IF I GTR 9 AND J LSS 10 AND X GTR 0 THEN X:=X*S;
22100* IF I GTR 5 AND I LSS 16 AND J GTR 5 AND J LSS 16 AND X LSS 0 THEN X:=X*
22200* N;
22300* IF J LSS 20 AND J GTR 10 AND I LSS 10 AND X GTR 0 THEN X:=X*M;
22400* IF I GTR 10 AND J LSS 20 AND J GTR 10 AND X GTR 0 THEN X:=X*K;
22500* IF I GTR 5 AND I LSS 15 AND J GTR 15 AND J LSS 25 AND X LSS 0 THEN X:=X
22600* G;
22700* IF I GTR 10 AND J GTR 20 AND X GTR 0 THEN X:=X*A;
22800* IF I LSS 10 AND J GTR 20 AND X GTR 0 THEN X:=X*F;
22900* IF I LSS 5 AND X LSS 0 THEN X:=0;
23000* IF I GTR 15 AND X LSS 0 THEN X:=0;
23100* IF J LSS 6 AND X LSS 0 THEN X:=0;
23200* IF J GTR 25 AND X LSS 0 THEN X:=0;

```

```

23300* Y:=ABS(X);
23400* DAT2(T,J):=X;
23500* END;
23600* END;
23700* *****
23800* *****
23900* *****
24000* *****
24100* ANGL[0]:=20.0;
24200* ANGL[1]:=40.0;
24300* ANGL[2]:=70.0;
24400* ANGL[3]:=110.0;
24500* ANGL[4]:=140.0;
24600* ANGL[5]:=160.0;
24700* PLOTS(700.0,11.0,0);
24800* *****
24900* *****
25000* *****
25100* Z[0]:="HEW Pp";
25200* Z[1]:="OBJECT ";
25300* SYMBIL(0.0,10.0,(0.28,7,0.0,12));
25500* Z[0]:="3-DIM";
25600* Z[1]:="ENSTION";
25700* Z[2]:="AL PLO";
25800* Z[3]:="TS";
25900* SYMBIL(0.0,9.5,(0.14,7,0.0,24));
27600* SYMBIL(0.0,8.2,(0.07,7,0.0,72));
27700* Z[0]:="PRODUc";
27800* Z[1]:="ED BY ";
27900* Z[2]:="ADVANC";
28000* Z[3]:="ED AND";
28100* Z[4]:=" BASTIC";
28200* Z[5]:=" ALGOI";
28300* Z[6]:=" PLOT ";
28400* Z[7]:="ROUTIN";
28500* Z[8]:="ES";
28600* SYMBIL(0.0,7.5,(0.07,7,0.0,54));
28700* Z[0]:="COPYRT";
28800* Z[1]:="GHT 10";
28900* Z[2]:="66 BY ";
29000* Z[3]:="CALIF.";
29100* Z[4]:="COMPUT";
29200* Z[5]:="ER PRON";
29300* Z[6]:="DUCTS ";
29400* SYMBIL(0.0,7.0,(0.07,7,0.0,42));
29500* Z[0]:="ON A R";
29600* Z[1]:="URROUC";
29700* Z[2]:="HS 857";
29800* Z[3]:="OD AT ";
29900* Z[4]:="THE GA";
30000* Z[5]:=" INST.";
30100* Z[6]:=" OF TF";
30200* Z[7]:="CHNOL";
30300* Z[8]:="GY";
30400* SYMBIL(0.0,6.5,(0.07,7,0.0,54));
30500* *****
30600* *****
30700* *****
30800* *****
30900* *****
31000* *****
31100* *****
31200* *****
31300* *****
31400* *****
31500* *****
31600* *****
31700* *****
31800* *****
31900* *****
32000* *****
32100* *****
32200* *****
32300* *****
32400* *****
32500* *****
32600* *****
32700* *****
32800* *****
32900* *****
33000* *****
33100* *****
33200* *****

```

```
33300* 7[1]:="A.":
33400* SYMBL(C.0,5.5,C.14,7,0.0,12);
33500* 7[0]:="KENTU":
33600* 7[1]:="KY":
33700* SYMBL(C.0,5.0,C.14,7,0.0,12);
33800* 7[0]:="MISSIS":
33900* 7[1]:="STPPT":
34000* SYMBL(C.0,4.5,C.14,7,0.0,12);
34100* 7[0]:="N.CAR":
34200* 7[1]:="LINA":
34300* SYMBL(C.0,4.0,C.14,7,0.0,12);
34400* 7[0]:="S.CAR":
34500* 7[1]:="LINA":
34600* SYMBL(C.0,3.5,C.14,7,0.0,12);
34700* 7[0]:="TENNES":
34800* 7[1]:="SF":
34900* SYMBL(C.0,3.0,C.14,7,0.0,12);
35000* NUMRTRCH(0.4,6.5,C.14,7,0.0,2);
35100* NUMRTRCH(0.4,6.5,C.14,7,0.0,2);
35200* NUMRTRCH(0.4,5.5,C.14,7,0.0,2);
35300* NUMRTRCH(0.4,5.5,C.14,7,0.0,2);
35400* NUMRTRCH(0.4,4.5,C.14,7,0.0,2);
35500* NUMRTRCH(0.4,4.5,C.14,7,0.0,2);
35600* NUMRTRCH(0.4,3.5,C.14,7,0.0,2);
35700* NUMRTRCH(0.4,3.5,C.14,7,0.0,2);
35800* PLNT(C.0,0.0,3);
35900* PLNT(4.5,8.5,2);
36000* PLNT(4.5,8.5,2);
36100* PLNT(4.5,0.0,2);
36200* PLNT(0.0,0.0,2);
36300* PLNT(0.0,7.9,3);
36400* PLNT(4.5,7.9,2);
36500* PLNT(4.5,6.9,2);
36600* PLNT(0.0,6.9,2);
36700* PLNT(0.0,6.4,3);
36800* PLNT(4.5,6.4,2);
36900* PLNT(4.5,5.9,3);
37000* PLNT(0.0,5.9,2);
37100* PLNT(0.0,5.4,3);
37200* PLNT(4.5,5.4,2);
37300* PLNT(4.5,4.9,3);
37400* PLNT(0.0,4.9,2);
37500* PLNT(0.0,4.4,3);
37600* PLNT(4.5,4.4,2);
37700* PLNT(4.5,3.9,3);
37800* PLNT(0.0,3.9,2);
37900* PLNT(0.0,3.4,3);
38000* PLNT(4.5,3.4,2);
38100* PLNT(4.5,2.9,3);
38200* PLNT(0.0,2.9,2);
38300* PLNT(10.0,0.0,23);
38400* *****
38500* *****
38600* *****
38700* *****
38800* *****
38900* *****
39000* *****
39100* *****
39200* *****
39300* *****
39400* *****
39500* *****
39600* *****
39700* *****
39800* *****
39900* *****
40000* *****
40100* *****
40200* *****
40300* *****
40400* *****
40500* *****
40600* *****
40700* *****
40800* *****
40900* *****
41000* *****
41100* *****
41200* *****
41300* *****
41400* *****
41500* *****
```

```
*****
NOW THE ANGLES NEEDED BY THE CALCOMP THREE DIMENSIONAL PLOT PROCEDURE
ARE PUT IN ARRAY FORM AND WE BUILD A "DATA LOCATION MAP" SO THAT EACH
"HILL" IS PROPERLY IDENTIFIED. (NOTE THAT X ORIGIN WAS SHIFTED ANOTHER
10 INCHES IN THE LAST STATEMENT OF THE LAST SECTION.
THERE ARE TWO DATA MAPS PRODUCED: ONE FOR PERSPECTIVE VIEWING ANGLES
LESS THAN 90 DEGREES AND ANOTHER FOR VIEWING ANGLES GREATER THAN
90 DEGREES.
```

```
*****
ANGL[10]:=20.0;
ANGL[11]:=40.0;
ANGL[12]:=70.0;
ANGL[13]:=70.0;
ANGL[14]:=40.0;
ANGL[15]:=20.0;
7[0]:="STATE":
7[1]:="LOCATI":
7[2]:="DATA":
7[3]:="A. MAP":
SYMBL(C.0,8.0,C.14,7,0.0,24);
PFACT(2.5,0.5,3.0,4.5,45.0,3);
PFACT(2.0,1.0,3.0,1.0,0.0,3);
PFACT(1.0,2.0,1.0,3.0,0.0,3);
PFACT(2.0,3.0,1.0,3.0,0.0,3);
PFACT(3.0,2.0,3.0,1.0,0.0,3);
7[0]:="FLA":
SYMBL(2.1,1.25,C.07,7,0.0,6);
7[0]:="ALA":
SYMBL(1.1,2.25,C.07,7,0.0,6);
7[0]:="GA":
SYMBL(2.1,2.25,C.07,7,0.0,6);
7[0]:="MIS":
```

```

41600* SYMBUL(3.1,2.25,0.07,Z,0.0,6);
41700* Z[0]:="KEN ";
41800* SYMBUL(2.1,3.25,0.07,Z,0.0,6);
41900* Z[0]:="NC ";
42000* SYMBUL(3.1,3.25,0.07,Z,0.0,6);
42100* Z[0]:="TFN ";
42200* SYMBUL(4.1,3.25,0.07,Z,0.0,6);
42300* Z[0]:="SC ";
42400* SYMBUL(3.1,4.25,0.07,Z,0.0,6);
42500* FACTOR(1.0);
42600* PLOT(10.0,0.0,23);%
42700* FOR W:=0 STEP 1 UNTIL L DO BEGIN%<-----% HERE IS WHERE ACTUAL
42800* IF W=3 THEN FOR Z7:=0 STEP 1 UNTIL 0 DO BEGIN% PLOTTING LOOP
42900* Z[0]:="STATE "; % IS INITIALIZED
43000* Z[1]:="LOCAT "; %
43100* Z[2]:="ON DAT ";
43200* Z[3]:="A MAP. ";
43300* SYMBUL(0.0,8.0,0.14,Z,0.0,24);
43400* RECT(2.5,0.5,3.0,45.0,3);
43500* RECT(2.0,1.0,3.0,1.0,0.0,3);
43600* RECT(1.0,2.0,1.0,3.0,0.0,3);
43700* RECT(2.0,3.0,1.0,3.0,0.0,3);
43800* RECT(3.0,2.0,3.0,1.0,0.0,3);
43900* Z[0]:=" SC ";
44000* SYMBUL(2.1,1.25,0.07,Z,0.0,6);
44100* Z[0]:=" TFN ";
44200* SYMBUL(1.1,2.25,0.07,Z,0.0,6);
44300* Z[0]:=" NC ";
44400* SYMBUL(2.1,2.25,0.07,Z,0.0,6);
44500* Z[0]:=" KEN ";
44600* SYMBUL(3.1,2.25,0.07,Z,0.0,6);
44700* Z[0]:=" MTS ";
44800* SYMBUL(2.1,3.25,0.07,Z,0.0,6);
44900* Z[0]:=" GA ";
45000* SYMBUL(3.1,3.25,0.07,Z,0.0,6);
45100* Z[0]:=" ALA ";
45200* SYMBUL(4.1,3.25,0.07,Z,0.0,6);
45300* Z[0]:=" FLA ";
45400* SYMBUL(3.1,4.25,0.07,Z,0.0,6);
45500* PLOT(10.0,0.0,23);
45600* END;
45700* Z[0]:="HEW PD";
45800* Z[1]:="OBJECT ";
45900* SYMBUL(1.3,10.0,0.14,Z,0.0,12);
46000* Z[0]:="SAMPLE";
46100* Z[1]:=" STATE";
46200* Z[2]:=" COMPA";
46300* Z[3]:="RISTON";
46400* Z[4]:=" PLOTS";
46500* SYMBUL(999.999,0.14,Z,0.0,30);
46600*% *****
46700*% NOW WE READ IN THE TWO VARIABLE HEADINGS
46800*% *****
47100* SYMBUL(1.3,9.3,0.14,HEAD,0.0,42);
47400* SYMBUL(1.3,8.7,0.14,HEAD,0.0,42);
47500* Z[0]:="PERSPE";
47600* Z[1]:="CTIVE ";
47700* Z[2]:="VIEWIN";
47800* Z[3]:="G ANGL";
47900* Z[4]:="E FROM";
48000* Z[5]:=" HORIZ";
48100* Z[6]:="ON IS. ";
48200* SYMBUL(1.3,8.0,0.14,Z,0.0,42);
48300* NUMBER(999.0,999.0,0.14,ANG[W],0.0,4);
48400* Z[0]:=" DEGR";
48500* Z[1]:="ES ";
48600* SYMBUL(999.0,999.0,0.14,Z,0.0,12);
48700* PLOT(0.0,0.0,23);
48800*% *****
48900*% NOTE THAT IN THE FOLLOWING SECTION THERE IS A CONDITION WHICH DE-
49000*% TERMINES WHICH OF TWO SETS OF PARAMETERS TO SEND TO THE CALCOMP
49100*% THREE D PROCEDURE. ONE IS FOR ANGLES OF PERSPECTIVE LESS THAN 90
49200*% DEGREES AND IT USES FOR ARRAY DATA THE ORIGINAL ARRAY LABELED "DAT"
49300*% THE SECOND IS FOR ANGLES OF PERSPECTIVE GREATER THAN 90 DEGREES AND
49400*% IT USES THE "UPSIDE DOWN ARRAY"-"DAT2".
49500*% *****
49600* IF W GT 2 THEN GO TO FRONT;
49700* THREE D(5.0,5.0,ANG[PERS[W]],DAT,20,30);%<---% HERE IS WHERE THE
49800* PLOT(10.0,0.0,23); %THREE DIMENSIONAL
49900* GO TO BACK; %PLOTS ARE GENERATED
50000* FRONT; THREE D(5.0,5.0,ANG[F[PERS[W]],DAT2,20,30);%<---%
50100* PLOT(10.0,0.0,23); %
50200* BACK;END; %*****

```

```

50300* PLOT(C10.0,0.0,23);
50310* PLOT(S(0.0,0.0,999));
50315* GO TO SPREAD;
50400* DATEWD;
50500* END;
50550* GO TO HALT:XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
50600* GO TO PROCED2;
50700* RESTART:WRITE(SS,RF2);
50701* FOR F:=0 STEP 1 UNTIL 5 DO SPACE,RESTART,1)(CONSTAR2);
50702* CONSTAR2;
50800* PROCED2:WRITE(REFSTART,RF5);
50900* *****
51000* *****
51100* *****
51200* BEGIN
51400* FILE OUT LZDF READTE (1,10);
51500* ARRAY Z(0:15);
51600* REAL ARRAY W(0:25),J(0:25),M(0:25),I(0:25);
51700* REAL H,D,FACT,ALF,RET;
51800* REAL FIR,DFL,DFI2,DFI2,FIR3,DFI3;
51900* INTEGER K,JA;
52000* LABEL REPEAT,GOON,KEG0;
52100* REAL X;
52200* FORMAT FM1(F4.2);
52300* FORMAT FM2("ERROR..BAR IS HIGHER THAN 10.0 INCHES..REENTER");
52350* FORMAT FM3(4A1R);
52360* FORMAT FM4("ROUTINE RAR1");
52400* *****
52500* *****
52600* *****
52700* *****
52800* *****
52900* *****
53000* *****
53100* *****
53200* *****
53300* *****
53400* *****
53500* *****
53600* *****
53700* *****
53800* *****
53900* *****
54000* *****
54100* *****
54200* *****
54300* *****
54400* *****
54500* *****
54600* *****
54700* *****
54800* *****
54900* *****
55000* *****
55100* *****
55200* *****
55300* *****
55400* *****
55500* *****
55600* *****
55700* *****
55800* *****
55900* *****
56000* *****
56100* *****
56200* *****
56300* *****
56400* *****
56500* *****
56600* *****
56700* *****
56800* *****
56900* *****
57000* *****
57100* *****
57200* *****
57300* *****
57400* *****
57500* *****
57600* *****
57700* *****
57800* *****
57900* *****
58000* *****
58100* *****
58200* *****
58300* *****
58400* *****
58500* *****
58600* *****
58700* *****
58800* *****
58900* *****
59000* *****
59100* *****
59200* *****
59300* *****
59400* *****
59500* *****
59600* *****
59700* *****
59800* *****
59900* *****

```



```

60000* SYMBUL(0.0,7.0,0.07,7,0.0,42);
60100* Z[0]:="ON A R";
60200* Z[1]:="URRQU";
60300* Z[2]:="HS R57";
60400* Z[3]:="ON AT ";
60500* Z[4]:="THE GA";
60600* Z[5]:="INST.";
60700* Z[6]:="OF TF";
60800* Z[7]:="CHNOL";
60900* Z[8]:="BY ";
61000* SYMBUL(0.0,6.5,0.07,7,0.0,54);
61100* PLNT(12.0,0.0,23);
61200* *****
61300* *NOW A CALANDER AXIS IS CONSTRUCTED AND THE DATA FOR BAR HEIGHT
61400* *IS ENTERED.
61500* *****
61510* Z[0]:="CONTRA";
61520* Z[1]:=" . COUN";
61530* Z[2]:=" ";
61540* SYMBUL(0.0,0.5,0.07,7,0.0,18);
61550* Z[0]:="STER.0";
61560* Z[1]:="OUN. ";
61570* Z[2]:=" ";
61580* SYMBUL(1.0,0.5,0.07,7,0.0,18);
61590* Z[0]:="A PFR";
61600* Z[1]:="OUN. ";
61610* SYMBUL(2.0,0.5,0.07,7,0.0,18);
61620* Z[0]:="APORT.";
61630* SYMBUL(3.0,0.5,0.07,7,0.0,18);
61640* Z[0]:="SPC.SF";
61650* Z[1]:="P. COUN";
61660* Z[2]:=" ";
61670* SYMBUL(4.0,0.5,0.07,7,0.0,18);
61680* Z[0]:="OTHER";
61690* Z[1]:="OUN. ";
61700* Z[2]:=" ";
61710* SYMBUL(5.0,0.5,0.07,7,0.0,18);
61720* Z[0]:="B. P.";
61730* Z[1]:="TFST ";
61740* SYMBUL(6.0,0.5,0.07,7,0.0,18);
61742* Z[0]:="V.I. P";
61744* Z[1]:="LOAD T";
61746* Z[2]:="EST ";
61748* SYMBUL(7.0,0.5,0.07,7,0.0,18);
61750* Z[0]:="HCT ";
61760* Z[1]:="OR HGR";
61765* Z[2]:=" ";
61770* SYMBUL(8.0,0.5,0.07,7,0.0,18);
61780* Z[0]:="VDR";
61785* Z[1]:=" ";
61790* SYMBUL(9.0,0.5,0.07,7,0.0,18);
61800* Z[0]:="PAP SM";
61810* Z[1]:="EAR ";
61820* SYMBUL(10.0,0.5,0.07,7,0.0,18);
61830* Z[0]:="G.C. C";
61840* Z[1]:="ULTURF";
61850* SYMBUL(11.0,0.5,0.07,7,0.0,18);
61860* Z[0]:="RFEAST";
61870* Z[1]:="FXAM ";
61880* SYMBUL(12.0,0.5,0.07,7,0.0,18);
61890* Z[0]:="PFLVIC";
61900* SYMBUL(13.0,0.5,0.07,7,0.0,18);
61910* Z[0]:="URINA";
61920* Z[1]:="I. ";
61930* SYMBUL(14.0,0.5,0.07,7,0.0,18);
61940* Z[0]:="STC.CF";
61950* Z[1]:="LI TF5";
61960* Z[2]:="T ";
61970* SYMBUL(15.0,0.5,0.07,7,0.0,18);
61980* Z[0]:="STER.";
61990* Z[1]:=" ";
62000* Z[2]:=" ";
62010* SYMBUL(16.0,0.5,0.07,7,0.0,18);
62020* Z[0]:="IMFERT";
62030* Z[1]:=" ";
62040* SYMBUL(17.0,0.5,0.07,7,0.0,18);
62042* Z[0]:="PREG. ";
62044* Z[1]:="TFST ";
62046* SYMBUL(18.0,0.5,0.07,7,0.0,18);
62048* Z[0]:="RI DD";
62050* SYMBUL(19.0,0.5,0.07,7,0.0,18);
62052* Z[0]:="OTHER ";
62054* SYMBUL(20.0,0.5,0.07,7,0.0,18);

```

```

62102* FOR K:=0 STEP 1 UNTIL 20 DO BEGIN
62104* REPEAT:
62106* READ(AL7, //, T(K)) [GOON];
62108* IF T(K) GT 10.0 THEN WRITE(17DF, FM2) ;
62200* IF T(K) GT 10.0 THEN GO TO HALT;
62300* WRITE(17DF, //, T(K));
62400* END;
62500* GO TO KEED;
62600* GOON: WRITE(17DF, <"END ENCOUNTERED">);
62601* GO TO HALT;
62700* *****
62800* HERE IS WHERE THE PRIMARY LOOP OF THIS PROGRAM IS INITIATED. WITHIN
62900* IT ALL OF THE BARS ARE PRODUCED, A SMALL TRIANGLE IS CENTERED AT
63000* THE TOP OF EACH BAR, AND ALL THE TRIANGLES ARE CONNECTED TO MAKE TRENDS
63100* HIGHLY VISIBLE.
63200* *****
63300* KEED:
63400* FOR K:=0 STEP 1 UNTIL 20 DO BEGIN
63500* T(K):=K+0.5;
63600* Y:=2;
63700* PARC(1.0,0.0,T(K),1.0,J(K),X,18);Y<-----%*****
63800* END;Y %*****
63900* PLNT(0.0,1.0,3);9 %*****
64000* 9 %*****
64400* Z[0]:="SERVIC";
64410* Z[1]:="FS PRO";
64420* Z[2]:="VIDED ";
64500* *****
64600* IN THIS BLOCK WE DRAW A Y AXIS AND LABEL IT. AFTER THAT
64700* THE X ORIGIN IS MOVED 14 INCHES TO THE RIGHT AND TABLE OF VALUES
64800* IS CONSTRUCTED IN CHART FORM.
64900* *****
65000* AXIS(0.0,1.5,2,18,10.0,90.0,0.0,1.0);
65100* PLNT(22.0,0.0,23);
65200* Z[0]:="TABLE ";
65300* Z[1]:="OF VAL";
65400* Z[2]:="UES ";
65500* SYMBOL(0.0,8.0,(.28,7,0.0,18));
65600* Z[0]:="DATA F";
65700* Z[1]:="LEMENT";
65710* Z[2]:="-----";
65720* Z[3]:="-----";
65800* SYMBOL(0.0,7.0,(.14,7,0.0,18));
65900* WHERE(CH,D,FACT);
66000* Z[0]:=" VALUE";
66100* Z[1]:=" USED ";
66110* Z[2]:=" ";
66120* Z[3]:=" ";
66200* SYMBOL(CH+0.1,0,(.14,7,0.0,18));
66300* WHERE(ALP,REFT,2);
66400* PLNT(0.0,8.0,3);
66500* PLNT(ALP,REFT,3);
66600* PLNT(CH,8.0,3);
66700* PLNT(CH,0.0,2);
67100* Z[0]:="CONTRA";
67110* Z[1]:="CEPTI";
67120* Z[2]:="N. COUN";
67130* Z[3]:="S. ";
67300* SYMBOL(0.0,6.5,(.14,7,0.0,18));
67310* Z[0]:="STERTI";
67320* Z[1]:="IZATI";
67330* Z[2]:="N. COUN";
67340* Z[3]:="S. ";
67500* SYMBOL(0.0,6.0,(.14,7,0.0,18));
67510* Z[0]:="INFERT";
67520* Z[1]:="ILITY ";
67530* Z[2]:="COUNS.";
67540* Z[3]:=" ";
67550* SYMBOL(0.0,5.5,(.14,7,0.0,18));
67610* Z[0]:="ARDRTI";
67620* Z[1]:="ON. COU";
67630* Z[2]:="NS. ";
67900* SYMBOL(0.0,5.0,(.14,7,0.0,18));
67910* Z[0]:="SOCTAI";
67920* Z[1]:="SERVI";
67930* Z[2]:="CES CO";
67940* Z[3]:="UNS. ";
68100* SYMBOL(0.0,4.5,(.14,7,0.0,18));
68110* Z[0]:="OTHER ";
68120* Z[1]:="COUNS.";
68130* Z[2]:=" ";
68140* Z[3]:=" ";
68300* SYMBOL(0.0,4.0,(.14,7,0.0,18));

```

```

68310* Z[0]:="FROND ";
68320* Z[1]:="PRESSURE";
68330* Z[2]:="RF ";
68340* SYMBIL(C,0,3,5,C,14,7,0,0,18);
68500* Z[0]:="V.D. R";
68510* Z[1]:="FROND T";
68520* Z[2]:="EST ";
68800* SYMBIL(C,0,3,0,C,14,7,0,0,18);
68810* Z[0]:="HCT 0";
68820* Z[1]:="HCB T";
69100* SYMBIL(C,0,2,5,C,14,7,0,0,18);
69110* Z[0]:="VDRI T";
69120* Z[1]:="EST ";
69130* Z[2]:=" ";
69400* SYMBIL(C,0,2,0,C,14,7,0,0,18);
69410* Z[0]:="PAP SM";
69420* Z[1]:="EAR ";
69600* SYMBIL(C,0,1,5,C,14,7,0,0,18);
69610* Z[0]:="G.C. P";
69620* Z[1]:="ULTURE";
69630* SYMBIL(C,0,1,0,C,14,7,0,0,18);
69700* NUMBFRCH+0.4,6,C,0,14,7,0,0,22);
69710* NUMBFRCH+0.4,6,C,0,14,7,0,0,22);
69720* NUMBFRCH+0.4,5,C,0,14,7,0,0,22);
69730* NUMBFRCH+0.4,5,C,0,14,7,0,0,22);
69740* NUMBFRCH+0.4,4,C,0,14,7,0,0,22);
69750* NUMBFRCH+0.4,4,C,0,14,7,0,0,22);
69760* NUMBFRCH+0.4,3,C,0,14,7,0,0,22);
69770* NUMBFRCH+0.4,3,C,0,14,7,0,0,22);
69780* NUMBFRCH+0.4,2,C,0,14,7,0,0,22);
69790* NUMBFRCH+0.4,2,C,0,14,7,0,0,22);
69800* NUMBFRCH+0.4,1,C,0,14,7,0,0,22);
69810* NUMBFRCH+0.4,1,C,0,14,7,0,0,22);
69820* PLNT(C,0,0,8.5,2);
69830* PLNT(C,0,0,8.5,2);
69840* PLNT(4.3,8.5,2);
69850* PLNT(4.3,0,0,2);
69860* PLNT(C,0,0,0,0,2);
69870* PLNT(C,0,0,7.9,3);
69880* PLNT(4.3,7.9,3);
69890* PLNT(4.3,6.9,3);
69900* PLNT(C,0,0,6.9,2);
69910* PLNT(C,0,0,6.4,3);
69920* PLNT(4.3,6.4,2);
69930* PLNT(4.3,5.9,3);
69940* PLNT(C,0,0,5.9,2);
69950* PLNT(C,0,0,5.4,3);
69960* PLNT(4.3,5.4,2);
69970* PLNT(4.3,4.9,3);
69980* PLNT(C,0,0,4.9,2);
69990* PLNT(C,0,0,4.4,3);
70000* PLNT(4.3,4.4,2);
70010* PLNT(4.3,3.9,3);
70020* PLNT(C,0,0,3.9,2);
70030* PLNT(C,0,0,3.4,3);
70040* PLNT(4.3,3.4,2);
70050* PLNT(4.3,2.9,3);
70060* PLNT(C,0,0,2.9,2);
70070* PLNT(C,0,0,2.4,3);
70080* PLNT(4.3,2.4,2);
70090* PLNT(4.3,1.9,3);
70100* PLNT(C,0,0,1.9,2);
70110* PLNT(C,0,0,1.4,3);
70120* PLNT(4.3,1.4,2);
70130* PLNT(4.3,0.9,3);
70140* PLNT(C,0,0,0.9,2);
70150* PLNT(C,0,0,0,0,23);
70160* PLNT(C,0,0,0,0,23);
70180* Z[0]:="TABLE ";
70190* Z[1]:="OF VAL";
70200* Z[2]:="UFS ";
70210* SYMBIL(C,0,8,0,C,28,7,0,0,18);
70220* Z[0]:="DATA F";
70230* Z[1]:="LEMENT";
70240* Z[2]:="-----";
70250* Z[3]:="-----";
70260* SYMBIL(C,0,7,0,C,14,7,0,0,18);
70270* WHERE(H,D,FACT);
70280* Z[0]:=" VALUE";
70290* Z[1]:=" USED ";
70300* Z[2]:=" ";
70310* Z[3]:=" ";
70320* SYMBIL(CH+0,1,0,C,14,7,0,0,18);

```

```

70330* WHERE(ALP, RFT, 2);
70340* PLNT(CO, 0, 8, 0, 3);
70350* PLNT(ALP, RFT, 3);
70360* PLNT(CH, 8, 0, 3);
70370* PLNT(CH, 0, 0, 2);
70380* Z{0}:= "PREAST";
70390* Z{1}:= "FXAM";
70400* SYMBUL(CO, 0, 6, 5, 0, 14, 7, 0, 0, 18);
70410* Z{0}:= "PLVITC";
70420* SYMBUL(CO, 0, 6, 0, 0, 14, 7, 0, 0, 18);
70430* Z{0}:= "URINAL";
70440* Z{1}:= "YSIS";
70450* SYMBUL(CO, 0, 5, 5, 0, 14, 7, 0, 0, 18);
70460* Z{0}:= "STCKIF";
70470* Z{1}:= "CELL";
70480* Z{2}:= "ANEMIA";
70490* Z{3}:= "TEST";
70500* SYMBUL(CO, 0, 5, 0, 0, 14, 7, 0, 0, 18);
70510* Z{0}:= "STERIL";
70520* Z{1}:= "IZATI";
70530* Z{2}:= "A";
70540* Z{3}:= " ";
70550* SYMBUL(CO, 0, 4, 5, 0, 14, 7, 0, 0, 18);
70560* Z{0}:= "INFERT";
70570* Z{1}:= "ILITY";
70580* Z{2}:= " ";
70590* SYMBUL(CO, 0, 4, 0, 0, 14, 7, 0, 0, 18);
70600* Z{0}:= "PREGNA";
70610* Z{1}:= "NCY TE";
70620* Z{2}:= "ST";
70630* SYMBUL(CO, 0, 3, 5, 0, 14, 7, 0, 0, 18);
70640* Z{0}:= "BIOND";
70650* Z{1}:= "TEST";
70660* Z{2}:= " ";
70670* SYMBUL(CO, 0, 3, 0, 0, 14, 7, 0, 0, 18);
70672* Z{0}:= "OTHER";
70674* SYMBUL(CO, 0, 2, 5, 0, 14, 7, 0, 0, 18);
70680* NUMRFR(CH+0, 4, 6, 5, 0, 14, 7, 0, 0, 2);
70680* NUMRFR(CH+0, 4, 5, 5, 0, 14, 7, 0, 0, 2);
70700* NUMRFR(CH+0, 4, 5, 5, 0, 14, 7, 0, 0, 2);
70710* NUMRFR(CH+0, 4, 5, 5, 0, 14, 7, 0, 0, 2);
70720* NUMRFR(CH+0, 4, 4, 5, 0, 14, 7, 0, 0, 2);
70730* NUMRFR(CH+0, 4, 4, 5, 0, 14, 7, 0, 0, 2);
70740* NUMRFR(CH+0, 4, 3, 5, 0, 14, 7, 0, 0, 2);
70750* NUMRFR(CH+0, 4, 3, 5, 0, 14, 7, 0, 0, 2);
70755* NUMRFR(CH+0, 4, 2, 5, 0, 14, 7, 0, 0, 2);
70760* PLNT(CO, 0, 0, 3);
70770* PLNT(CO, 0, 8, 5, 2);
70780* PLNT(4, 3, 8, 5, 2);
70790* PLNT(4, 3, 0, 0, 2);
70800* PLNT(CO, 0, 0, 2);
70810* PLNT(CO, 0, 7, 9, 3);
70820* PLNT(4, 3, 7, 9, 2);
70830* PLNT(4, 3, 6, 9, 3);
70840* PLNT(CO, 0, 6, 9, 2);
70850* PLNT(CO, 0, 6, 4, 3);
70860* PLNT(4, 3, 6, 4, 2);
70870* PLNT(4, 3, 5, 9, 3);
70880* PLNT(CO, 0, 5, 9, 2);
70890* PLNT(CO, 0, 5, 4, 3);
70900* PLNT(4, 3, 5, 4, 2);
70910* PLNT(4, 3, 4, 9, 3);
70920* PLNT(CO, 0, 4, 9, 2);
70930* PLNT(CO, 0, 4, 4, 3);
70940* PLNT(4, 3, 4, 4, 2);
70950* PLNT(4, 3, 3, 9, 3);
70960* PLNT(CO, 0, 3, 9, 2);
70970* PLNT(CO, 0, 3, 4, 3);
70980* PLNT(4, 3, 3, 4, 2);
70990* PLNT(4, 3, 2, 9, 3);
71000* PLNT(CO, 0, 2, 9, 2);
71010* PLNT(CO, 0, 2, 4, 3);
71020* PLNT(4, 3, 2, 4, 2);
71030* PLNT(4, 3, 1, 9, 3);
71040* PLNT(CO, 0, 1, 9, 2);
71050* PLNT(CO, 0, 1, 4, 3);
71060* PLNT(4, 3, 1, 4, 2);
71070* PLNT(4, 3, 0, 9, 3);
71080* PLNT(CO, 0, 0, 9, 2);
71090* PLNT(CO, 0, 0, 0, 2);
71100* PLNTS(CO, 0, 0, 0, 9, 0);
74400* END;
74500* GO TO PROCDEF3;

```

```

74600* RESTART3:WRITE(SS,RE3);
74601* FOR F:=0 STEP 1 UNTIL 5 DO SPACE(REFSTART,1)[CONSTAR3];
74602* CONSTAR3:
74700* PROCFED3:WRITE(REFSTART,RF5);
74800* *****
74900* *****
75000* *****
75100* BEGIN
75300* FILE OUT LYDE REWRITE (1,10);
75400* ARRAY Z[0:15];
75500* PEAL ARRAY W[0:13],J[0:13],M[0:13],I[0:13];
75600* PEAL FIR,DEL,FIF2,DEL2,FTR3,DEL3;
75700* PEAL H,D,FACT,AIF,RET;
75800* INTEGER K,JA;
75900* LABEL REFEAD,GOEN,KEAD;
76000* PEAL X;
76100* FORMAT FM1(F4.2);
76110* FORMAT FM2("ROUTINE BAR2");
76200* FORMAT FM3(4A6);
76250* FORMAT FM4("PERIOD 1=",F4.2,X2,"PERIOD 2=",F4.2,X2,"PERIOD 3=",F4.2);
76300* FORMAT FM5("ERRR...SUM OF VALUES GREATER THAN 10.0...PLEASE FIX");
76400* *****
76500* *****
76600* *****
76700* *****
76800* *****
76900* *****
77000* *****
77100* *****
77200* *****
77300* *****
77400* *****
77500* *****
77600* *****
77700* *****
77800* *****
77900* *****
78000* *****
78100* *****
78200* *****
78300* *****
78400* *****
78500* *****
78600* *****
78700* *****
78800* *****
78900* *****
79000* *****
79100* *****
79200* *****
79300* *****
79400* *****
79500* *****
79600* *****
79700* *****
79800* *****
79900* *****
80000* *****
80100* *****
80200* *****
80300* *****
80400* *****
80500* *****
80600* *****
80700* *****
80800* *****
80900* *****
81000* *****
81100* *****
81200* *****
81300* *****
81400* *****
81500* *****
81600* *****
81700* *****
81800* *****
81900* *****
82000* *****
82100* *****
82200* *****
82300* *****
82400* *****
82500* *****
82600* *****
82700* *****
82800* *****
82900* *****
83000* *****
83100* *****
83200* *****
83300* *****
83400* *****
83500* *****
83600* *****
83700* *****
83800* *****
83900* *****
84000* *****
84100* *****
84200* *****

```

```
84300* Z[7]:="CHNOLD";
84400* Z[8]:="CY ";
84500* SYMBUL(0.0,0.5,0.07,7,0.0,54);
84600* *****
84700* HERE WE MOVE THE X ORIGIN OVER 12 INCHES AND READ EACH PERIODS
84800* DATA INTO THE CORRESPONDING ARRAY. IT SHOULD BE NOTED THAT EACH ARRAY
84900* CONTAINS DATA FOR ALL EIGHT STATES BUT ONLY FOR ONE TIME PERIOD.
85000* ARRAY "I" CONTAINS DATA FOR PERIOD ONE; ARRAY "J" CONTAINS DATA FOR
85100* PERIOD TWO AND ARRAY "M" CONTAINS DATA FOR PERIOD THREE.
85200* *****
85300* PLT(12.0,0.0,23);
85400* FOR K:=0 STEP 1 UNTIL 7 DO BEGIN
85500* REPEAT:
85600* READ(CALZ,FM1,I[K]) [G00N];
85700* READ(CALZ,FM1,J[K]) [G00N];
85800* READ(CALZ,FM1,M[K]) [G00N];
85900* WRITE(CALZ,FM4,I[K],J[K],M[K]);
86000* IF I[K]+J[K]+M[K] GTR 10.0 THEN WRITE(CALZ,FM5);
86100* IF I[K]+J[K]+M[K] GTR 10.0 THEN GO TO HALT;
86200* END;
86300* GO TO KEYS;
86400* *****
86500* HERE WE SET UP THE LOOP THAT PRODUCES THE ACTUAL BARS. NOTE HOW THE
86600* BARS ARE STACKED ON TOP OF ONE ANOTHER (SECOND PARAMETER) AND HOW
86700* THE HATCHING CODES DIFFER FOR EACH BAR (SEVENTH PARAMETER). PERIOD
86800* ONE IS HATCHED FROM UPWARD FROM LEFT TO RIGHT; PERIOD TWO IS NOT HATCHED
86900* AND PERIOD THREE IS HATCHED UPWARD FROM RIGHT TO LEFT. THIS WAY
87000* ALL BARS ARE DISTINCT AND EASY TO IDENTIFY.
87100* *****
87200* KEYS:
87300* FOR K:=0 STEP 1 UNTIL 7 DO BEGIN
87400* BAR(K,I[K],1.0,0.0,I[K],1.0,I[K],2,6);%<-----%BAR "I" PRODUCED
87500* BAR(K,J[K]+1.0,0.0,J[K],1.0,J[K],1,0);%<-----%BAR "J" PRODUCED
87600* BAR(K,M[K]+I[K]+1.0,0.0,M[K],1.0,M[K],3,6);%<-----%BAR "M" PRODUCED
87700* END;%
87800* *****
87900* NOW EACH BAR IS PROPERLY LABELED WITH EACH STATE NAME. LABELS ARE
88000* POSITIONED BELOW EACH BAR.
88100* *****
88200* Z[0]:="ALABAMA";
88300* Z[1]:="A ";
88400* SYMBUL(0.0,0.5,0.07,7,0.0,12);
88500* Z[0]:="FLORIDA";
88600* Z[1]:="A ";
88700* SYMBUL(1.0,0.5,0.07,7,0.0,12);
88800* Z[0]:="GEORGIA";
88900* Z[1]:="A ";
89000* SYMBUL(2.0,0.5,0.07,7,0.0,12);
89100* Z[0]:="KENTUCKY";
89200* Z[1]:="KY ";
89300* SYMBUL(3.0,0.5,0.07,7,0.0,12);
89400* Z[0]:="MISSISSIPPI";
89500* Z[1]:="MISSISSIPPI ";
89600* SYMBUL(4.0,0.5,0.07,7,0.0,12);
89700* Z[0]:="N. CAROLINA";
89800* Z[1]:="N. CAROLINA ";
89900* SYMBUL(5.0,0.5,0.07,7,0.0,12);
90000* Z[0]:="S. CAROLINA";
90100* Z[1]:="S. CAROLINA ";
90200* SYMBUL(6.0,0.5,0.07,7,0.0,12);
90300* Z[0]:="TENNESSEE";
90400* Z[1]:="TN ";
90500* SYMBUL(7.0,0.5,0.07,7,0.0,12);
90600* *****
90700* HERE WE BUILD AN AXIS AND LABEL IT; MOVE THE X ORIGIN 12 INCHES; AND
90800* BUILD A TABLE OF VALUES IN CHART FORM.
90900* *****
91000* READ(CALZ,FM3,FOE JA:=0 STEP 1 UNTIL 3 DO Z[JA]);
91100* AXIS(0.0,1.0,Z,24,9.0,90.0,0.0,1.0);
91200* PLT(12.0,0.0,23);
91300* Z[0]:="TABLE ";
91400* Z[1]:="OF VALUES ";
91500* Z[2]:="IN CHART FORM ";
91600* SYMBUL(0.0,8.0,0.28,7,0.0,18);
91700* Z[0]:="STATE ";
91800* Z[1]:="-----";
91900* SYMBUL(0.0,7.5,0.14,7,0.0,12);
92000* WHERE(H,D,FACT);
92100* Z[0]:="PERIOD ";
92200* Z[1]:="-----";
92300* Z[2]:="AXIS ";
92400* SYMBUL(H+0.4,7.5,0.14,7,0.0,18);
```

```

92500* WHEPP(ALP,RFT,2);
92600* Z[0]=" A ";
92700* SYMBUL(1.8,7.0,(.14,7,0.0,6));
92800* Z[0]=" B ";
92900* SYMBUL(2.7,7.0,(.14,7,0.0,6));
93000* Z[0]=" C ";
93100* SYMBUL(3.675,7.0,(.14,7,0.0,6));
93200* PLNT(0.0,7.40,3);
93300* PLNT(4.5,7.40,2);
93400* PLNT(2.6,7.40,3);
93500* PLNT(2.6,0.0,2);
93600* PLNT(3.5,7.40,3);
93700* PLNT(3.5,0.0,2);
93800* PLNT(ALP,RFT,3);
93900* PLNT(CH,R,0,3);
94000* PLNT(CH,0.0,2);
94100* Z[0]="ALARM";
94200* Z[1]="A ";
94300* SYMBUL(0.0,6.5,(.14,7,0.0,12));
94400* Z[0]="FLORIDA";
94500* Z[1]="A ";
94600* SYMBUL(0.0,6.0,(.14,7,0.0,12));
94700* Z[0]="GEORGIA";
94800* Z[1]="A ";
94900* SYMBUL(0.0,5.5,(.14,7,0.0,12));
95000* Z[0]="KENTUCKY";
95100* Z[1]="KY ";
95200* SYMBUL(0.0,5.0,(.14,7,0.0,12));
95300* Z[0]="MISSISSIPPI";
95400* Z[1]="SIPPI ";
95500* SYMBUL(0.0,4.5,(.14,7,0.0,12));
95600* Z[0]="M. CAROLINA";
95700* Z[1]="LINA ";
95800* SYMBUL(0.0,4.0,(.14,7,0.0,12));
95900* Z[0]="S. CAROLINA";
96000* Z[1]="LINA ";
96100* SYMBUL(0.0,3.5,(.14,7,0.0,12));
96200* Z[0]="TENNESSEE";
96300* Z[1]="SF ";
96400* SYMBUL(0.0,3.0,(.14,7,0.0,12));
96500* NUMBER(CH+1.125,6.5,(.14,J[0],0.0,2));
96600* NUMBER(CH+1.125,6.0,(.14,J[1],0.0,2));
96700* NUMBER(CH+1.125,5.5,(.14,J[2],0.0,2));
96800* NUMBER(CH+1.125,5.0,(.14,J[3],0.0,2));
96900* NUMBER(CH+1.125,4.5,(.14,J[4],0.0,2));
97000* NUMBER(CH+1.125,4.0,(.14,J[5],0.0,2));
97100* NUMBER(CH+1.125,3.5,(.14,J[6],0.0,2));
97200* NUMBER(CH+1.125,3.0,(.14,J[7],0.0,2));
97300* NUMBER(CH+0.4,6.5,(.14,I[0],0.0,2));
97400* NUMBER(CH+0.4,6.0,(.14,I[1],0.0,2));
97500* NUMBER(CH+0.4,5.5,(.14,I[2],0.0,2));
97600* NUMBER(CH+0.4,5.0,(.14,I[3],0.0,2));
97700* NUMBER(CH+0.4,4.5,(.14,I[4],0.0,2));
97800* NUMBER(CH+0.4,4.0,(.14,I[5],0.0,2));
97900* NUMBER(CH+0.4,3.5,(.14,I[6],0.0,2));
98000* NUMBER(CH+0.4,3.0,(.14,I[7],0.0,2));
98100* NUMBER(CH+2.0,6.5,(.14,M[0],0.0,2));
98200* NUMBER(CH+2.0,6.0,(.14,M[1],0.0,2));
98300* NUMBER(CH+2.0,5.5,(.14,M[2],0.0,2));
98400* NUMBER(CH+2.0,5.0,(.14,M[3],0.0,2));
98500* NUMBER(CH+2.0,4.5,(.14,M[4],0.0,2));
98600* NUMBER(CH+2.0,4.0,(.14,M[5],0.0,2));
98700* NUMBER(CH+2.0,3.5,(.14,M[6],0.0,2));
98800* NUMBER(CH+2.0,3.0,(.14,M[7],0.0,2));
98900* PLNT(0.0,0.0,3);
99000* PLNT(0.0,8.5,2);
99100* PLNT(4.5,8.5,2);
99200* PLNT(4.5,0.0,2);
99300* PLNT(0.0,0.0,2);
99400* PLNT(0.0,7.90,3);
99500* PLNT(4.5,7.90,2);
99600* PLNT(4.5,6.90,3);
99700* PLNT(0.0,6.40,3);
99800* PLNT(4.5,6.40,2);
100000* PLNT(4.5,5.90,3);
100100* PLNT(0.0,5.90,2);
100200* PLNT(0.0,5.40,3);
100300* PLNT(4.5,5.40,2);
100400* PLNT(4.5,4.90,3);
100500* PLNT(0.0,4.90,2);
100600* PLNT(0.0,4.40,3);
100700* PLNT(4.5,4.40,2);

```

```

100800* PLOT(4.5,3.90,3);
100900* PLOT(0.0,3.90,2);
101000* PLOT(0.0,3.40,3);
101100* PLOT(4.5,3.40,2);
101200* PLOT(4.5,2.90,3);
101300* PLOT(0.0,2.90,2);
101400* PLOT(10.0,0.0,23);
101500* PLOTS(0.0,0.0,999);
101600* END;
101700* GO TO PROCFFD4;
101800* RESTRT4:WRITE(SS,PF4);
101801* FOR F:=0 STEP 1 UNTIL 5 DO SPACE(RESTART,1)(CONSTAR4);
101802* CONSTAR4;
101900* PROCFFD4:WRITE(RESTART,RF5);
102000* *****
102100* ***** ROUTINE PTE *****
102200* *****
102300* BEGIN
102400* FILE OUT LZDF READTE (1,10);
102600* ARRAY HEAD(0:7);
102700* ARRAY ZIC(6);
102800* ARRAY ZFIO:18,0:41,PERZ(0:13);
102900* FORMAT FM1("ROUTINE PIE");
103000* FORMAT FM15("I2");
103100* FORMAT FM3("FIR=",F6.3,X2,"DEL=",F6.3,X2,"FIR2=",F6.3,X2,"DEL2=",F6.3);
103200* FORMAT FM4("ENTER PERCENTAGE");
103300* FORMAT FM5("ENTER HEADING FOR THIS VALUE");
103400* FORMAT FM6(F5.2);
103500* FORMAT FM7(7(A6));
103600* FORMAT FM8("TOO MANY VALUES..LIMIT IS 12;");
103700* LABEL READN,COON,KEGN;
103800* REAL ARRAY W(0:361),J(0:361),M(0:131),J(0:13);
103900* REAL FIR,DEL,FIR2,DEL2,FIR3,DEL3;
104000* REAL X,K,PER,HOLD;
104100* REAL H,D,FACT,ALF,BET;
104200* INTFCER N;
104300* *****
104400* ***** PLT ROUTINE "PTE" DEVELOPED BY DANIEL RAY CRIDER FOR
104500* ***** USE BY THE HEALTH EDUCATION AND WELFARE REGION IV DATA PROCESSING
104600* ***** SYSTEM JULY, 1975. THE PURPOSE OF THIS ROUTINE IS TO PRODUCE
104700* ***** PERCENTAGE GRAPHS (PIE GRAPHS) THAT WILL EASILY ILLUSTRATE THE
104800* ***** VARYING MAGNITUDES OF THE PERCENTAGES TAKEN AS VARIABLE. THIS
104900* ***** ROUTINE WILL GRAPH UP TO TWELVE VARIABLES WITH PROPER IDENTIFICATION
105000* ***** AND A TABLE OF VALUES FOR ALL VARIABLES USED. INPUT IS FROM A DISK FILE
105100* ***** WHO'S INTERNAL VALUE IS "WALK" AND WHO'S EXTERNAL ID IS "REAM03".
105200* ***** THIS ROUTINE IS THE FOURTH SUBSECTION OF A FOUR ROUTINE PLOT PACKAGE
105300* ***** DEVELOPED AT THE GEORGIA INSTITUTE OF TECHNOLOGY UNDER THE SCHOOL
105400* ***** INFORMATION AND COMPUTER SCIENCE. THIS ROUTINE WAS DESIGNED ON A
105500* ***** BURROUGHS B5700 AND UTILIZES THE BASIC AND ADVANCED
105600* ***** ALGOL PLOT PACKAGE DEVELOPED BY THE CALIFORNIA COMPUTER PRODUCTS
105700* ***** COMPANY. THE OUTPUT OF THIS ROUTINE IS IN THE FORM OF A DISK FILE
105800* ***** LABELED "CALCOMP" WHICH CONTAINS INSTRUCTIONS FOR A CALCOMP PLOTTER
105900* ***** (ALSO DEVELOPED BY THE CALIFORNIA COMPUTER PRODUCTS COMPANY). THIS
106000* ***** FILE MUST BE BUMPED TO TAPE AND THEN THE TAPE MUST BE MOUNTED ON THE
106100* ***** CALCOMP PLOTTER TO PRODUCE THE DESIRED PLOTS.
106200* *****
106300* PLOTS(50.0,11.0,0);
106400* *****
106500* IN THE FIRST SECTION OF THIS ROUTINE A FACTOR OF 0.5 IS DECLARED
106600* SO THAT THE CIRCLE PRODUCED JUST AFTER IT WILL BE SMALL ENOUGH TO
106700* FIT IN THE PAGE. NOTE HOW THE CIRCLE IS PRODUCED BY CONNECTING ALL
106800* 360 POINTS DETERMINED BY THE SIN AND COSINE FUNCTIONS. THE SCALEFA
106900* FUNCTIONS MUST BE USED ALONG WITH THE LINEA FUNCTION TO PRODUCE THE
107000* GRAPH. AFTER THE CIRCLE IS RUTLY THE FACTOR IS RETURNED TO 1.0.
107100* *****
107120* WRITE(LZDF,FM1);
107200* FACTOR(0.5);
107300* FOR K:=0 STEP 1 UNTIL 359 DO BEGIN
107400* W(K):=SIN(K/52.2727273)+1;
107500* J(K):=COS(K/52.2727273)+1;
107600* END;
107700* SCALEFA(W,10.0,360,1,FIR,DEL);
107800* SCALEFA(J,10.0,360,1,FIR2,DEL2);
107900* LINEA(J,W,360,1,0,0,FIR2,DEL2,FIR,DEL);
108000* WRITE(LZDF,FM3,FIR,DEL,FIR2,DEL2);
108100* FACTOR(1.0);
108200* *****
108300* ***** HERE PLT IDENTIFICATION IS CREATED AND PERCENTAGE VALUES ARE READ
108400* ***** IN. NOTE THAT A "PAR" OF EXTREMELY SMALL WIDTH CREATES THE ILLUSION
108500* ***** OF THE "PIE" PLT WHEN IT IS ROTATED TO THE CORRECT DEGREE
108600* ***** (THE ONE CORRESPONDING THE PERCENTAGE). A LABEL IS THEN PLACED ON
108700* ***** TOP OF EACH PAR AND ROTATED TO THE SAME ANGLE FOR EASY IDENTIFICATION.
108800* ***** NOTE ALSO THE FACT THAT ALL LABELS AND VALUES ARE READ INTO ARRAYS

```



```

109000 *FOR USAGE DURING THE VALUE TABLE CONSTRUCTION. NOTE AGAIN THAT THE
109000 *FACTOR WAS RETURNED TO 0.5 SO THAT ALL "BARS" WOULD FIT THE CIRCLE.
109100 *
109200 * Z[0]:="NEW PR":
109300 * Z[1]:="OBJECT ":
109400 * SYMBOL(0.0,10.0,(.28,Z,0.0,12)):
109600 * Z[0]:=" PERCF":
109700 * Z[1]:="ATAGF ":
109800 * Z[2]:="COMPAR":
109900 * Z[3]:="ISON PR":
110000 * Z[4]:="LPT ":
110100 * SYMBOL(0.0,9.5,(.28,Z,0.0,36));
110200 * FACTOR(0.5);
110300 * READ(CALZ,FM15,N) (GON);
110400 * IF N>12 THEN WRITE(LZDF,FMR) ;
110500 * IF N>12 THEN GO TO HALT;
110600 * HOLD:=0;
110700 * FOR K:=0 STEP 1 UNTIL N-1 DO BEGIN
110800 * READ(CALZ,FM6,PERF);
110900 * PERZ[K]:=PERF;
111000 * HEAD[0]:="----->";
111100 * READ(CALZ,FM7,FOF X:=1 STEP 1 UNTIL 2 DO HEAD[X]);
111200 * FOR Y:=0 STEP 1 UNTIL 1 DO Z[Y]:=HEAD[X+1];
111300 * BAR(5.0,5.0,HOLD*3.6,0.001,5.0,0.0,1.0);
111400 * SYMBOL(5.0,5.0,(.14,HEAD,HOLD*3.2,18));
111500 * HOLD:=HOLD+PERF;
111600 * END;
111700 * GO TO KEGD;
111800 * GONN:GO TO HALT;
111900 *
112000 *
112000 * IN THE LAST SECTION OF THIS ROUTINE THE FACTOR IS RETURNED TO 1.0
112100 * AND THE ORIGIN IS MOVED 6.5 INCHES TO THE RIGHT. AFTER THIS THE
112200 * TABLE OF VALUES IS PRODUCED. NOTE HOW A FACTOR OF 0.4 IS USED SO
112300 * THAT THE TABLE APPEARS THE SAME SIZE AS THE GRAPH. ALSO NOTE THAT
112400 * SINCE ALL LABEL INFORMATION HAS BEEN STORED IN ARRAYS IT IS POSSIBLE
112500 * TO PRODUCE THE TABLE BY MEANS OF A LOOP.
112600 *
112700 *
112800 * KEGD:
112900 * FACTOR(1.0);
113000 * PLNT(6.5,0.0,23);
113100 * FACTOR(0.4);
113200 * Z[0]:="TABLE ";
113300 * Z[1]:="OF VAL ";
113400 * Z[2]:="UES ";
113500 * SYMBOL(0.0,8.0,(.28,Z,0.0,18));
113600 * Z[0]:="MONTH ";
113700 * Z[1]:="-----";
113800 * SYMBOL(0.0,7.0,(.14,Z,0.0,12));
113900 * WHEREF(CH,D,FACT);
114000 * Z[0]:=" VALUE";
114100 * Z[1]:=" USED ";
114200 * SYMBOL(CH+0.4,D,(.14,Z,0.0,12));
114300 * WHEREF(ALP,RET,2);
114400 * PLNT(0.0,8.0,3);
114500 * PLNT(ALP,RET,3);
114600 * PLNT(CH,0.0,3);
114700 * PLNT(CH,0.0,2);
114800 * FOR K:=0.0 STEP (.5 UNTIL (N-1)*.5 DO BEGIN
114900 * FOR X:=0 STEP 1 UNTIL 1 DO Z[X]:=Z[K/0.5,X];
115000 * SYMBOL(0.0,6.5-k,(.14,Z,0.0,12));
115100 * NUMBER(CH+0.4,6.5-k,(.14,PERZ[K/0.5],0.0,2));
115200 * END;
115300 * PLNT(0.0,0.0,3);
115400 * PLNT(0.0,8.5,2);
115500 * PLNT(4.5,8.5,2);
115600 * PLNT(4.5,0.0,2);
115700 * PLNT(0.0,0.0,2);
115800 * PLNT(0.0,7.90,3);
115900 * PLNT(4.5,7.90,2);
116000 * PLNT(4.5,6.90,3);
116100 * PLNT(0.0,6.90,2);
116200 * PLNT(0.0,6.40,3);
116300 * PLNT(4.5,6.40,2);
116400 * PLNT(4.5,5.90,3);
116500 * PLNT(0.0,5.90,2);
116600 * PLNT(0.0,5.40,3);
116700 * PLNT(4.5,5.40,2);
116800 * PLNT(4.5,4.90,3);
116900 * PLNT(0.0,4.90,2);
117000 * PLNT(0.0,4.40,3);
117100 * PLNT(4.5,4.40,2);
117200 * PLNT(4.5,3.90,3);
117300 * PLNT(0.0,3.90,2);

```

```

117300* PLOT(0.0,3.40,3):
117400* PLOT(4.5,3.40,2):
117500* PLOT(4.5,2.90,3):
117600* PLOT(0.0,2.90,2):
117700* PLOT(0.0,2.40,3):
117800* PLOT(4.5,2.40,2):
117900* PLOT(4.5,1.90,3):
118000* PLOT(0.0,1.90,2):
118100* PLOT(0.0,1.40,3):
118200* PLOT(4.5,1.40,2):
118300* PLOT(4.5,0.90,3):
118400* PLOT(0.0,0.90,2):
118500* PLOTS(0.0,0.0,999);
118600* END;
118800* REWIND(RESTART);
118900* WRITE(RESTART,RF10);
119000* *****
119100* THIS CONCLUDES THIS PACKAGE. WRITTEN BY DANIEL RAY CRIDER FOR THE
119200* HEALTH, EDUCATION, AND WELFARE REGION IV DATA PROCESSING SYSTEM UNDER
119300* THE SCHOOL OF INFORMATION AND COMPUTER SCIENCE AT THE GEORGIA INSTITUTE
119400* OF TECHNOLOGY - JULY, 1975.
119500* *****
119600* HALT;
119650* END;
119700* END.

```


7000*33.3
7100*TFST2
7200*33.3
7300*TFST3

*
*
*
*

MAPPING PROGRAM

MAPSY

The program MAPSY is used to produce shaded and outline type maps. The program accesses two separate files in creating the maps, one file contains the data necessary to construct the map, the second file contains the data necessary for shading the map.

For a particular run, the only file which needs to be supplied is the file used for shading, which, under normal operating procedure, will be created by a supporting system, so that the user only needs to be concerned with supplying the program, MAPSY, with a set of interactive commands.

RUNNING MAPSY

Following is a list of the questions which the program will ask. Included along with this is commentary on the types of responses possible and considerations which should be made when making them.

WHAT STATE OR REGION?

The responses to this are:

US, ALA, GA, FLA, KY, SC, NC, TENN, MISS

Only the state abbreviations listed above are correct. If a bad response is typed in, the program will immediately recognize this and re-ask the question.

IS THE MAP TO BE SHADED?

There are three types of maps which can be produced using MAPSY, shaded maps, outline maps, and shaded-outline maps. If either a shaded map or a shaded-outline map is desired, then 'YES' should be typed in, otherwise 'NO' should be typed in. Any other response will cause the program to resubmit the question.

IS THE MAP TO BE OUTLINED?

Everything noted in the previous question also applies here.

WHAT SHADE OUTLINE (DARKEST=9, LIGHTEST=0)?

This question is only asked if the response to the outline question was yes. The possible responses to this are the digits 0 through 9, which correspond to intensities in color, from lightest, which is blank, to darkest, which corresponds to the darkest printable overprint character combination, AVOX. If the response is not within the restricted set, then a message noting the error will occur and the question will be resubmitted.

LABELLING DESIRED?

If any of the various forms of labelling are desired for the map to be produced then the response 'YES' should be typed. If neither YES or NO is typed then the question is resubmitted.

LABEL COUNTY-NAMES?

The county-name labelling consists of a list of the counties, alphabetically by name. This list, in conjunction with either the LABEL-AXIS or LABEL COUNTY-ID option makes it possible to identify the counties that are included in the map by name. This option is also necessary if a COUNTY-NAMES COUNTY-VALUE table is desired.

LABEL AXIS?

This produces an axis which is printed with the map. Any place on the map can be identified by name through use of the coordinate-axis.

LABEL COUNTY-ID?

This produces a label for each county, which is written on the map at the center of that county. The label consists of the county number as defined by the county-name list (see above). Using this option, the location of each county in the map can be seen. There is one disadvantage to this labelling option. Since many counties occupy relatively small areas on the map and since this is especially so when there are a large number of counties, this labelling tends to clutter the map. Therefore, it is suggested that in any actual reports, that shaded maps with only the axis and table labelling be used, corresponding to these in the appendix or what-have-you there could be similar maps with the added features of outline-type (recommended at darkest shade) and the labelling of COUNTY-ID,

along with the other labelling options desired.

LABEL COUNTY-VALUES?

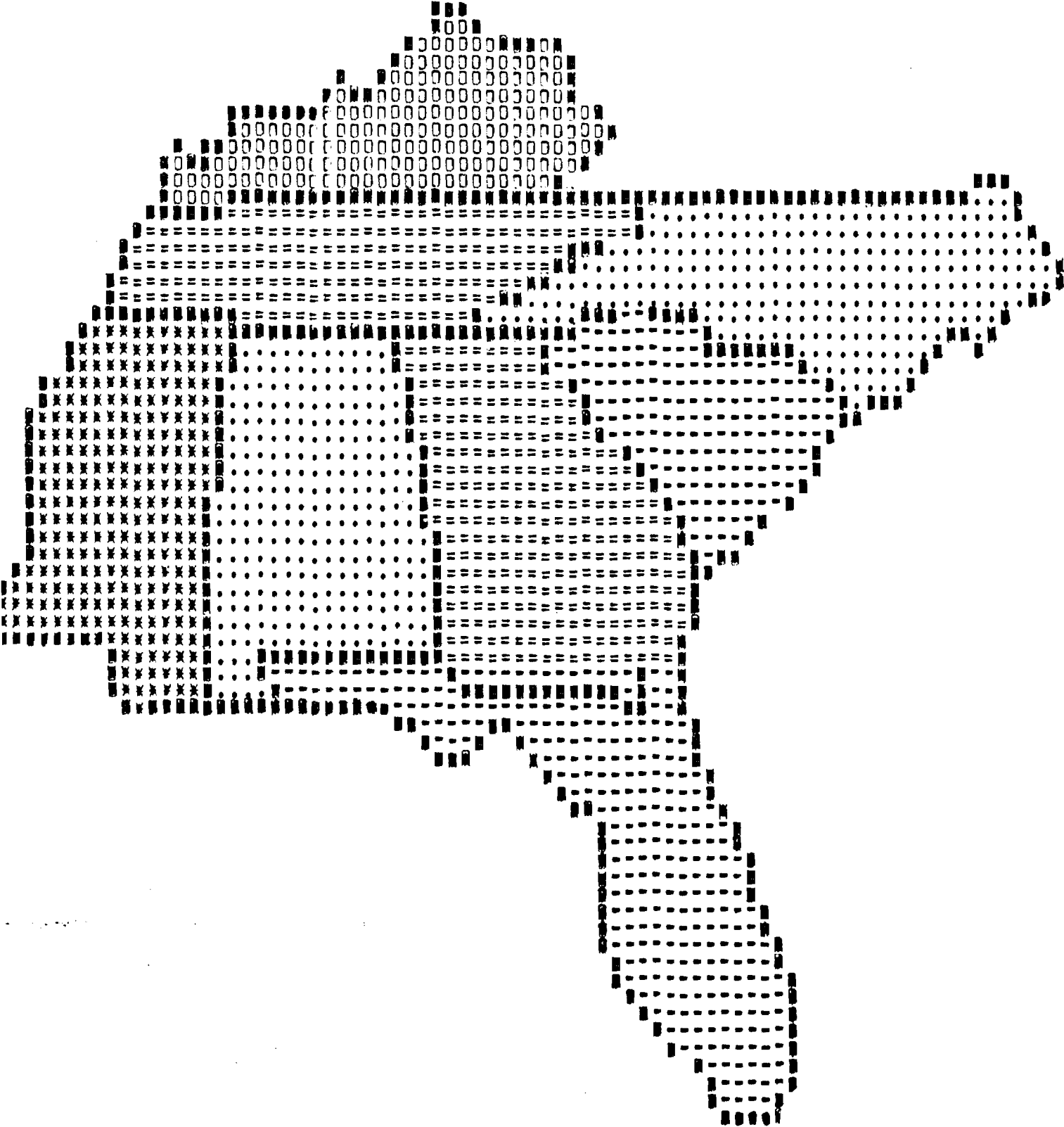
This question only occurs if the option for making a county-name list has been set. County-value labelling causes the value of each county as defined in the supplied data file to be printed next to the county name. The responses are 'YES' and 'NO'.

INTERMEDIATE FILE DESIRED?

This option creates an intermediate representation of the map printed. This intermediate map in no way affects the actual map production or the final printed map. The intermediate map is available as an aid in debugging a particular map-file only, and is only necessary until debugging of a newly created map-file is finished. The advantages of this intermediate file is that it is a direct representation of the map-file. The map-file is created using paper scaled at 10 lines per inch. Since printers print at 8 lines per inch normally, every fifth line is deleted in the actual map, but the intermediate map is not scaled to 8 lines per inch. The intermediate map, when run in combination with the test files included in this system, also gives accurate information in determining if all segments of a particular county are correct and if the boundaries are accurate.

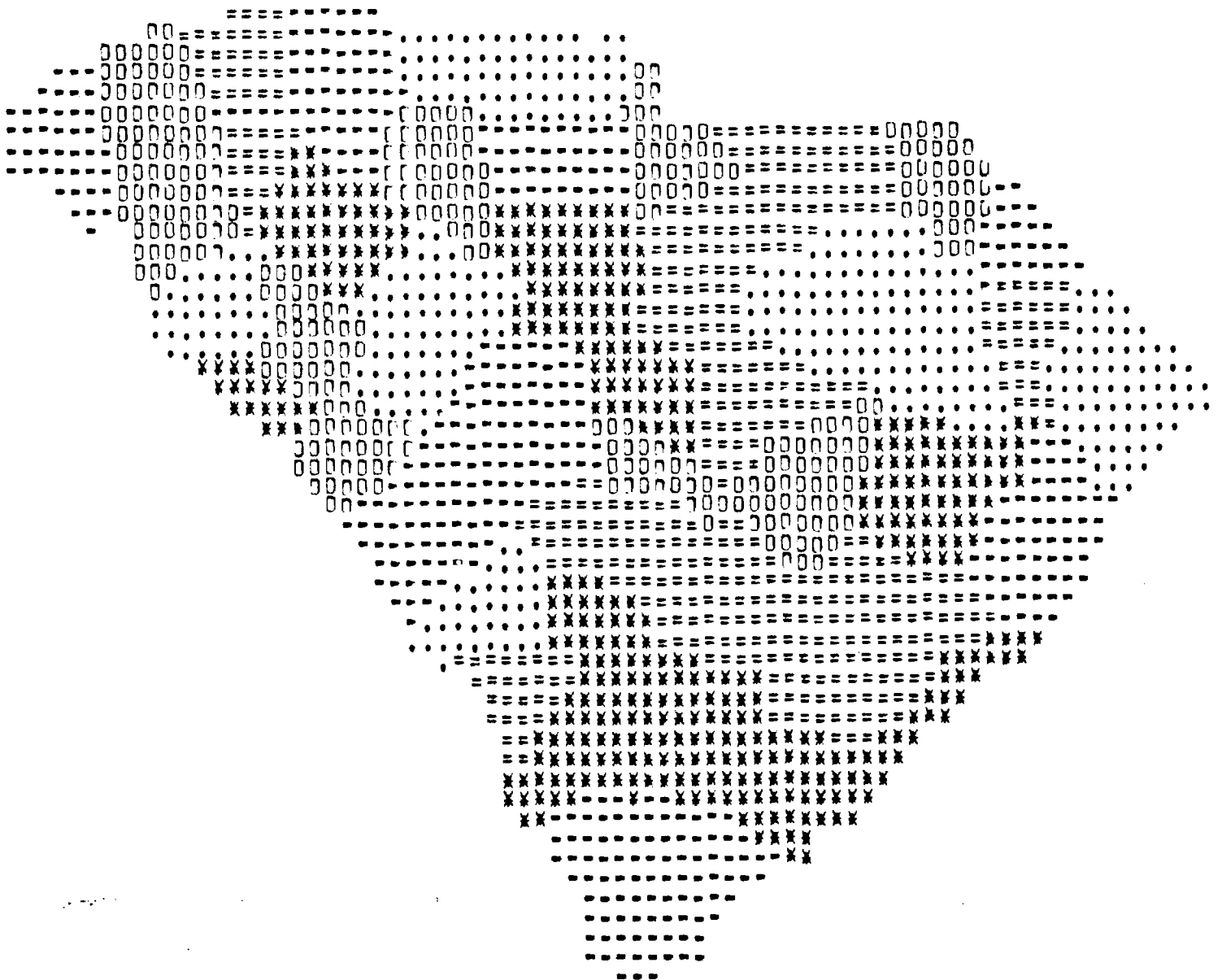
SAMPLE DENSITY MAP SHOWING VARYING PERFORMANCE AMONG
STATES ON SELECTED VARIABLE

(Dummy Data Used)



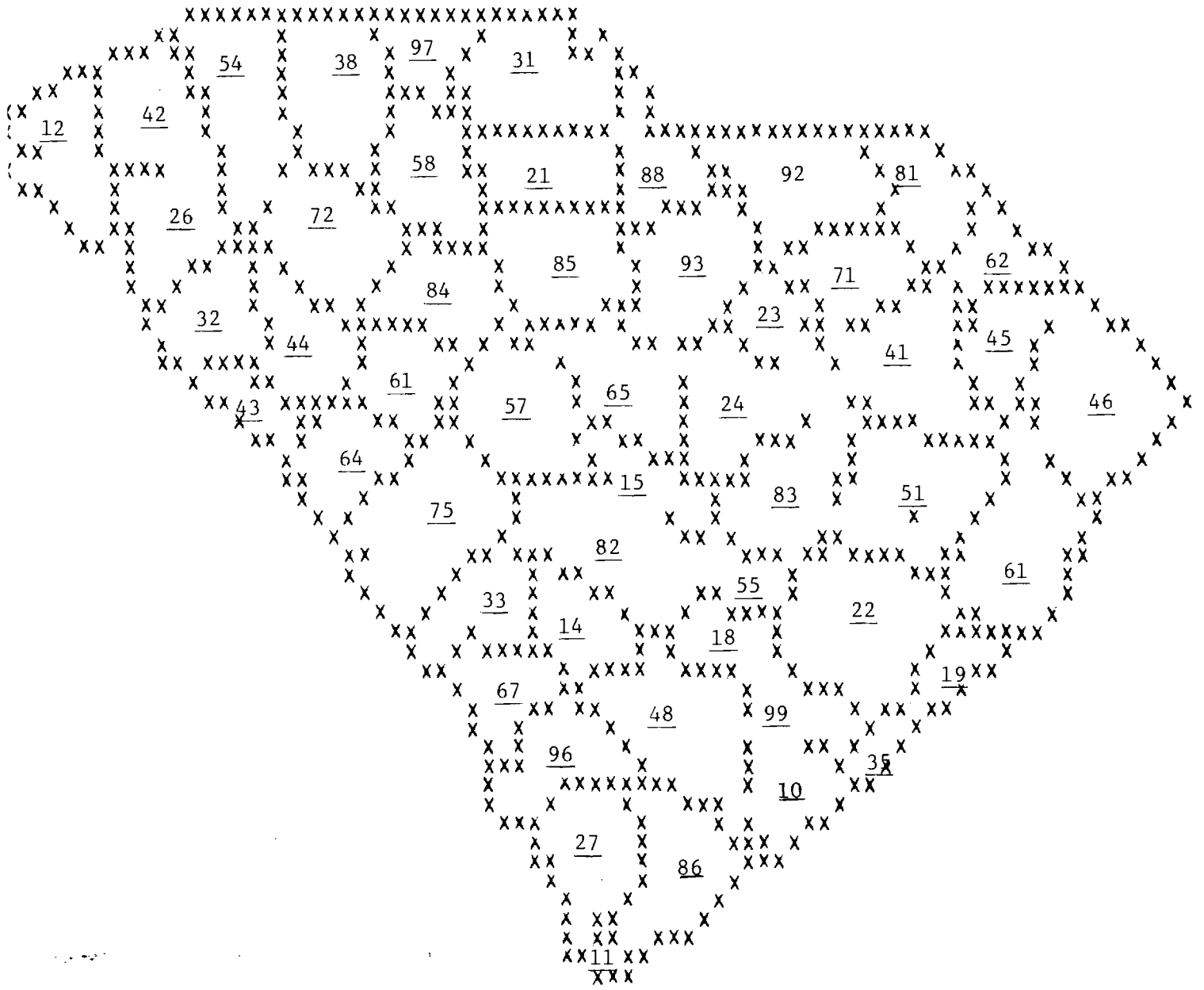
SAMPLE DENSITY MAP SHOWING VARYING PERFORMANCE AMONG
SOUTH CAROLINA COUNTIES ON SELECTED VARIABLE

(Dummy Data Used)



SAMPLE OUTLINE MAP SHOWING COUNTY-LEVEL NUMERICAL
DATA IN SOUTH CAROLINA

(Dummy Data Used)



MAIN SECTION, MAPSY

INITIALIZATION.

PERFORM OPEN-FILES SECTION. 4Ø INITIALIZES FILES AND ESTABLISHES THE TYPE OF MAP DESIRED

OPEN-FILES-RTN. 4Ø OPENS REMOTE FILES

QUESTION-1. 4Ø WILL THE MAP BE A REGIONAL OR STATE MAP?

QUESTION-2. 4Ø WILL THE MAP BE SHADED AND/OR OUTLINED?

QUESTION-3. 4Ø TYPE OF LABELING DESIRED?

QUESTION-4. 4Ø INTERMEDIATE FILE?

END QUESTIONS. 4Ø USE MAP CHOICE TO ACCESS PROPER FILES. OPEN THE REMAINDER OF FILES

PERFORM READ-COUNTY-VALUES. 4Ø READS IN VALID COUNTY NUMBERS AND THEIR ASSOCIATED VALUES.

READ-RTN. 4Ø READS IN THE COUNTY NUMBER AND THE VALUE TO BE REPRESENTED.

COUNTY-INDEX-I-ERROR. 4Ø EXECUTED ONLY FOR AN INVALID COUNTY NUMBER PRINTS ERROR MESSAGE, THEN PROGRAM RESUMES.

READ-COUNTY-EXIT. 4Ø PRINTS TOTAL NUMBER OF COUNTIES READ IN AND STORES THE VALUE.

READ-EXIT. 4Ø RETURN.

PERFORM GET-COUNTY-SHADES. 4Ø ASSIGNS SHADING TO COUNTIES

HOUSE-KEEPING. 4Ø USES FIRST COUNTY-VALUE FOR MINIMUM IN NEXT PROCEDURE

MIN-MAX-RTN. 4Ø DETERMINES INCREMENTS FOR SHADING

STORE-SHADE-RANGES. 4Ø DETERMINES ACTUAL RANGES FOR SHADING

GET-COUNTY-SHADE. 4Ø INITIALIZES FOR SHADE-SEARCH

SHADE-SEARCH. 4Ø STORES PROPER SHADE VALUE FOR EACH COUNTY

COUNTY-SHADE-EXIT. 4Ø RETURN

PHASE I. READS MAP-FILE-DATA PRODUCES INTERMEDIATE FILE FOR OUTLINE OR
SHADED MAP.

PERFORM GET-VALUES-FOR-SEGMENT (SECTION). 4½ OBTAINS A LEFTHAND POINT
(J-VALUE), A RIGHTHAND POINT (K-VALUE),
AND A COUNTY VALUE

GET-VALUES-PTN. CONTROLLING ROUTINE FOR DATA AQU.

PERFORM NEW-VALUE OBTAINS THE NEXT VALUE

PERFORM NEW-VALUE-RTN. 4½ PICKS OFF NEXT VALUE IN RECORD

PERFORM NEW-RECORD. 4½ READS NEW RECORD AND DETERMINES
IF RECORD IS FOR LINE UNDER CONSTRUCTION

PERFORM END-OF-FILE. 4½ TEMPORARY END OF FILE
PERFORMED ONLY IF END OF MAP DATA
9999

PERFORM NEW-VALUE-EXIT. 4½ RETURN

PERFORM NEW-VALUE

PERFORM NEW-VALUE-RTN

PERFORM NEW-RECORD

PERFORM END-OF-FILE

PERFORM NEW-VALUE-EXIT

NO-COUNTY-ID. 4½ NOT A COUNTY NUMBER FOR THIS SEGMENT. VALUE BECOME
K-VALUE

GET-VALUES-EXIT. 4½ DEBUGGING & RE-INITIALIZATION OF COUNTY-VALUE
AND COUNTY SHADE.

IF EOF OF MAP GO TO PHASE-II. FINISHED WITH INPUT OF MAP, MAYBE MORE TO FOLLOW
(STAY TUNED)

PERFORM BUILD-SEGMENT-OF-MAP. ROUTINE WHICH FIRST CHECK VALIDITY OF DATA AND
THERE AFTER CONTROLS A SEGMENT CREATION

BUILD-SEGMENT-RTN. BUILDS A SEGMENT: EITHER SHADE TYPE, OUTLINE, OR
BOUNDRY

IF SHADE-TYPE

PERFORM SHADE-RTN. CONTROL FOR BUILDING SHADED SEGMENT OF MAP.

PERFORM J-K-MODIFICATION. MODIFIES LEFT HANDPOINT (J-VALUE)
AND RIGHTHAND POINT (K-VALUE) FOR INTERNAL
PROGRAMATIC USE.

PERFORM FILL-SEGMENT. IF POSSIBLE WRITES SEGMENT.

PERFORM FILL-SEGMENT-RTN. CHECK FOR RIGHTHAND
POINT, SET LEFTHAND POINT, AND DEBUGGING

PERFORM FILL-SEGMENT-LOOP. FILLS SEGMENT WITH
A CHARACTER 1 BY 1

PERFORM FILL-SEGMENT-EXIT. RETURN

IF OUTLINE-TYPE

PERFORM OUTLINE-RTN. AT FOR BUILDING OUTLINE POINT

BOUNDRY-RTN. MODIFIES LEFT AND RH POINT, RESETS BOUNDRY TYPE VARIABLE

FILL-BOUNDRY-LOOP. CREATE OUTLINE BOUNDRY OR DUBS SHADE (PREVIOUS
LINE) IF NOT OUTLINE TYPE

BOUNDRY-EXIT. RESETS COUNTY VALUE AND COUNTY SHADE

BUILD-SEGMENT-EXIT

IF LINE COMPLETED

PERFORM WRITE-LINE

SECTION

WRITE-LINE-RTN. CHECKS FOR A TEMPORARY EO FILE CHANGES
TO EOF SAVES COPY OF LINE AND THEN WRITES
MAP LINE TO DISK IF REQUESTED, WRITES THE
INTERMEDIATE FILE

WRITE-RTN-EXIT. RETURN

PHASE-II

PERFORM REWIND-MAP-FILE

SECTION

REWIND-RTN. CLEARS FINAL LINE (FINAL-MAPREC) AND MASK
(CLEAR-SCRATCH-LINE)

PERFORM WRITE-MAP-FILE

REWINDS MAPFILE

SECTION

INITIAL-RTN. CLEARS FILE-STATUS, LINE COUNTER, AND
CURRENT LINE

MAP-HEADINGS. WRITE HEADING FOR MAP

WRITE-MAP-RTN. CONTROL RTN FOR LABEL AND MAP PRODUCTION

PERFORM GET-MAP-LINE. READS FROM TEMPFILE AND CONTAINS
LOGIC FOR COMPRESSING LINES

IF OUTLINE-TYPE

PERFORM MERGE-LINES PULLS IN BOUNDRY OR
BOUNDRY SEGMENT FOR LINE BEING OMITED

IF LABELS

PERFORM PROCESS-LABELS

PERFORM GET-LABEL-DATA. DIRECTS INFO TO PROPER
AREA FOR LATTER USE.

PERFORM PROCESS-LABEL. FIGURES LABEL SIZE

PERFORM FILL-IN-LABEL. LOOP FOR FILLING IN
LABEL

PERFORM PROCESS-LABEL-EXIT, RETURN

END-DATA. SETS FILE STATUS (OF LABELS-IN) TO EOF

LABELING-EXIT. RETURN

PERFORM WRITE-MAP-LINE. PRODUCES ONE LINE OF THE FINISHING
PRODUCT

PERFORM BUILD-LINE-LOOP. WRITES A LINE OF
THE MAP OR WRITES OVER FOR PROPER
SHADES

PERFORM LAST-ITERATION. WRITE THE LINE THE
FINAL TIME

CONTINUE-LABELS. CONTINUITY FOR WRITING LABELS WHICH EXTEND
BELOW MAP.

IF LABELS

PERFORM PROCESS-LABELS

PERFORM GET-LABEL-DATA
PERFORM PROCESS-LABEL
PERFORM FILL-IN-LABEL
PERFORM PROCESS-LABEL-EXIT

END-DATA
LABELING-EXIT
WRITE-MAP-EXIT. RETURN

IF SHADE-TYPE

PERFORM WRITE-LEGEND

SECTION

WRITE-LEGEND-RTN. CLEARS POINTER AND WORK AREA
FREQUENCY COUNTER. SUMS COUNTY VALUES BY CATEGORY
LEGEND-TITLE. WRITES "LEGEND"
FULL-LEGEND. CONTROL RTN FOR SHADING USED IN MAP
FILLING. RTN FOR ACTUALLY WRITING IN SHADE
NEXT-ITERATION. WRITES LEGEND SHADE FOUR TIMES
COUNT-SHADES. COUNTS THE NUMBER OF DIFFERENT SHADES USED.
SHADE-LOWER LIMITS. CREATES "MINIMUM" LINE IN LEGEND
LOWLIM-WRITE. WRITE IT
SHADE-UPPERLIMITS. CREATES "MAXIMUM" LINE IN LEGEND
UPLIM-WRITE. WRITE IT
WRITE-FREQUENCY. CREATE & WRITES "FREQUENCY" IN LEGEND

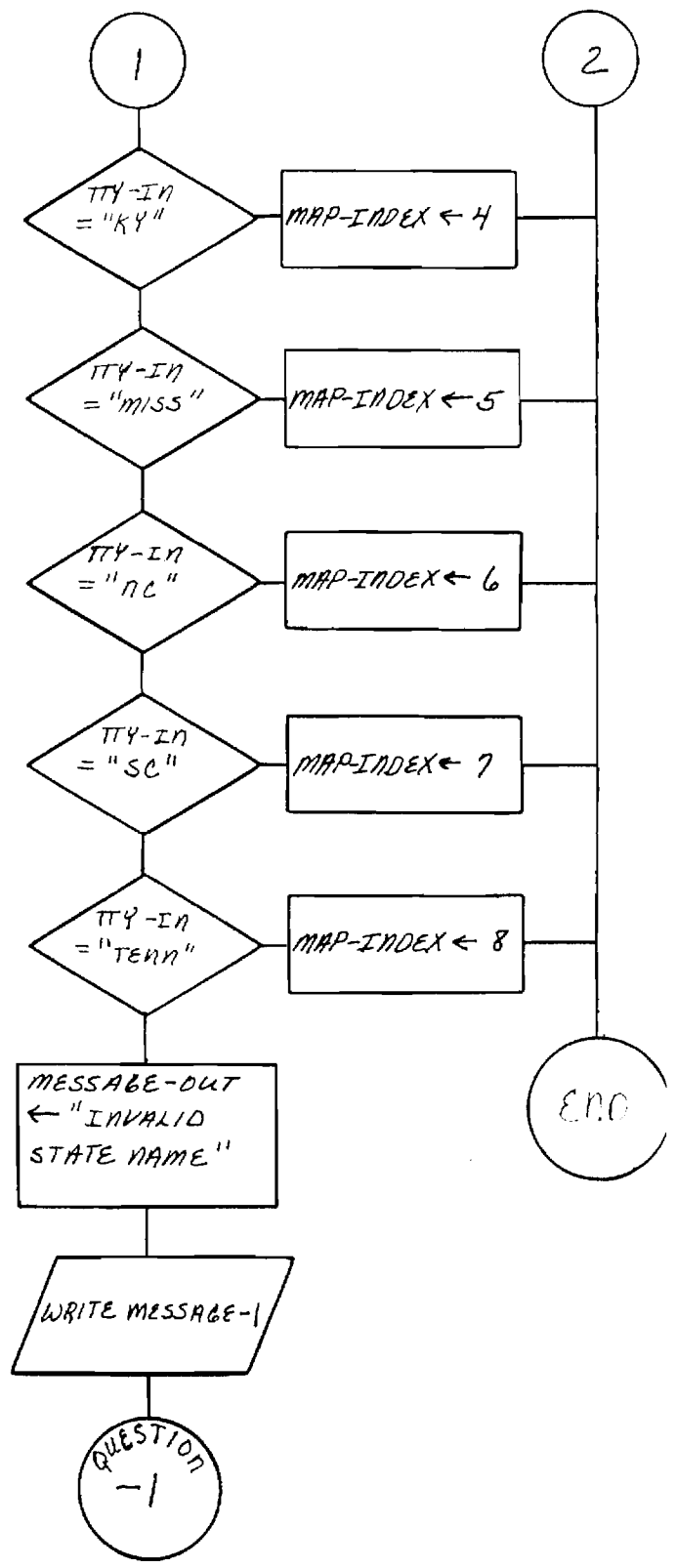
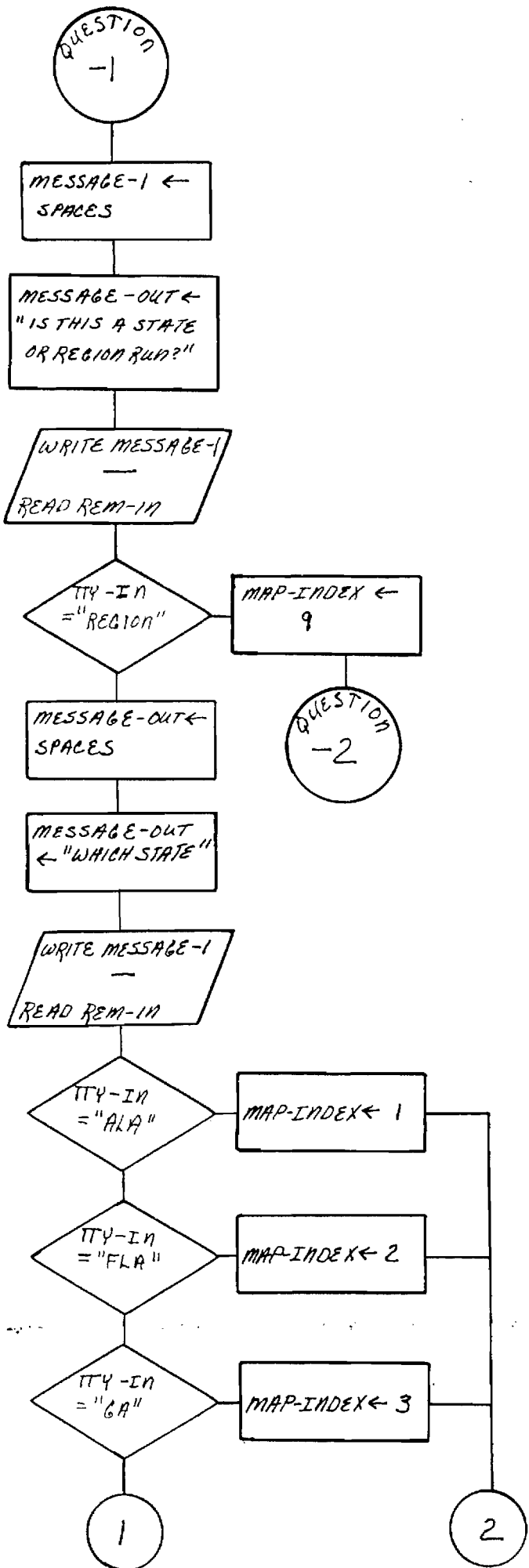
PHASE III WIND-UP

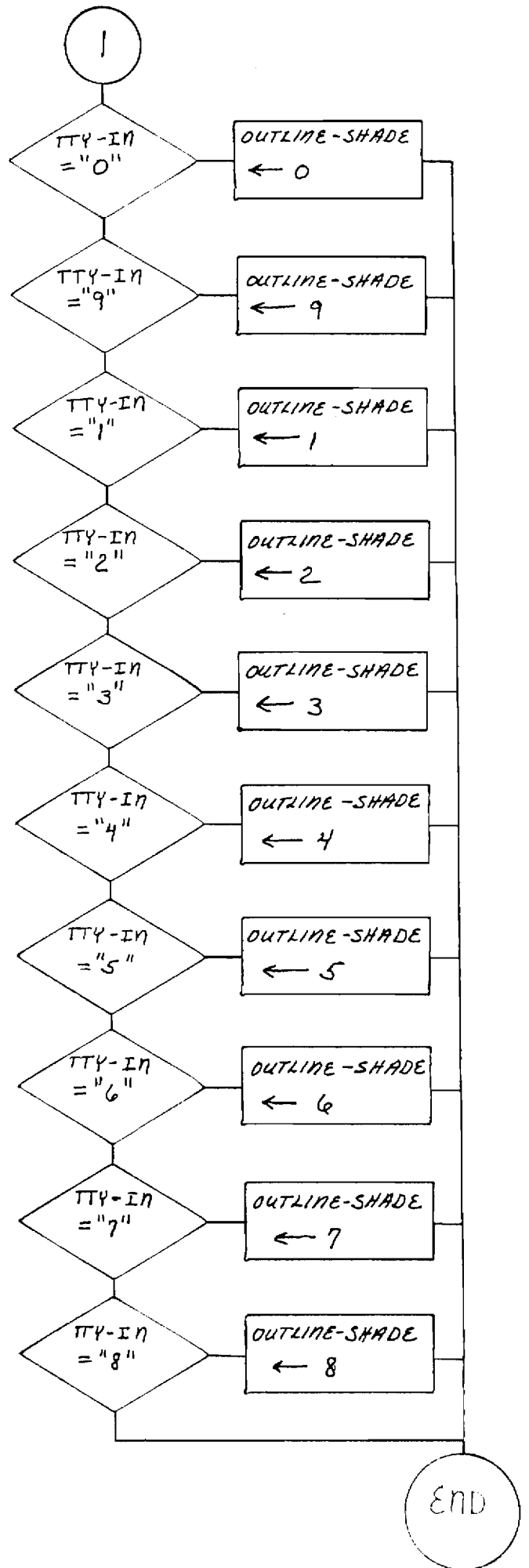
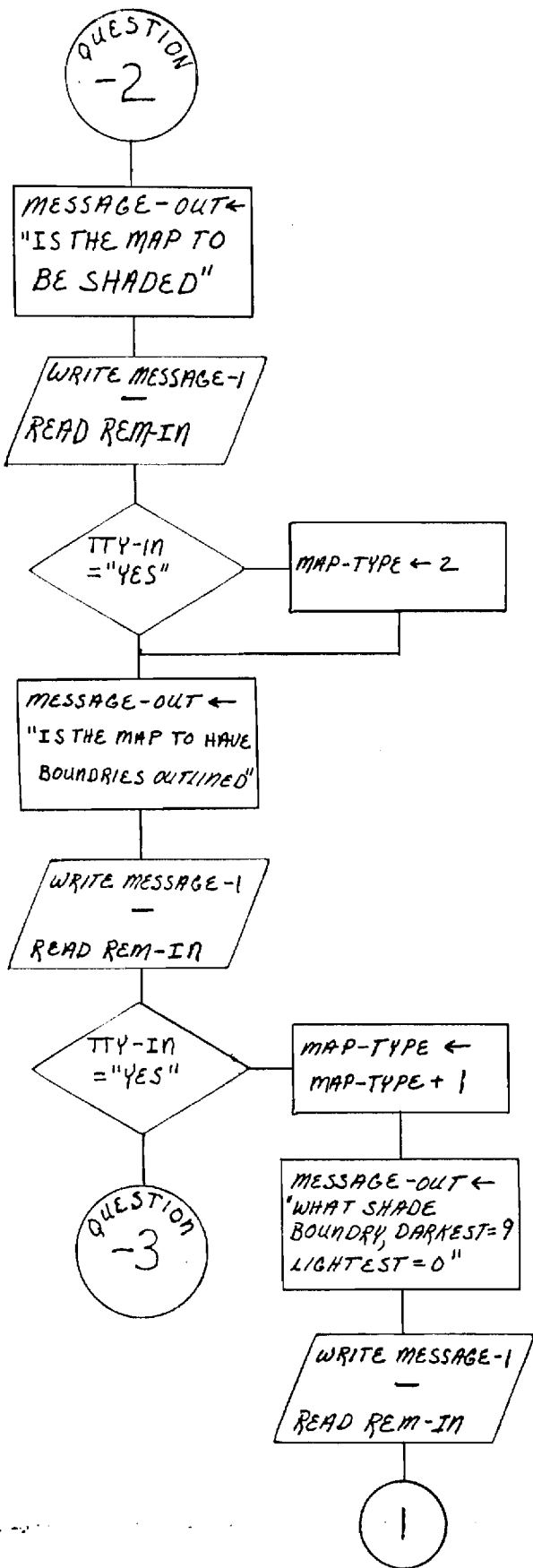
PERFORM CLOSE-FILES

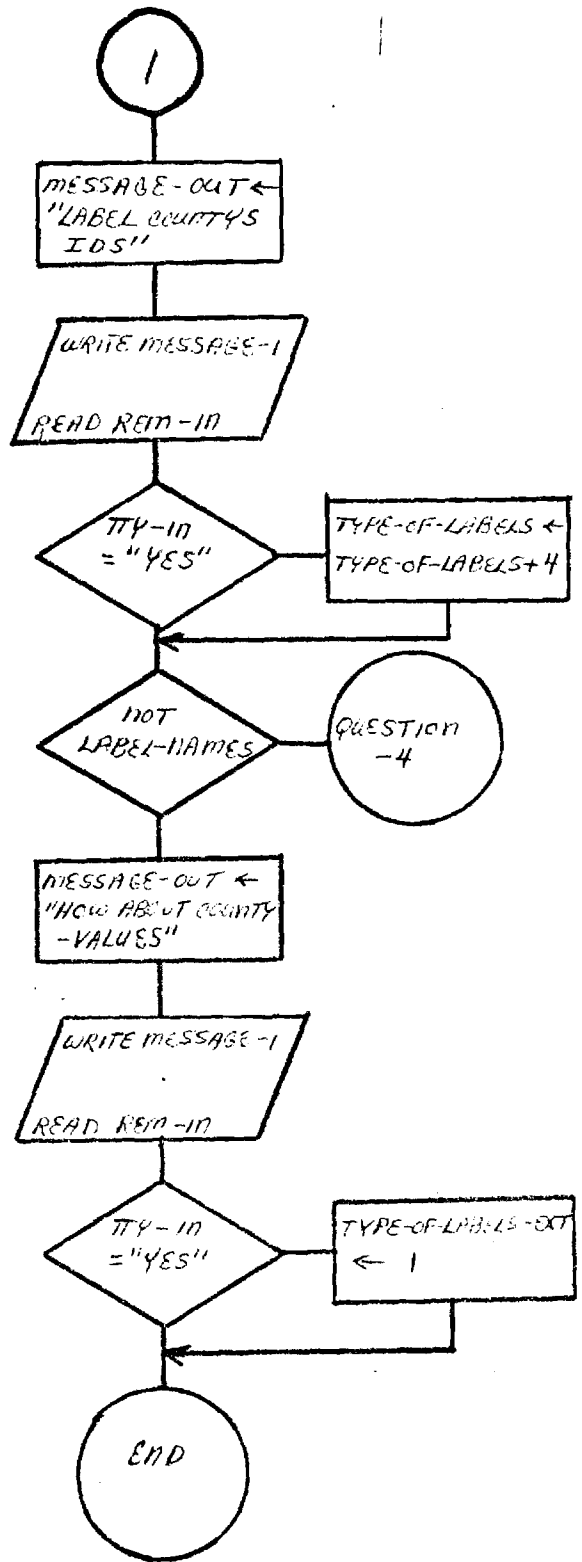
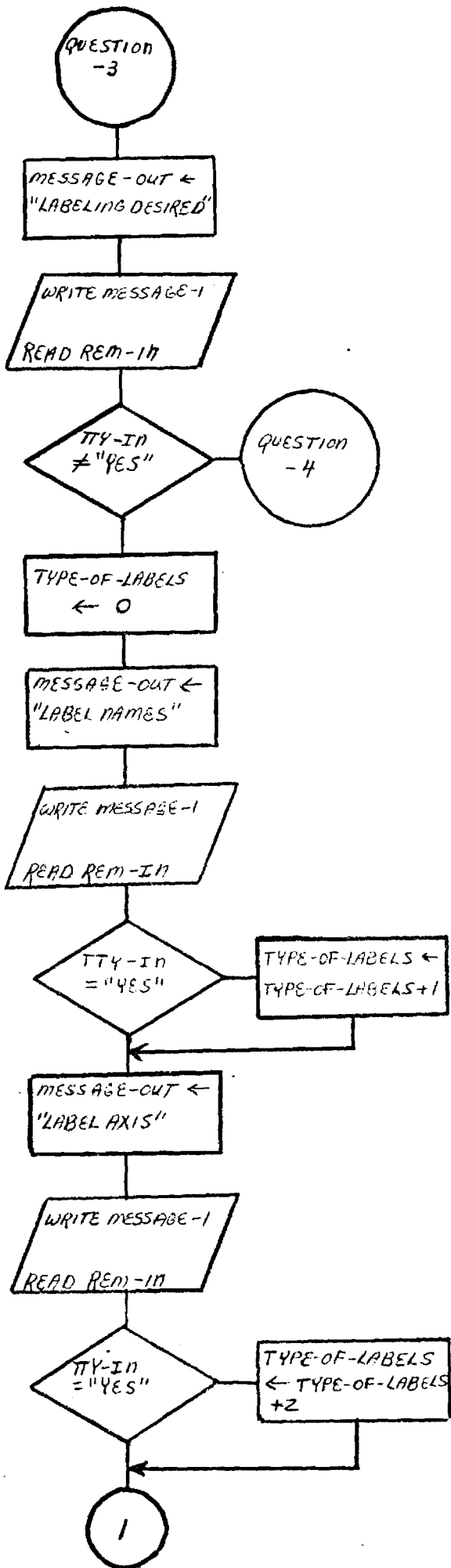
SECTION

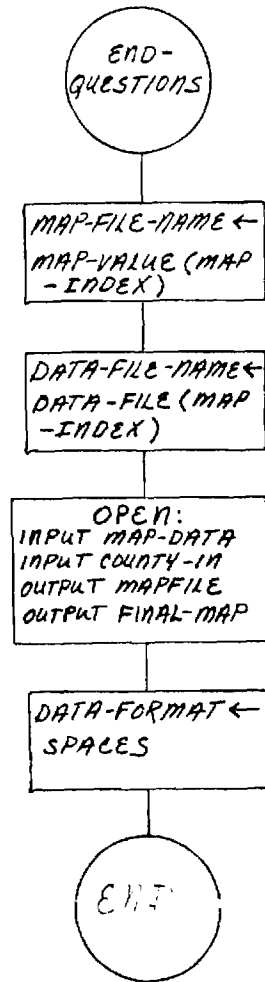
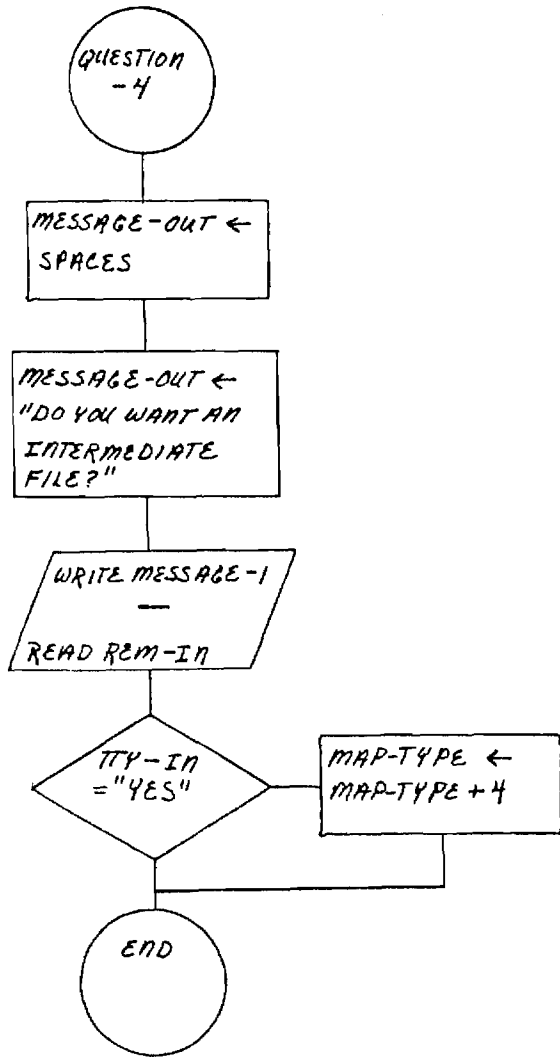
CLOSE-FILES-RTN
CLOSE-FILES-EXIT

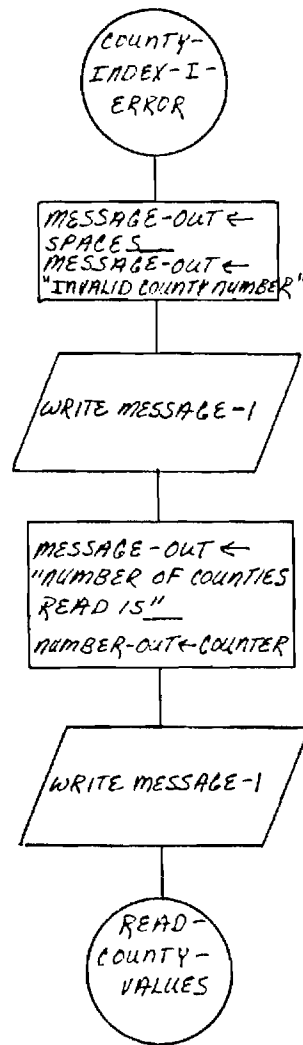
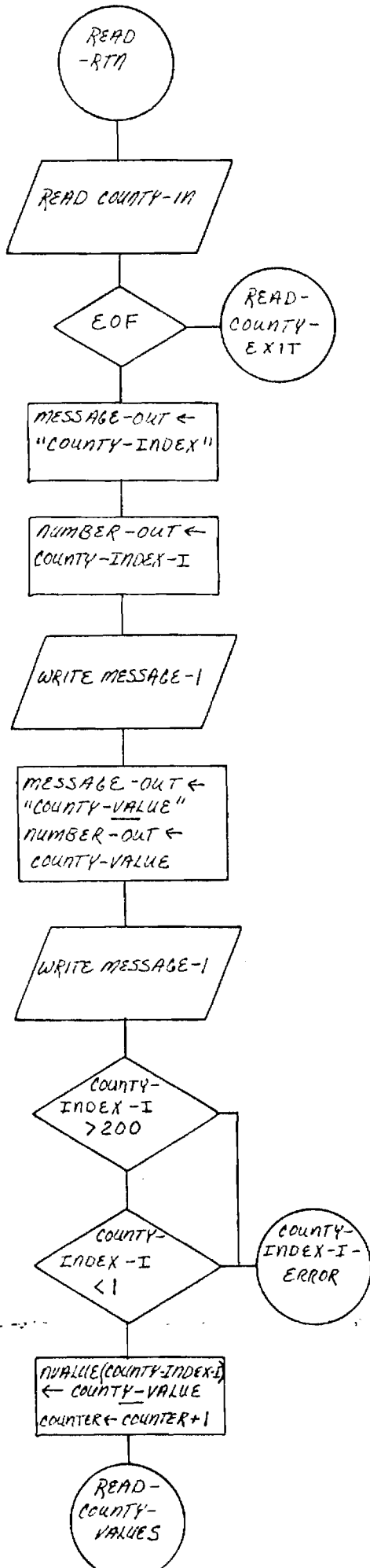
STOP-RUN

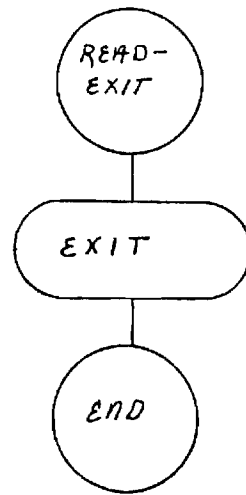
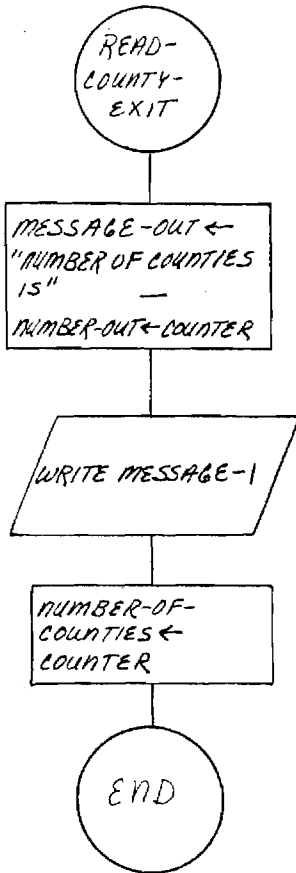


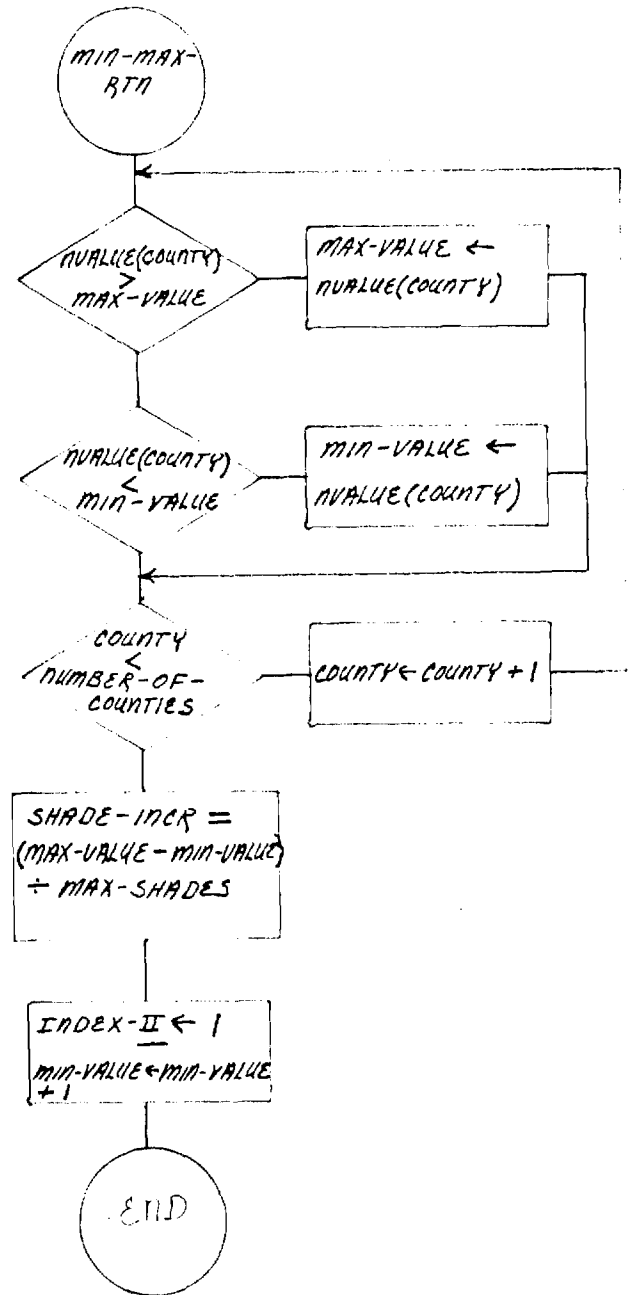
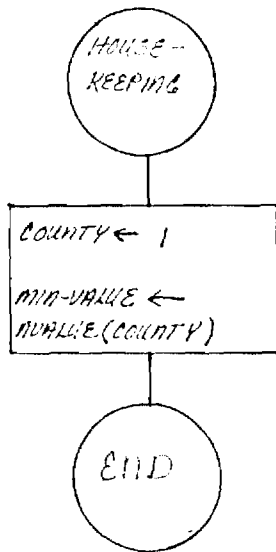


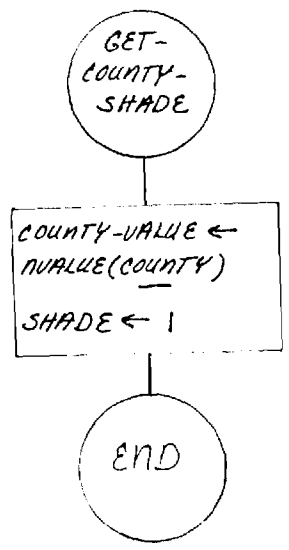
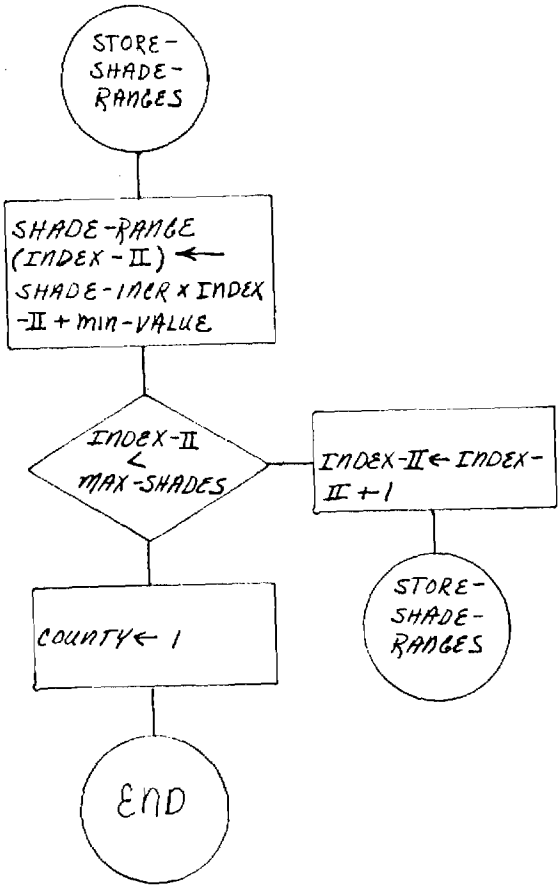


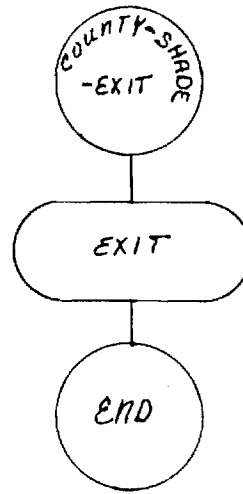
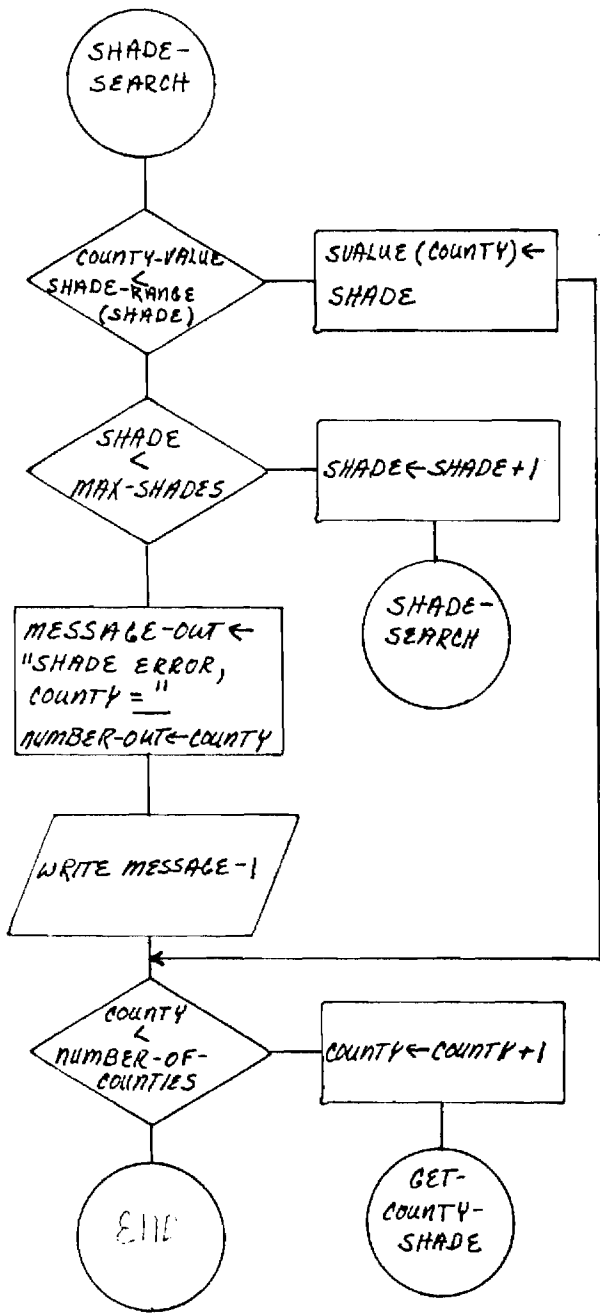


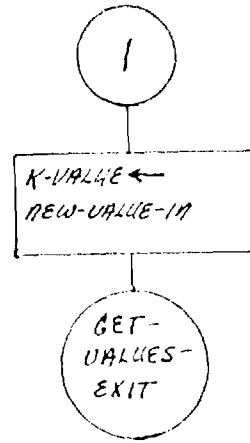
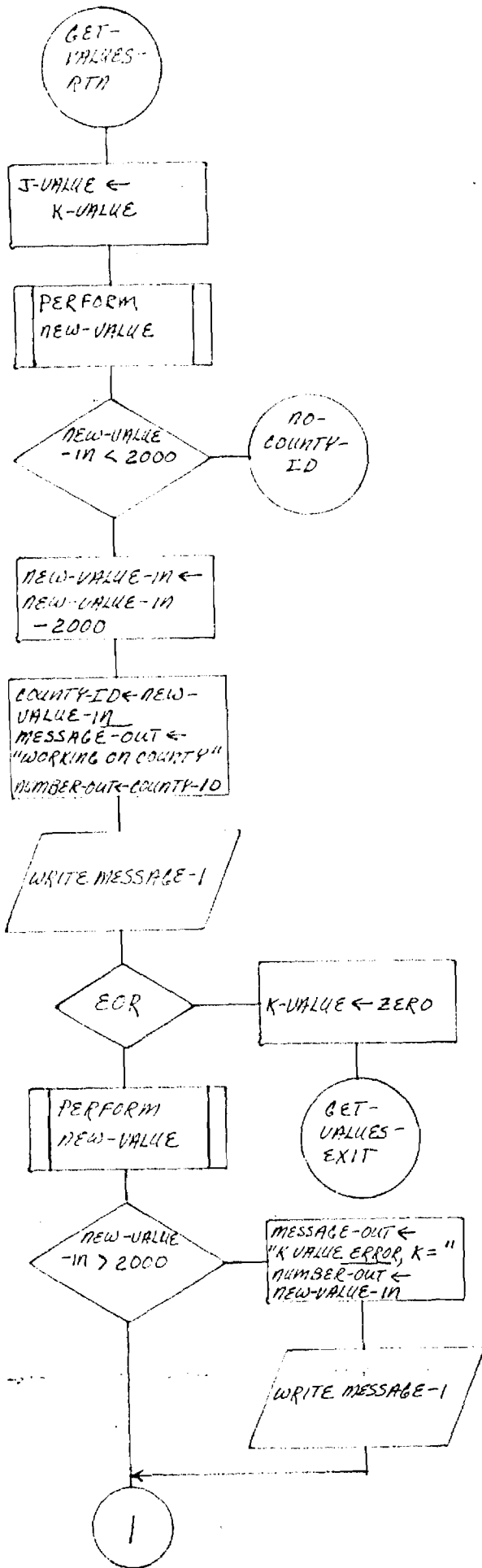


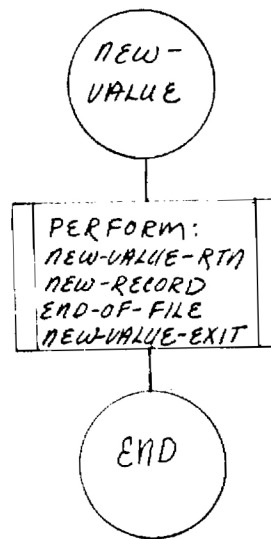
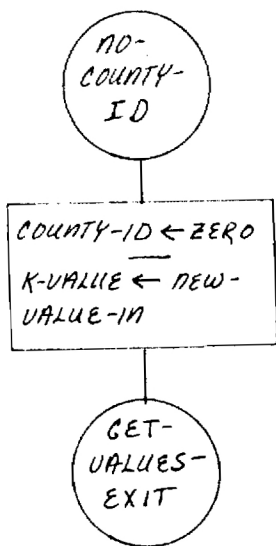


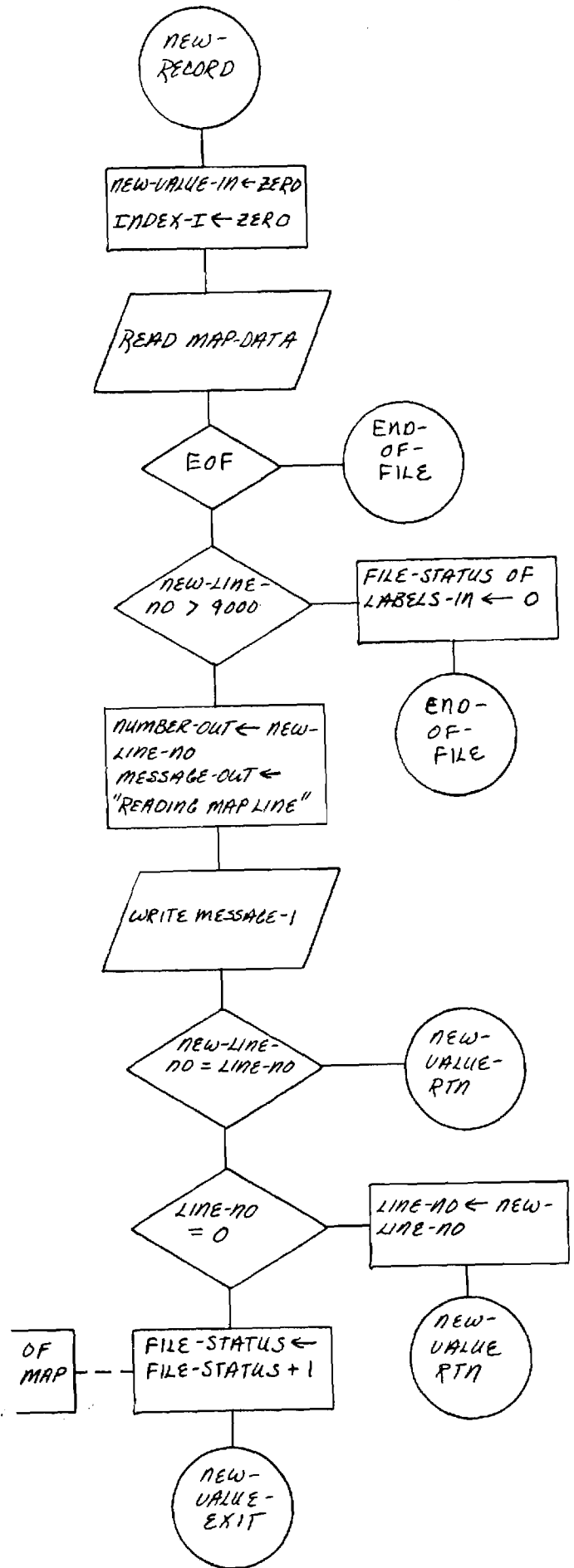
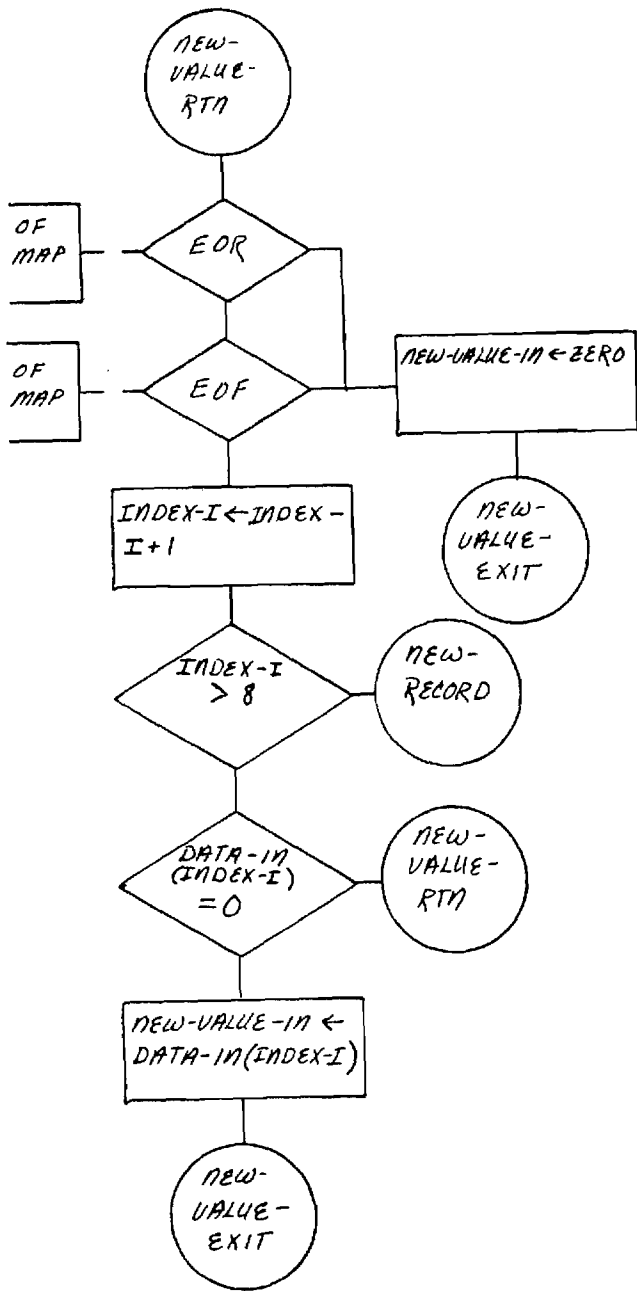


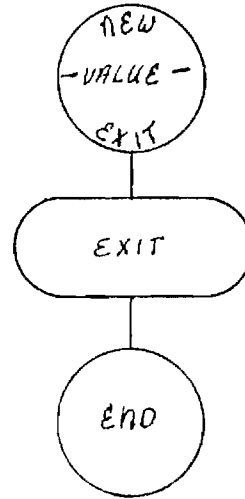
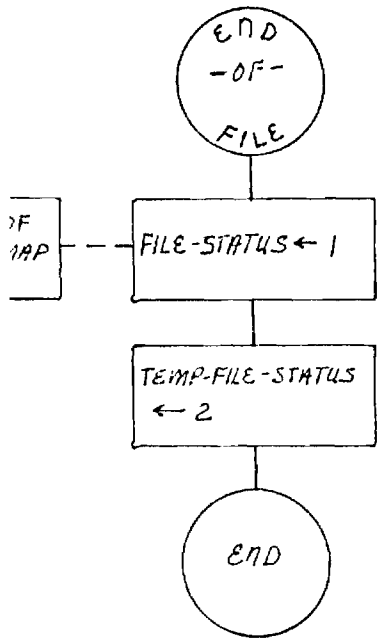


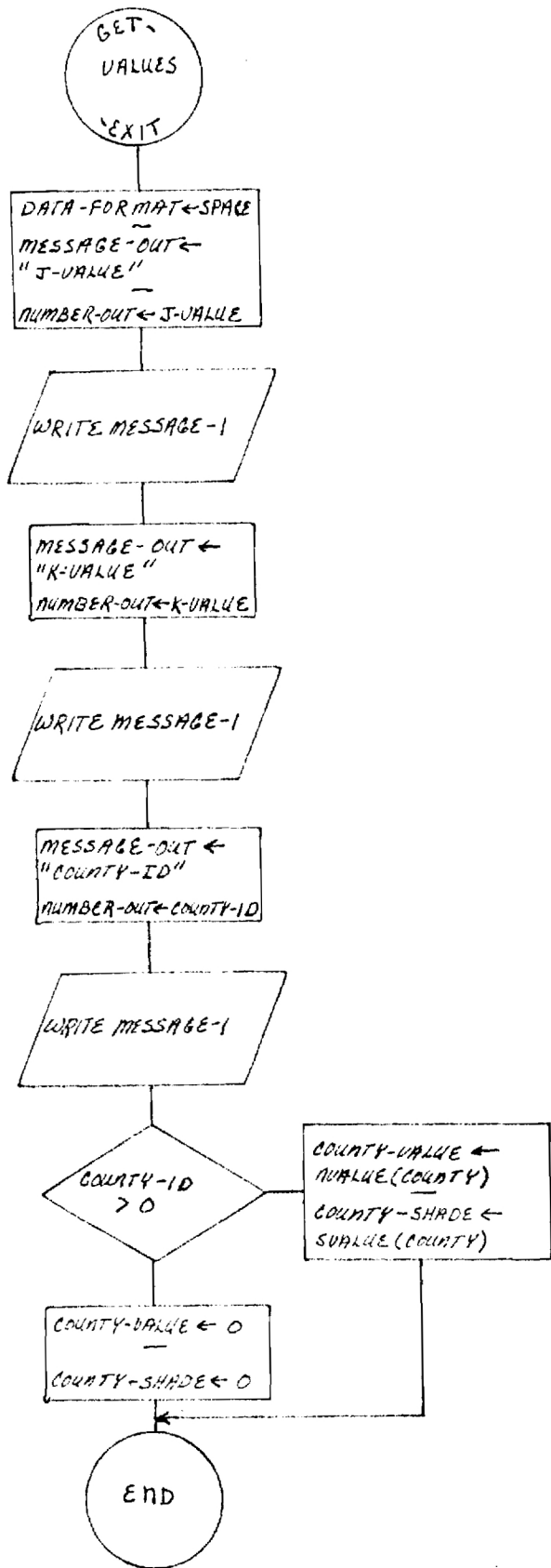


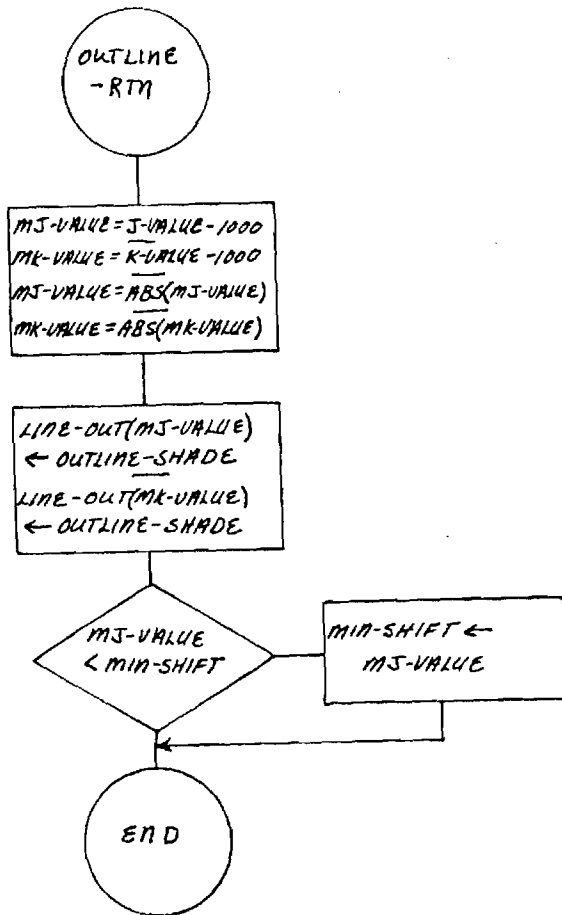
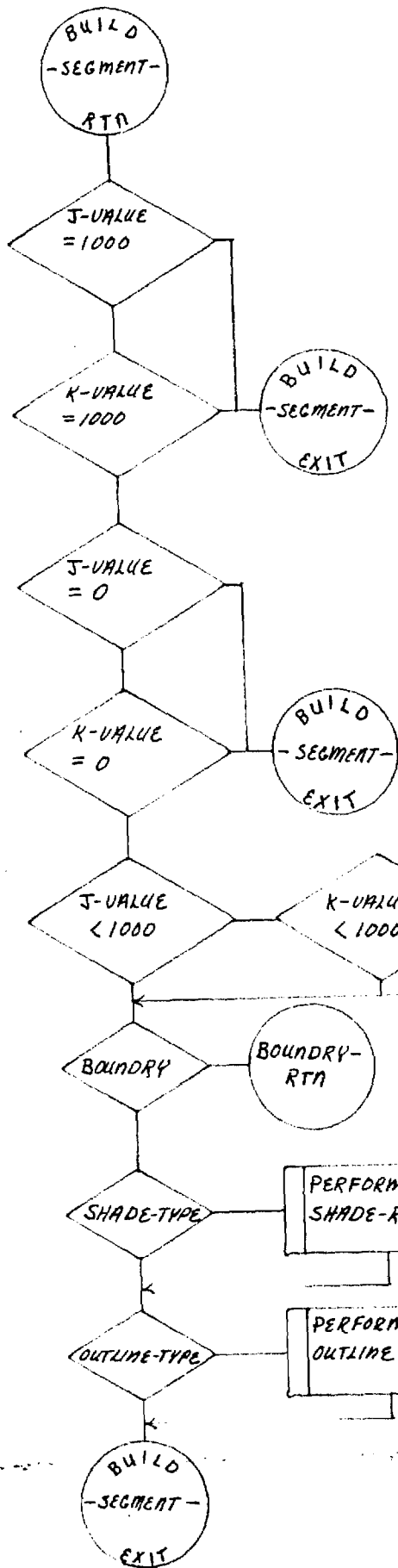


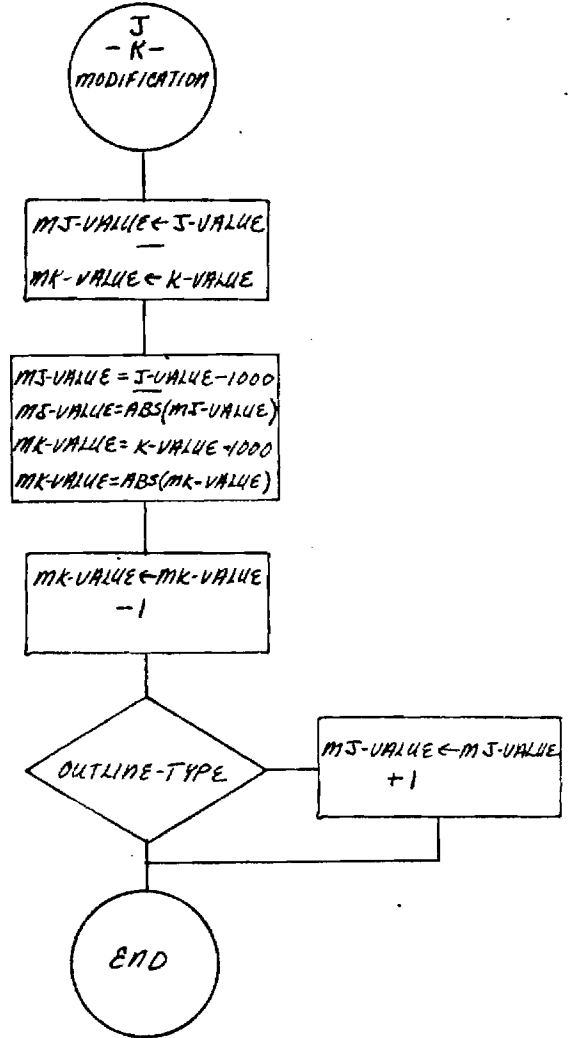
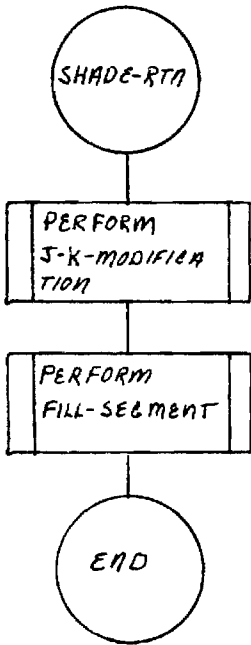


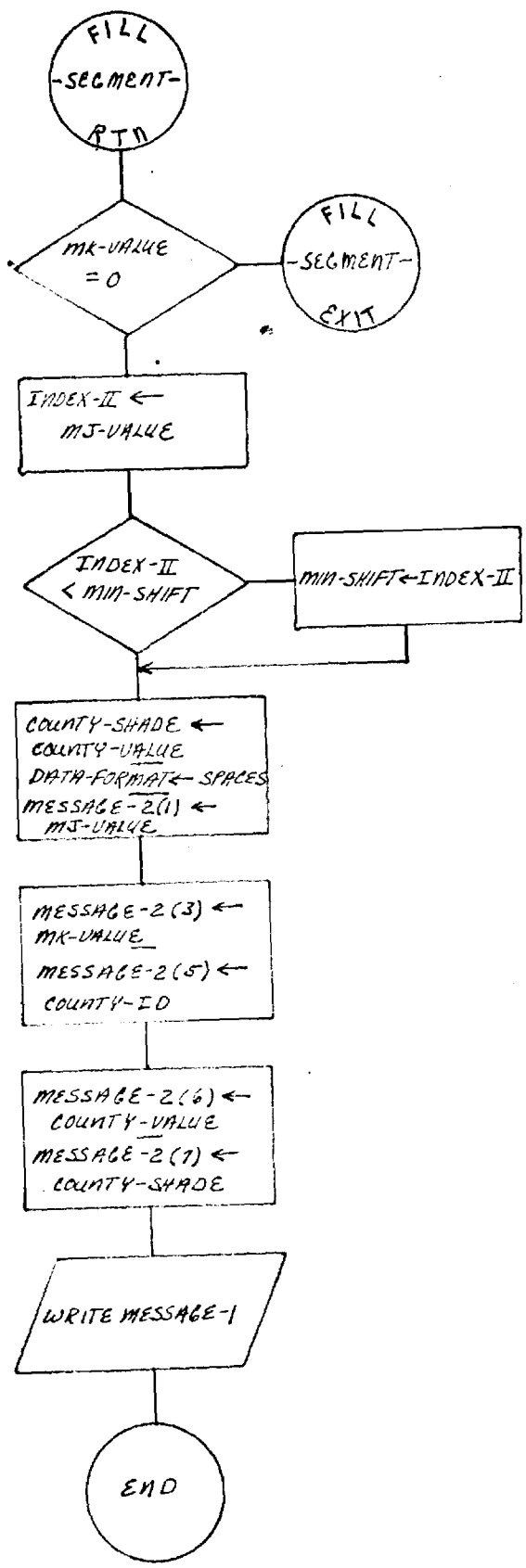
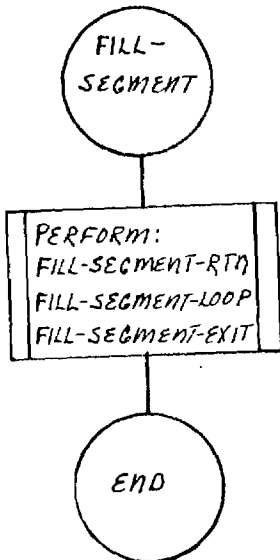


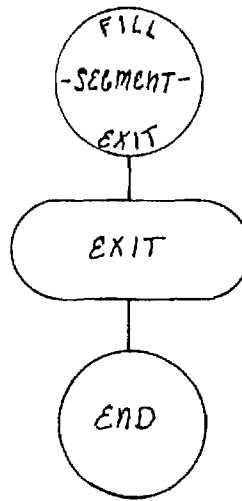
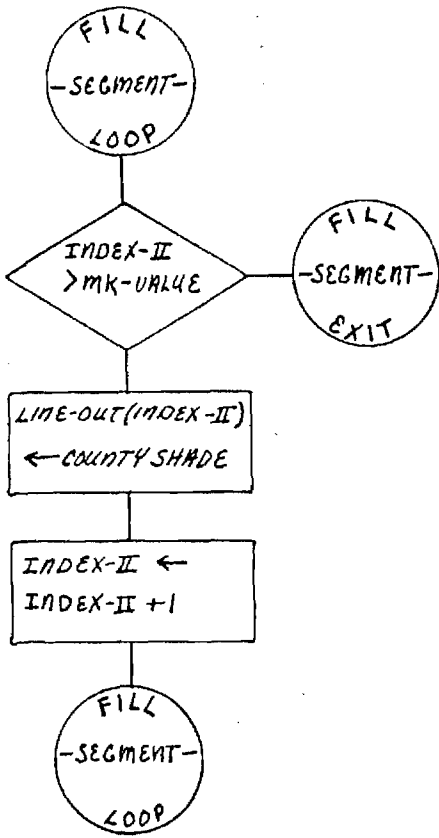


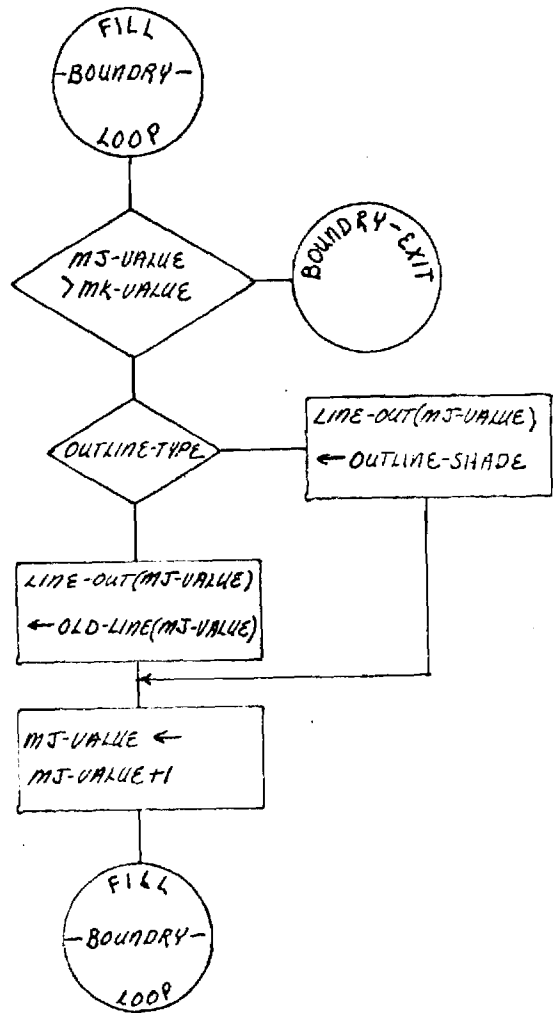
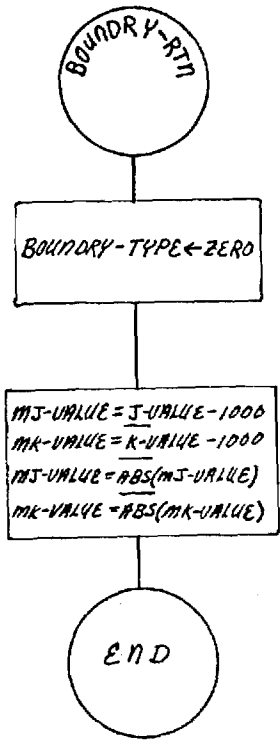


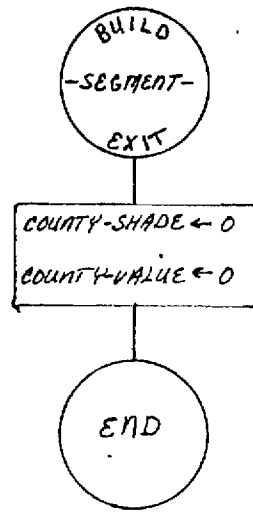
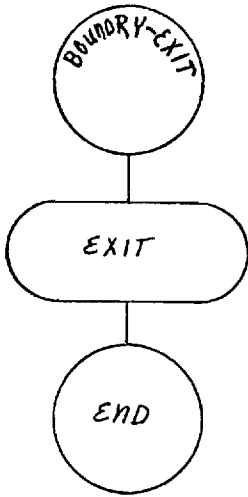


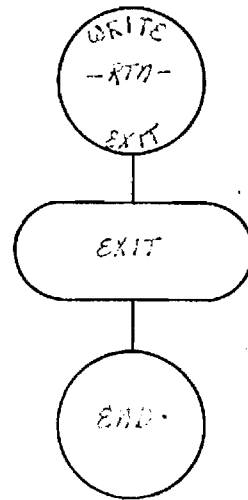
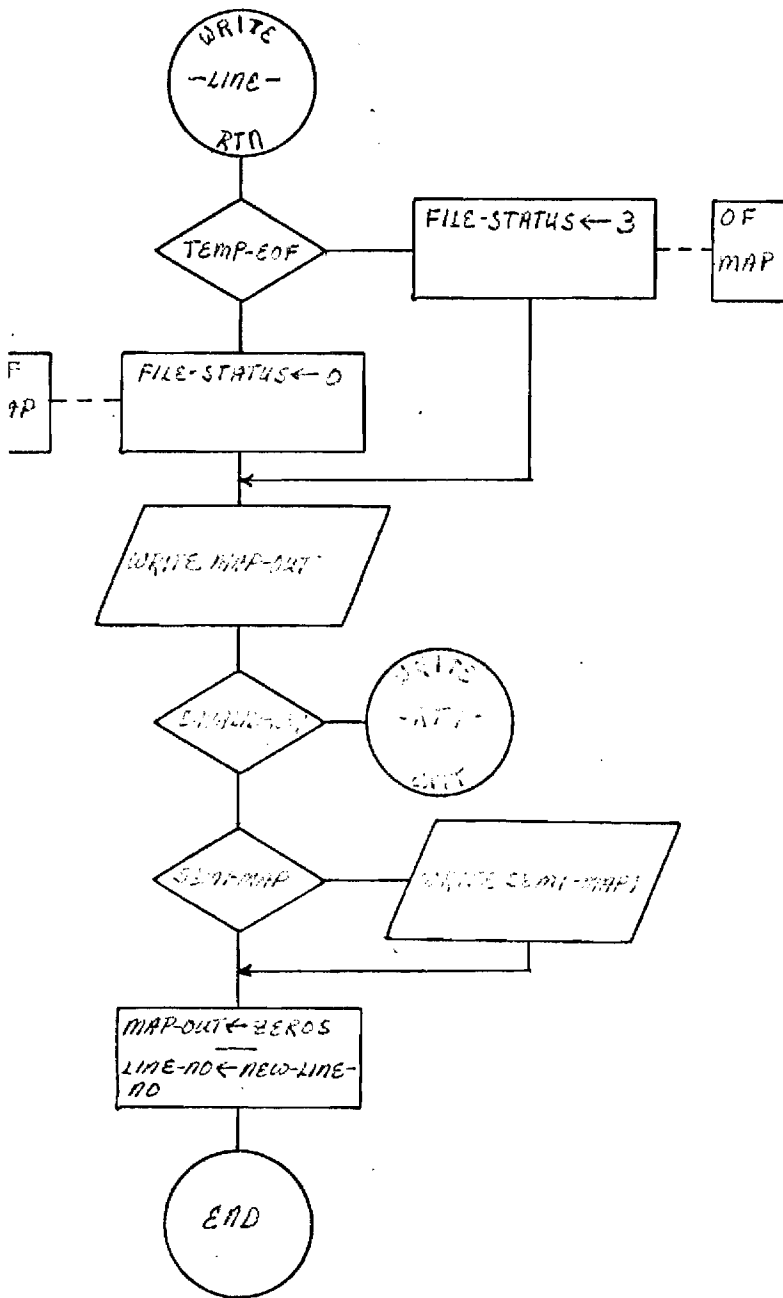


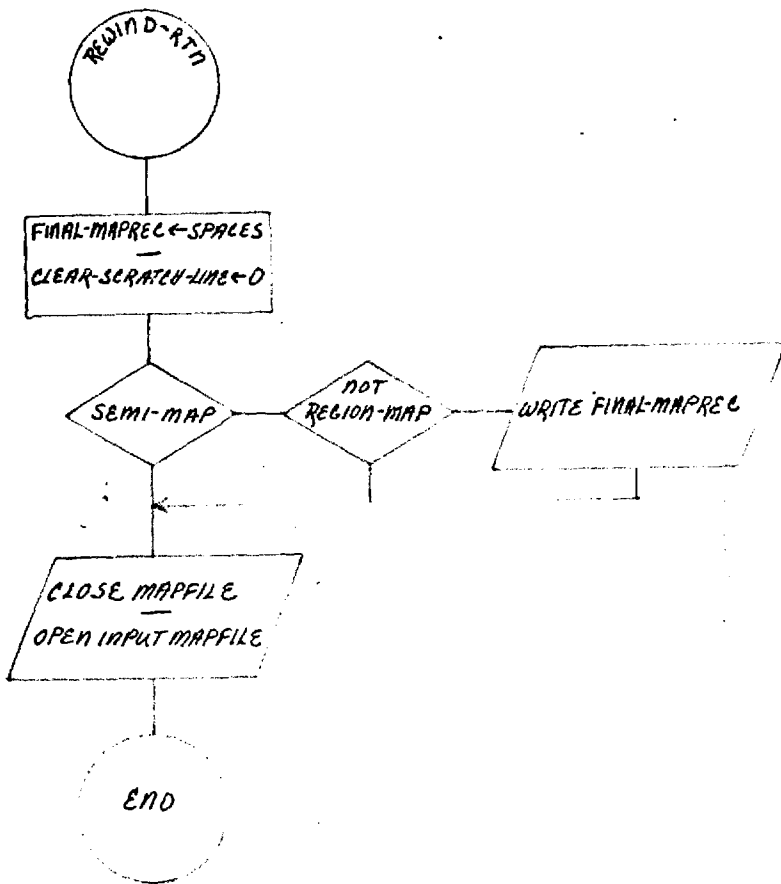


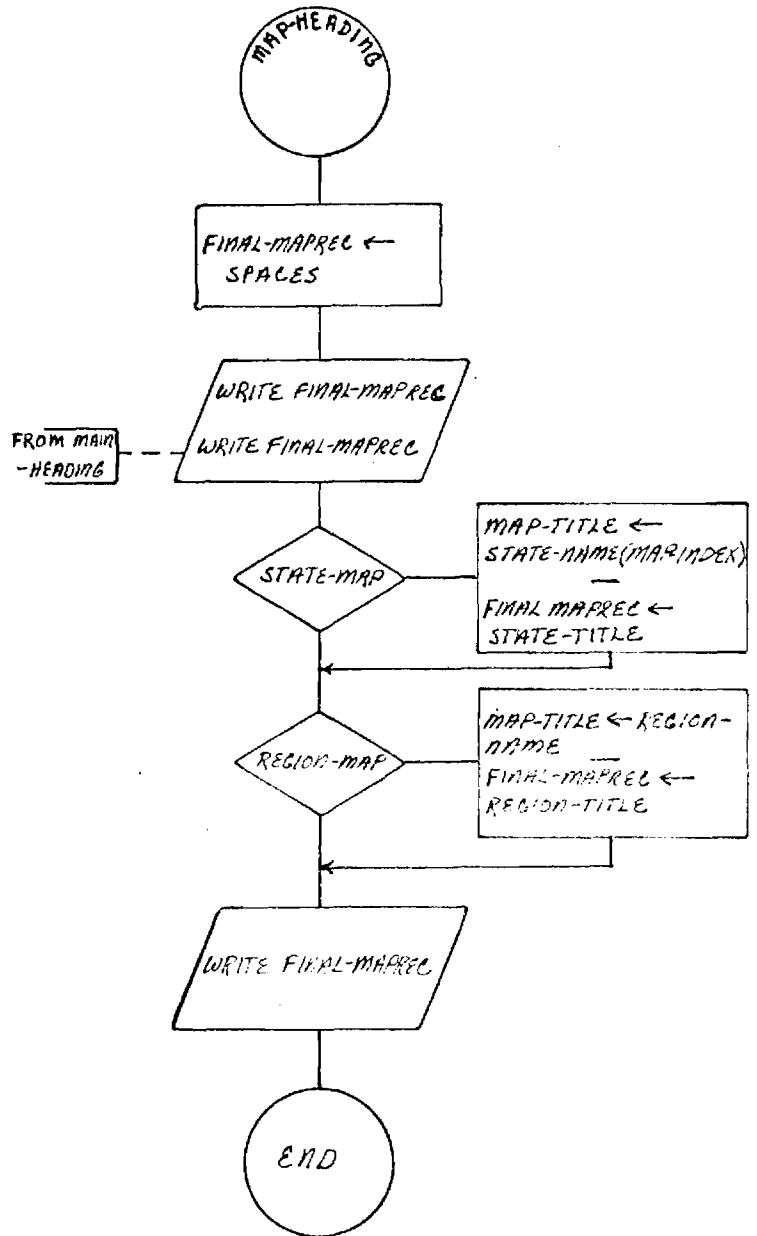
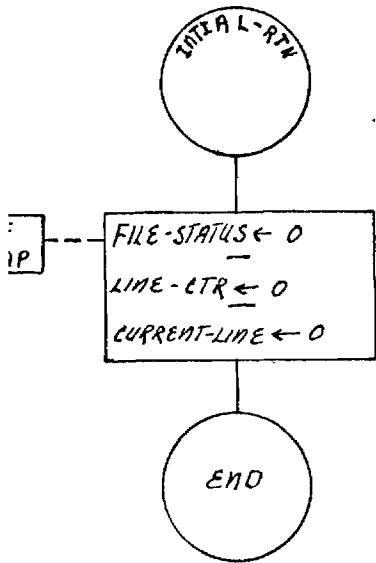


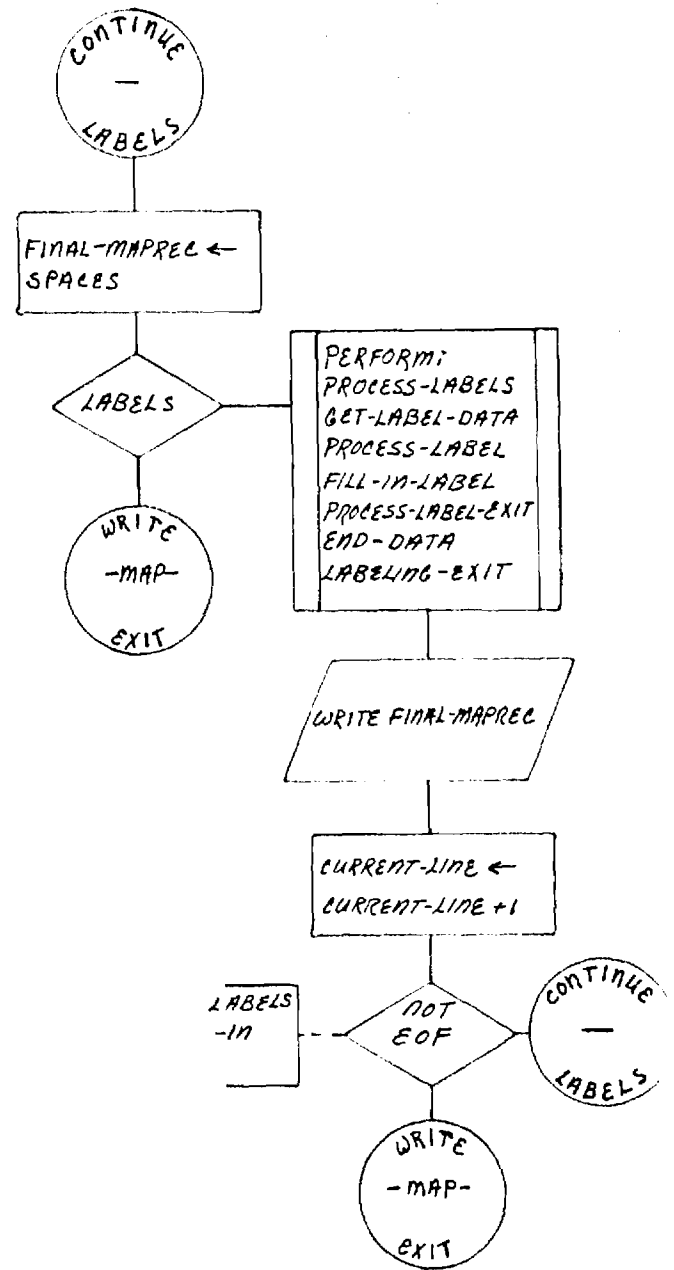
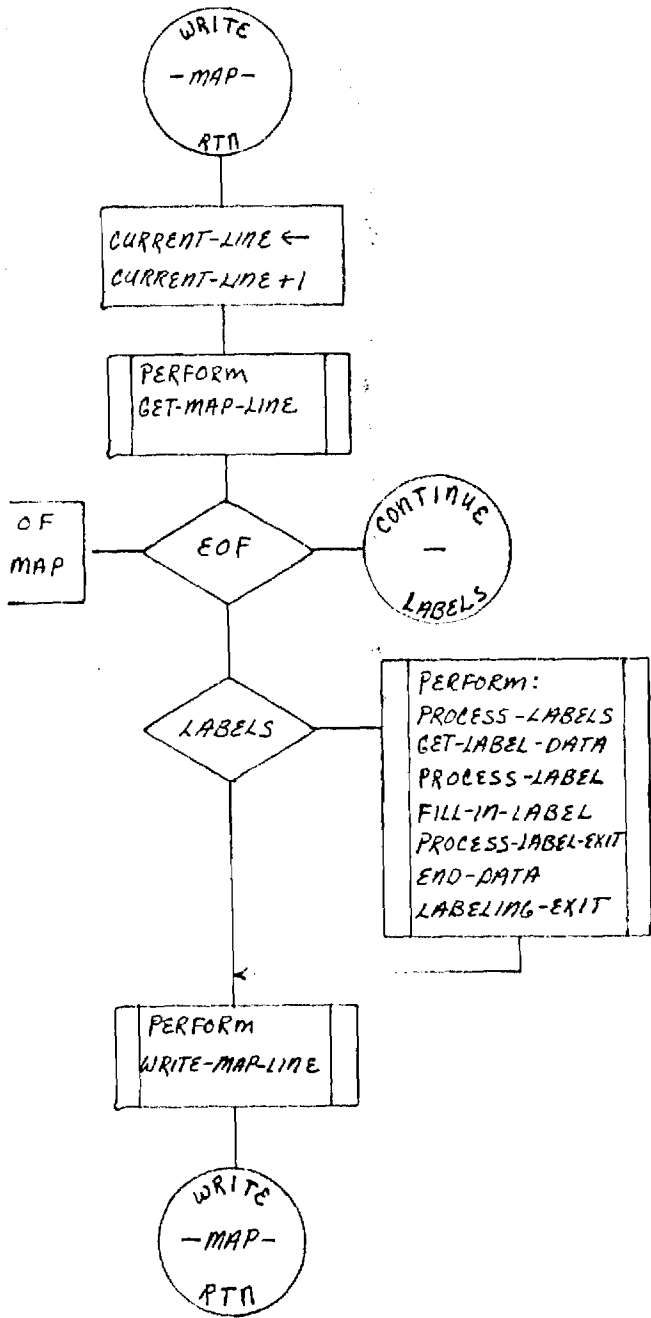


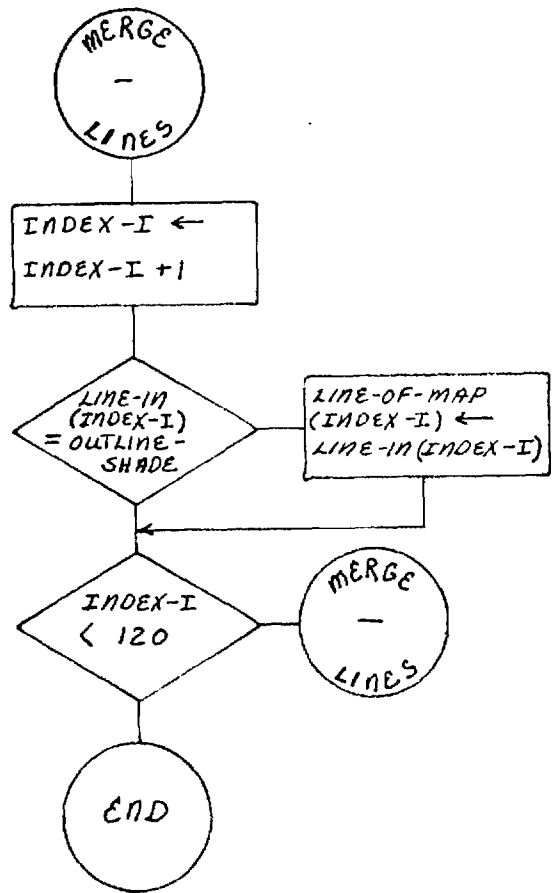
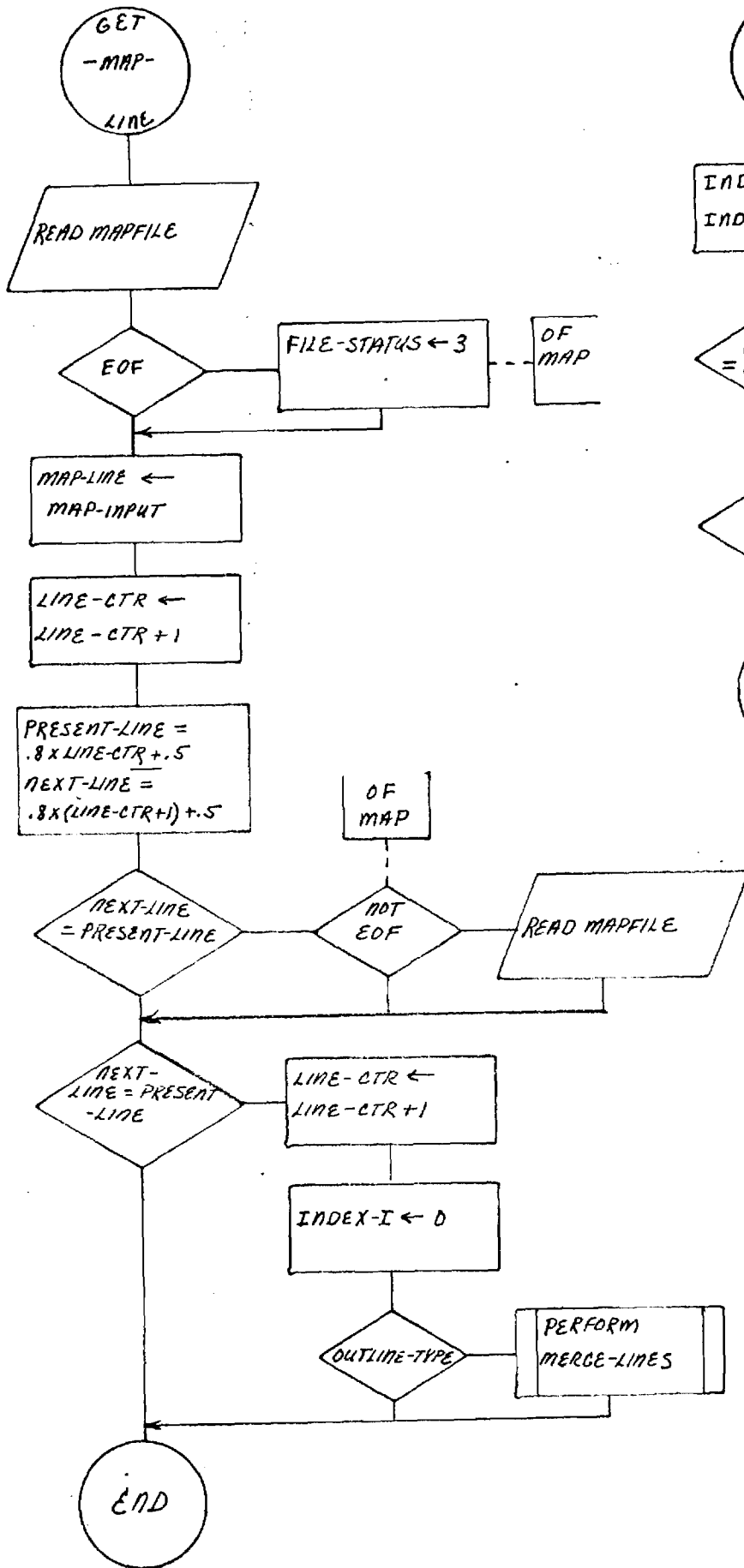


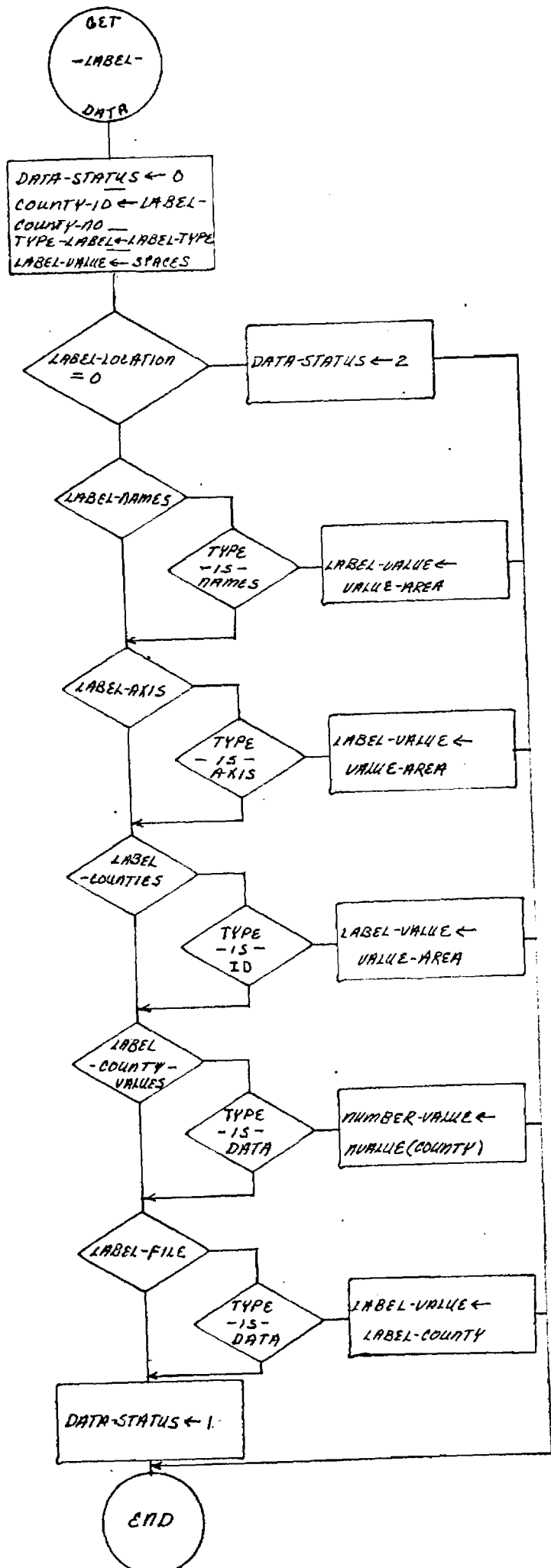
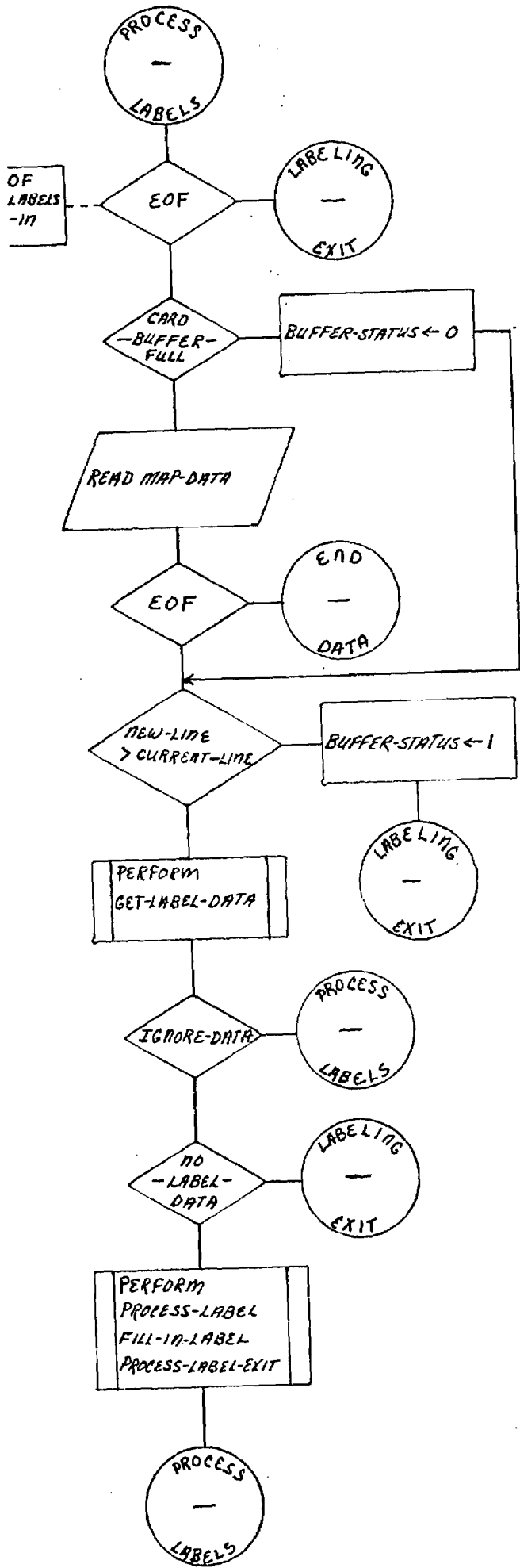


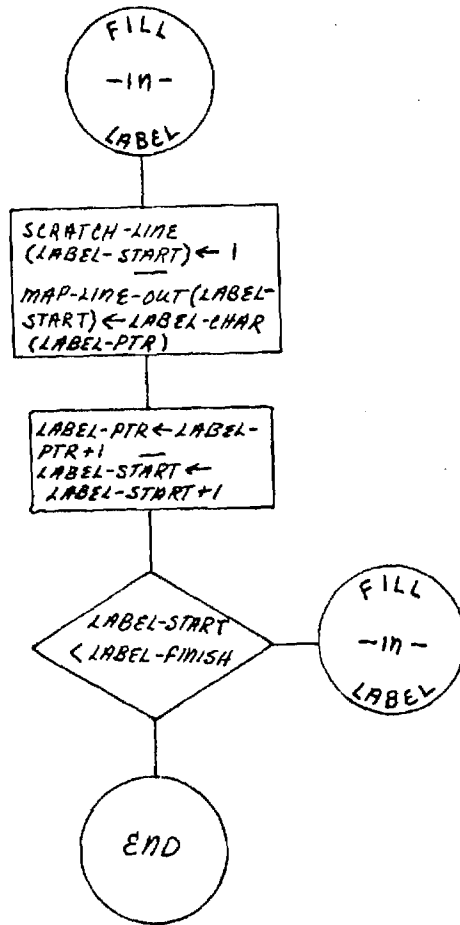
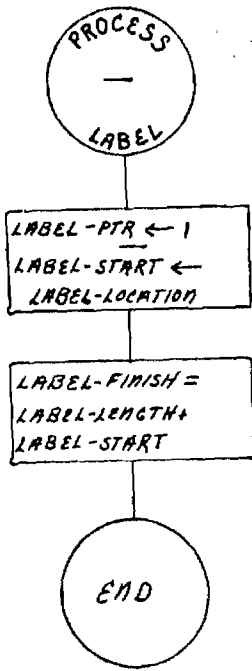


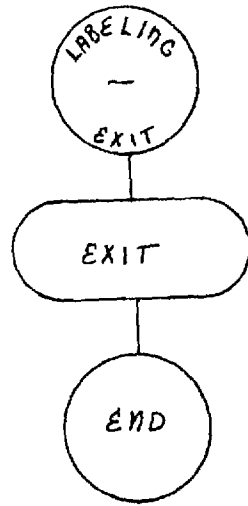
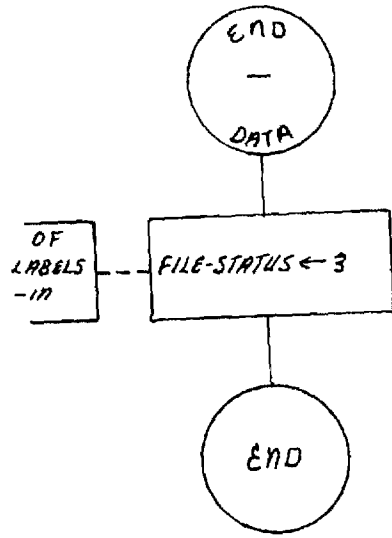
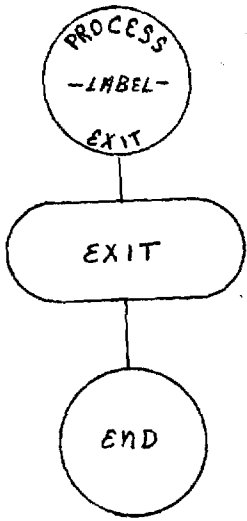


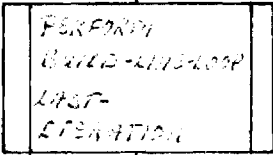
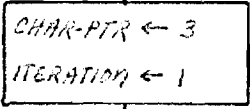


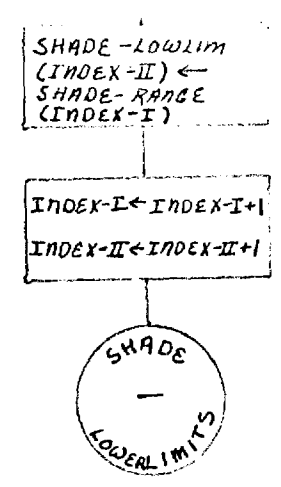
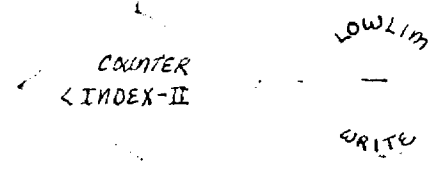
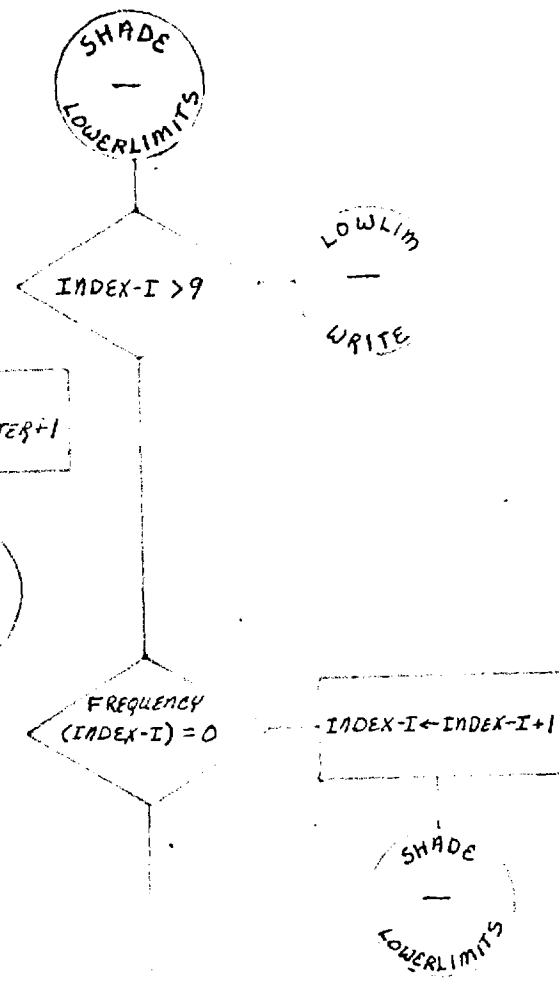
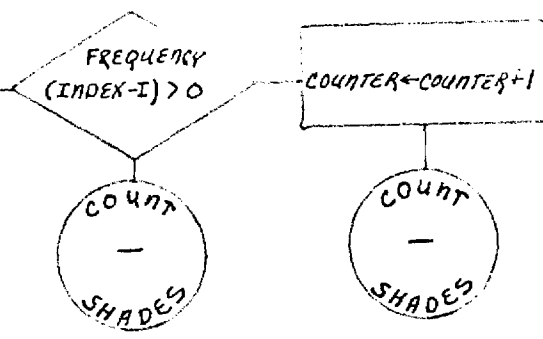
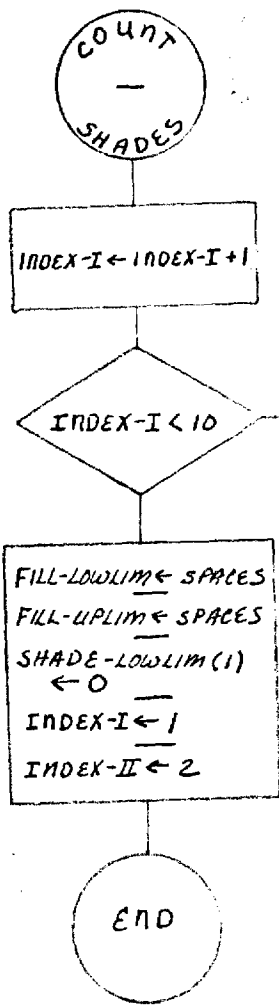


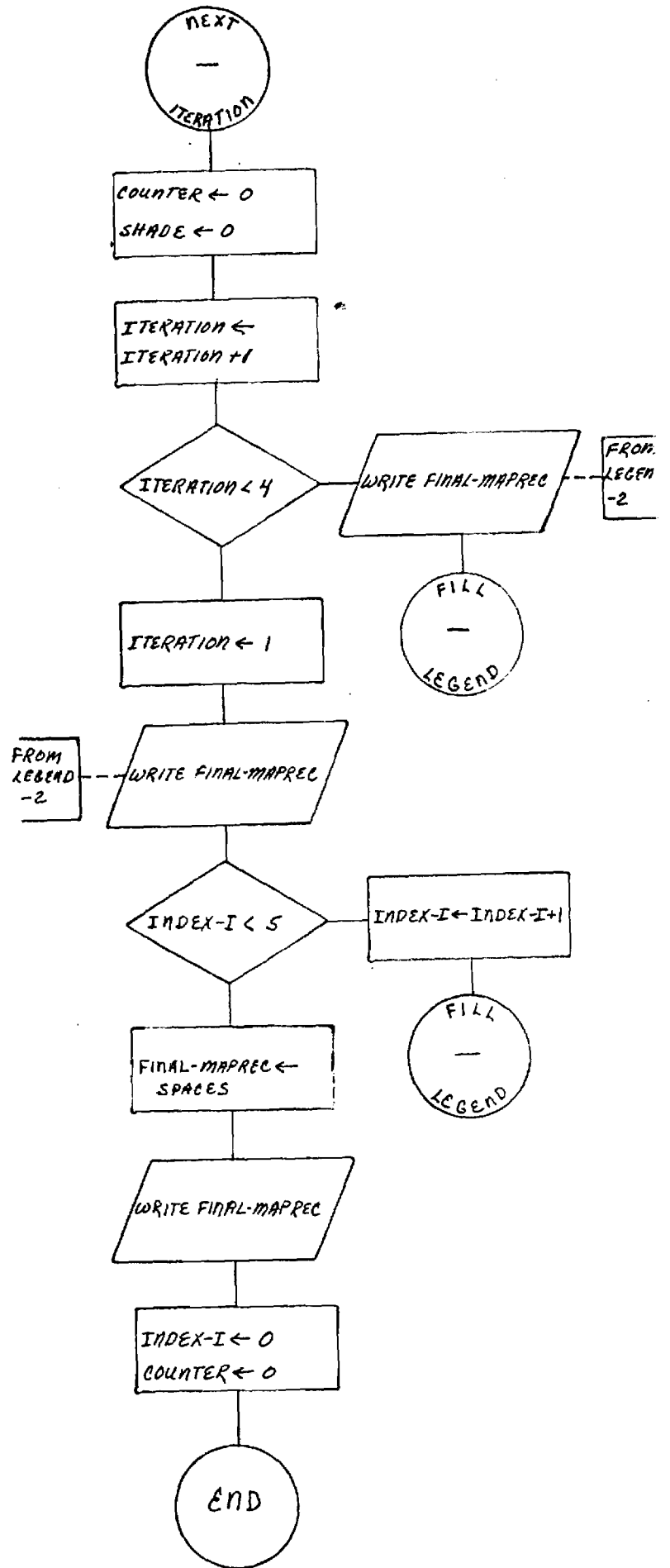
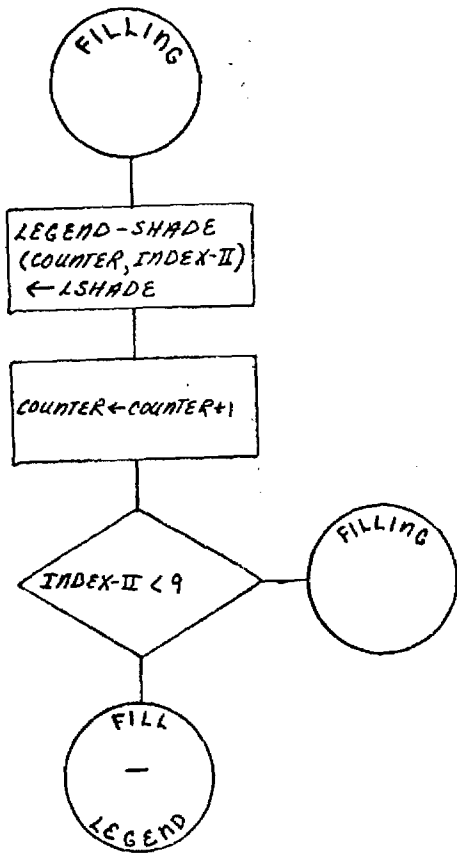


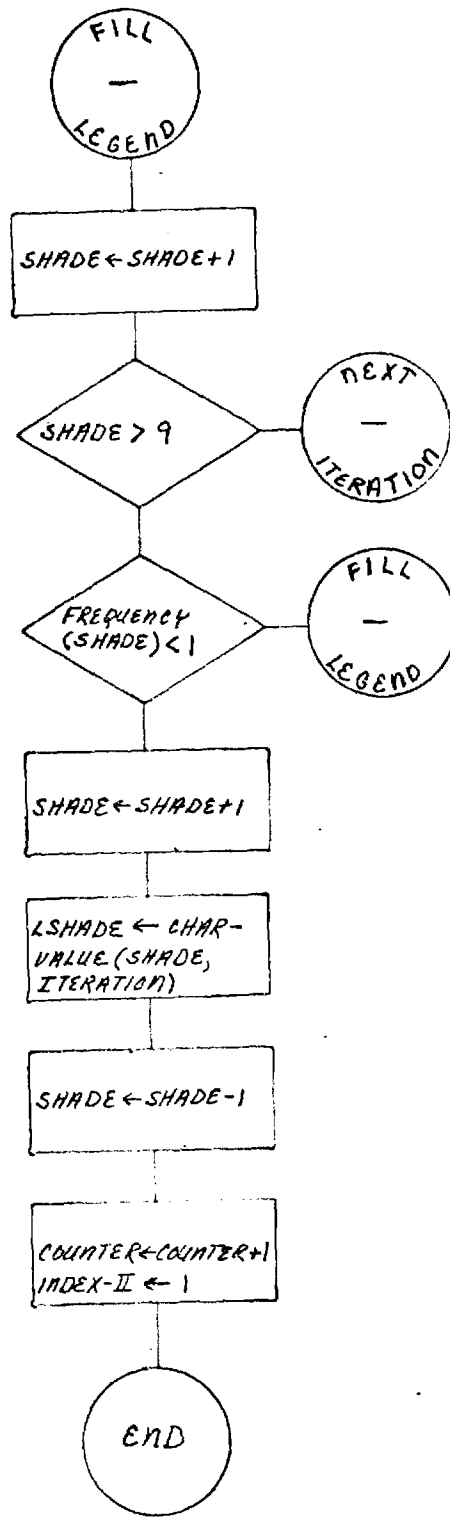
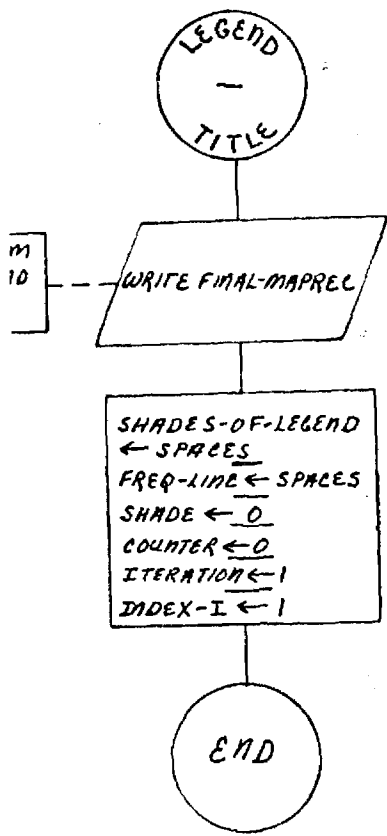


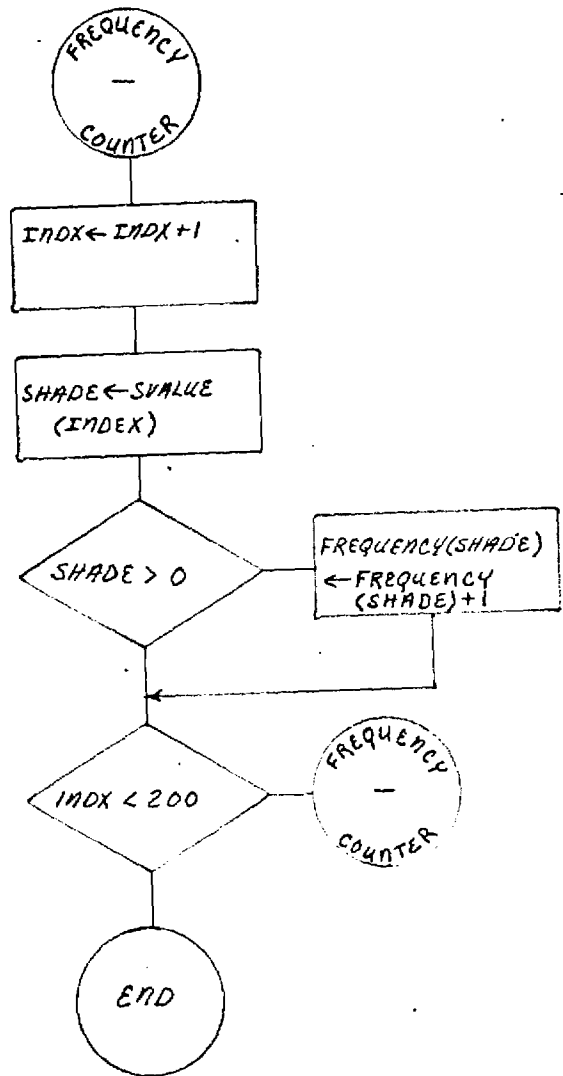
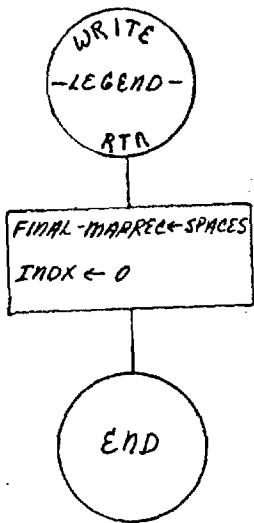


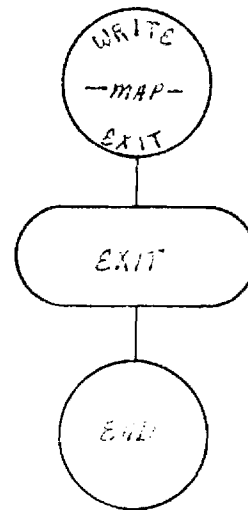
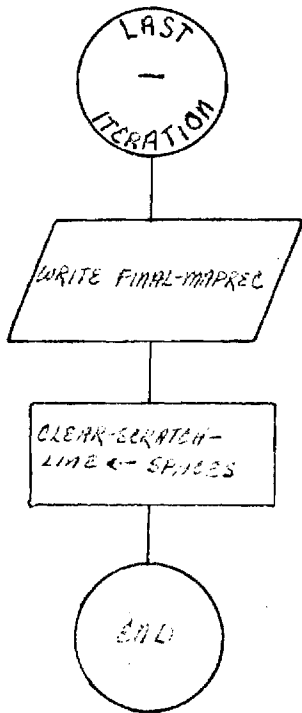


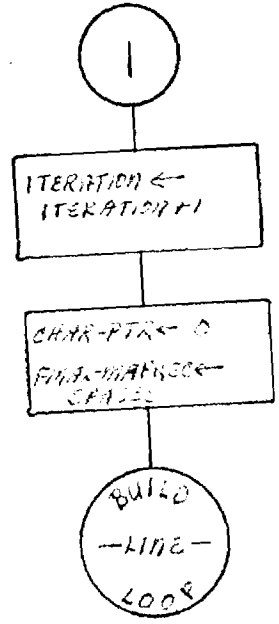
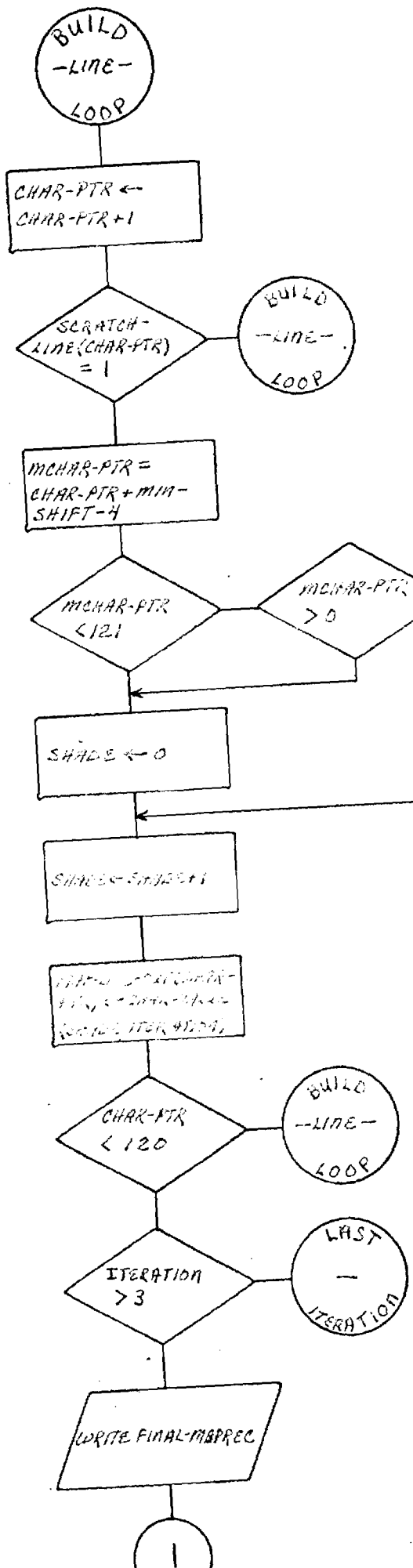


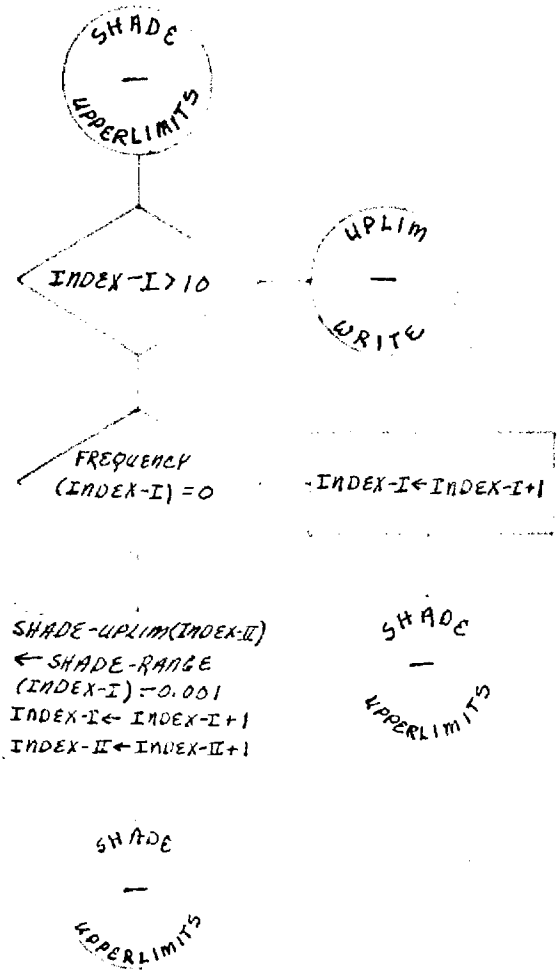
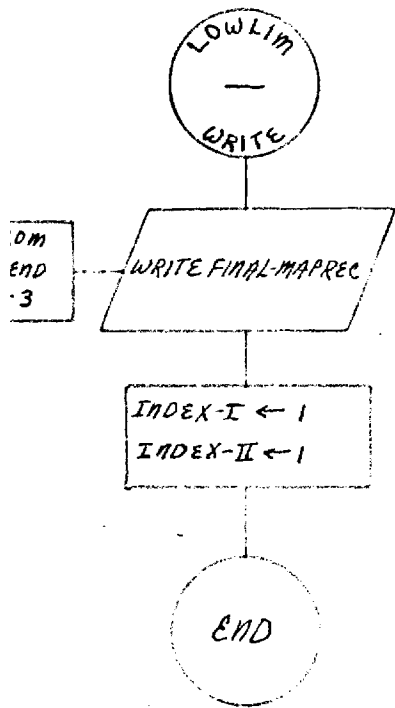


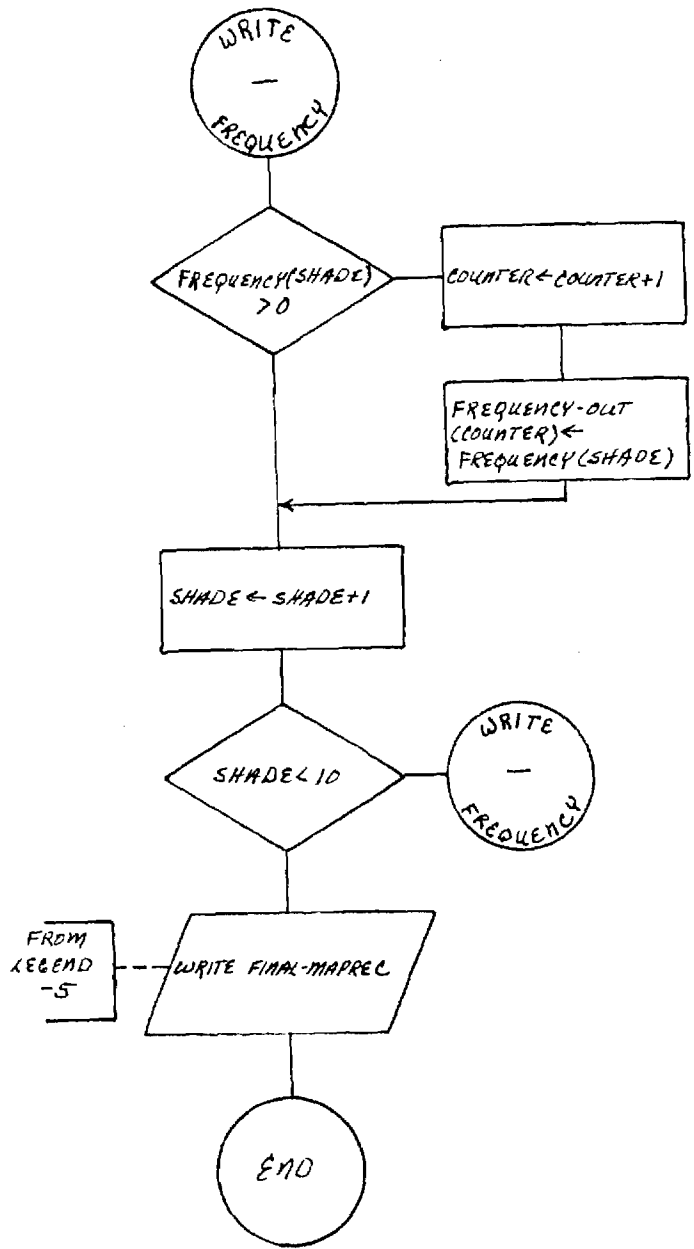
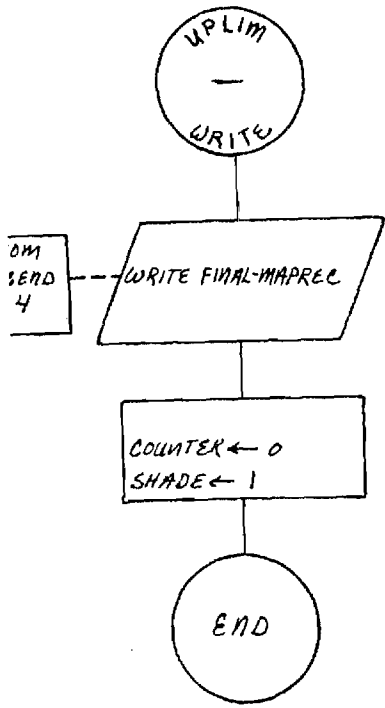


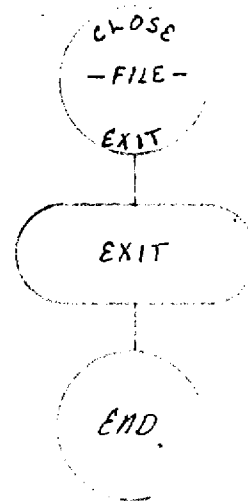
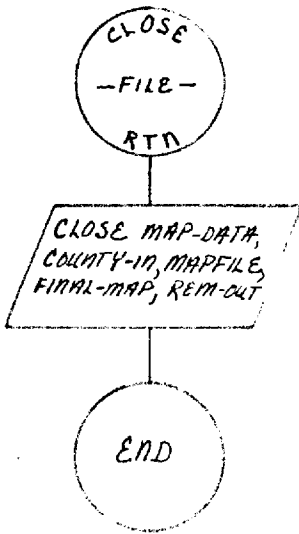


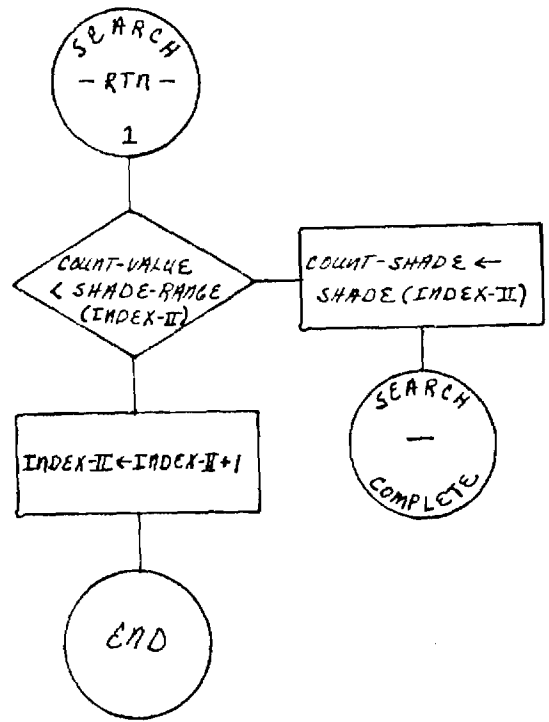
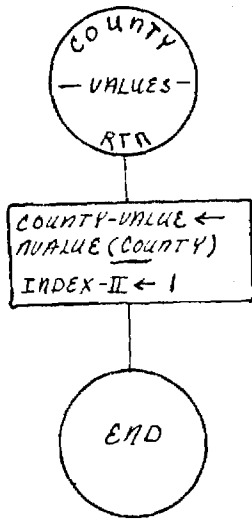




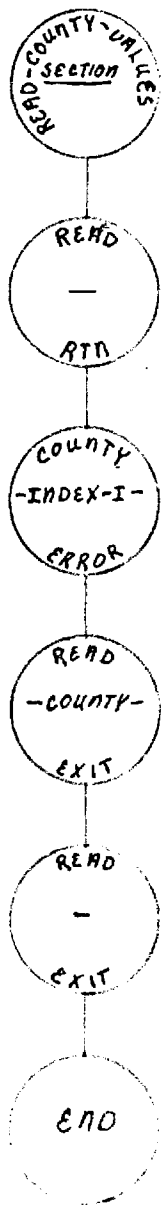
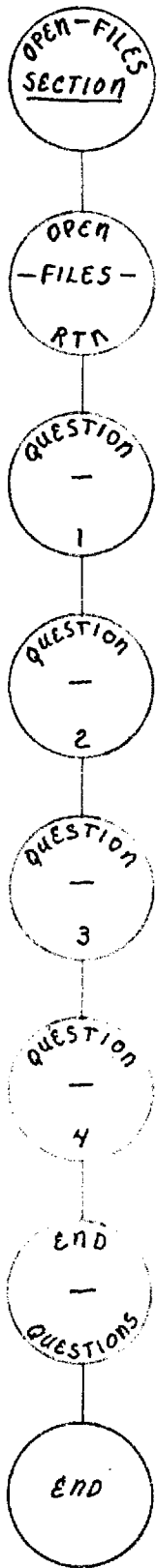




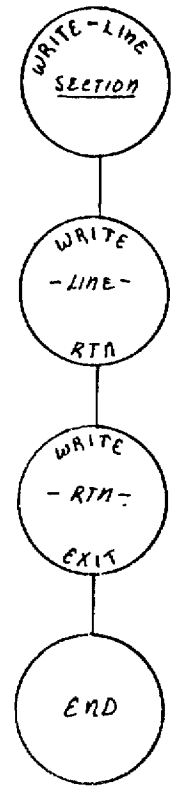
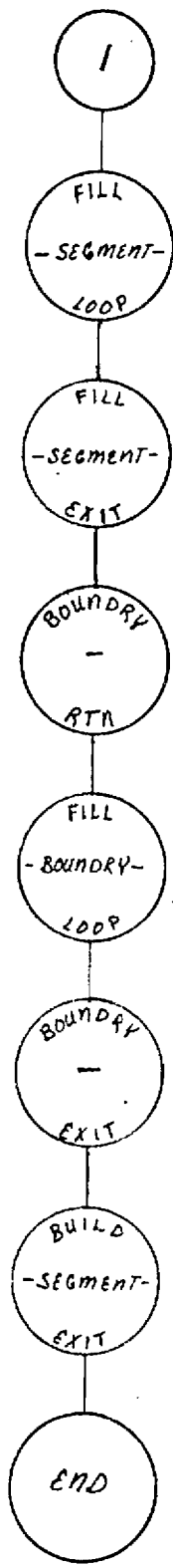
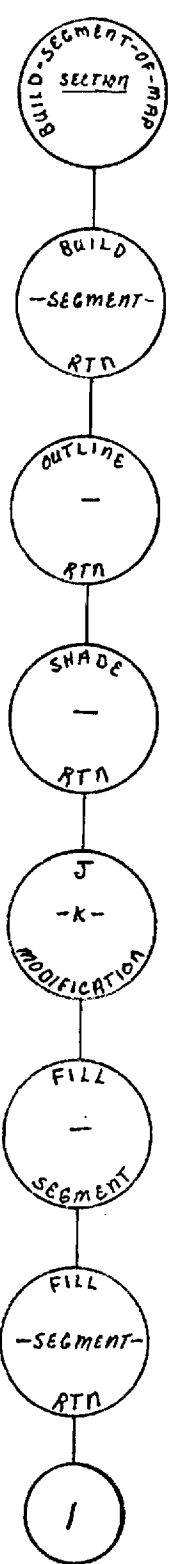
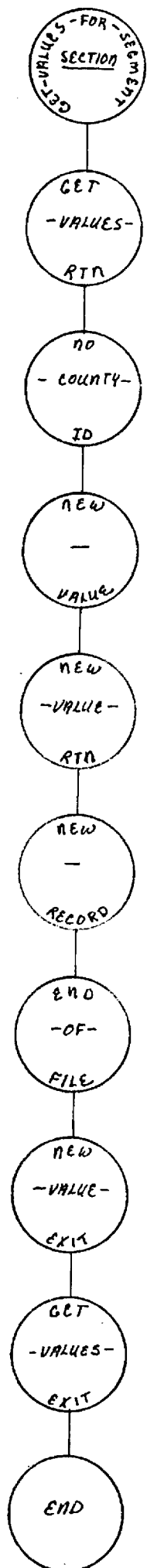




INITIALIZATION ROUTINE



PHASE I



```

10*IDENTIFICATION DIVISION.
20*PROGRAM-ID. MAPPING-SYSTEM-FDR-HEW.
30*AUTHOR. R CARLING.
40*INSTALLATION. GA TECH.
50*DATE-WRITTEN. JULY 1-10,1975.
60*DATE-COMPILED.
70*
80*
90*
100*
110*ENVIRONMENT DIVISION.
120*CONFIGURATION SECTION.
130*SOURCE-COMPUTER. F-5500.
140*OBJECT-COMPUTER. F-5500.
150*INPUT-OUTPUT SECTION.
160*FILE-CONTROL.
170*   SFLECT MAP-DATA ASSIGN TO DISK
180*       ACCESS MODE IS SEQUENTIAL.
190*   SFLECT COUNTY-IN ASSIGN TO DISK ACCESS MODE IS SEQUENTIAL.
200*   SFLECT MAPFILE ASSIGN TO 10 *.200 DISK
210*       ACCESS MODE IS SEQUENTIAL.
220*   SFLECT FINALMAP ASSIGN TO PRINTER.
230*   SFLECT REM-IN ASSIGN TO REMOTE.
240*   SFLECT REM-OUT ASSIGN TO REMOTE .
250*I-O-CONTROL.
260*
270*
280*
290*
300*
310*DATA DIVISION.
320*FILE SECTION.
330*
340*
350*FD REM-IN
360*   RECORD CONTAINS 80 CHARACTERS.
370*
380*01 TTY-IN                SIZE IS 80.
390*
400*
410*FD REM-OUT.
420*
430*01 MESSAGE=1
440*   03 MESSAGE=FORMAT
450*       05 MESSAGE=OUT                PIC X(40).
460*       05 NUMBER=OUT                PIC ZZZ9.
470*       05 BLANK=OUT                PIC X(36).
480*   03 DATA=FORMAT REDEFINES MESSAGE=FORMAT.
490*       05 MESSAGE=II OCCURS 10 TIMES
500*       07 MESSAGE=2                PIC 9(6).
510*       07 FILLER                    PIC X(2).
520*
530*
540*FD   MAP-DATA
550*   RECORDING MOFF IS STANDARD
560*   BLOCK CONTAINS 30 RECORDS
570*   RECORD CONTAINS 80 CHARACTERS
580*   VALUE OF ID IS INPUT-MAP.
590*
600*01 MAP-IN.
610*   03 NEW-LINE=NO                PIC 9(8) SYNC RIGHT.
620*   03 DATA-IN OCCURS 9 TIMES    PIC 9(8) SYNC RIGHT.
630*
640*01 INTERNAL-LABELING.
650*   03 NEW-LINE                PIC 9(8) SYNC RIGHT.
660*   03 LABEL-TYPE                PIC 0(8) SYNC RIGHT.
670*   03 LABEL-LOCATION            PIC 0(8) SYNC RIGHT.
680*   03 LABEL-LENGTH            PIC 0(8) SYNC RIGHT.
690*   03 VALUE-AREA                PIC V(16) SYNC RIGHT.
700*   03 LABEL-COUNTY=NO        PIC 0(8) SYNC RIGHT.
710*   03 FILLER                    PIC V(24).
720*FD COUNTY-IN
730*   RECORDING MOFF IS STANDARD
740*   BLOCK CONTAINS 30 RECORDS
750*   RECORD CONTAINS 80 CHARACTERS
760*   VALUE OF ID IS DATA-INPUT.
770*
780*01 COUNTY-INN.
790*   03 COUNTY-INDEX-I          PIC 9(8) SYNC RIGHT.
800*   03 COUNTY-VALUE            PIC 9(8) SYNC RIGHT.
810*   03 BLANK=PART OCCURS 8 TIMES PIC 9(8) SYNC RIGHT.

```

```

R20*
R30*
R40*FD MAPFILE
R50*   RECORDING MODE IS STANDARD
R60*   BLOCK CONTAINS 4 RECORDS
R70*   RECORD CONTAINS 120 CHARACTERS.
R80*
R90*01 MAP-OUT.
900*   02 LINE-OUT OCCURS 120 TIMES      PIC 9.
910*01 MAP-INPUT.
920*   02 LINE-IN OCCURS 120 TIMES      PIC 9.
930*
940*
950*FD FINALMAP
960*   RECORDING MODE IS STANDARD
970*   RECORD CONTAINS 120 CHARACTERS.
980*
990*01 FINAL-MAPREC.
1000*  02 MAP-LINE=CLT OCCURS 120 TIMES    PIC X.
1010*01 SEMI-MAP1.
1020*  02 SEMI-LINE OCCURS 120 TIMES      PIC 9.
1030**
1040**
1050**
1060**
1070*WORKING-STORAGE SECTION.
1080*77 INDX          PIC 9(11)    COMP=1    VALUE 0    SYNC RIGHT.
1090*77 INDEX-T      PIC 9(11)    COMP=1    VALUE 9    SYNC RIGHT.
1100*77 INDEX-TI     PIC 9(11)    COMP=1    VALUE 0    SYNC RIGHT.
1110*77 MAP-INDEX    PIC 9(11)    COMP=1    VALUE 0    SYNC RIGHT.
1120*   88 STATE-MAP  VALUE IS 1 THRU 8.
1130*   88 REGION-MAP VALUE IS 9.
1140*77 MINDEX      PIC 9(11)    COMP=1    VALUE 0    SYNC RIGHT.
1150*77 MIN-SHIFT   PIC 9(11)    COMP=1    VALUE 99   SYNC RIGHT.
1160*77 COUNTER     PIC 9(11)    COMP=1    VALUE 0    SYNC RIGHT.
1170*77 LINE-CTR    PIC 9(11)    COMP=1    VALUE 0    SYNC RIGHT.
1180*77 CURRENT-LINE PIC 9(11)    COMP=1    VALUE 0    SYNC RIGHT.
1190*77 CHAR-PTR    PIC 9(11)    COMP=1    VALUE 0    SYNC RIGHT.
1200*77 MCHAR-PTR   PIC 9(11)    COMP=1    VALUE 0    SYNC RIGHT.
1210*77 PRESENT-LINE PIC 9(11)    COMP=1    VALUE 0    SYNC RIGHT.
1220*77 NEXT-LINE   PIC 9(11)    COMP=1    VALUE 0    SYNC RIGHT.
1230*77 ITERATION   PIC 9(11)    COMP=1    VALUE 0    SYNC RIGHT.
1240*77 LINE-NO     PIC 9(11)    COMP=1    VALUE 0    SYNC RIGHT.
1250*77 NEW-VALUE-TN PIC 9(11)    COMP=1    VALUE 0    SYNC RIGHT.
1260*77 NUMBER-OF-COUNTIES PIC 9(4) COMP=1 VALUE 0 SYNC RIGHT.
1270*77 BUFFER-STATUS PIC 9 COMP=1 SYNC RIGHT VALUE 0.
1280*   88 CARD-BUFFER-FULL VALUE 1.
1290*77 DATA-STATUS PIC 9 COMP=1 VALUE 0 SYNC RIGHT.
1300*   88 IGNORE-DATA VALUE IS 1.
1310*   88 NO-LABEL-DATA VALUE 2.
1320*
1330*
1340*
1350*01 OLD-LINE.
1360*   02 OLD-LINE OCCURS 120 TIMES      PIC 9.
1370*01 MAP-LINE.
1380*   02 LINE-OF-MAP OCCURS 120 TIMES    PIC 9.
1390*01 CLEAR-MASK-LINE.
1400*   02 MASK-LINE OCCURS 120 TIMES    PIC 9.
1410*
1420*
1430*
1440*01 CONDITIONAL-FLAGS.
1450*   02 MAP.
1460*     03 FILE-STATUS PIC 9 COMP VALUE 0 SYNC RIGHT.
1470*       88 EDP VALUE 1 THRU 9.
1480*       88 LINE-COMPLETED VALUE 1 THRU 9.
1490*       88 EOF VALUE 3.
1500*   02 LABELS-IN.
1510*     03 FILE-STATUS PIC 9 COMP VALUE 3 SYNC RIGHT.
1520*       88 EOF VALUE 3.
1530*     03 TEMP-FILE-STATUS PIC 9 COMP VALUE 0 SYNC RIGHT.
1540*       88 TEMP-EOF VALUE 2.
1550*     03 BOUNDARY-TYPE PIC 9 COMP VALUE 0 SYNC RIGHT.
1560*       88 BOUNDARY VALUE 1.
1570*     03 MAP-TYPE PIC 9 COMP VALUE 0 SYNC RIGHT.
1580*       88 OUTLINE-TYPE VALUE 1,3,5,7.
1590*       88 SHADE-TYPE VALUE 2,3,6,7.
1600*       88 SEMI-MAP VALUE 4 THRU 7.
1610*
1620*01 SEGMENT-INFO.
1630*   02 START-COLUMN PIC 9(11) VALUE 0 COMP.
1640*   02 MSTART-COLUMN PIC 9(11) VALUE 0 COMP.

```

```

1650* 03 END-COLUMN          PIC S9(11)  VALUE 0  COMP.
1660* 03 MEND-COLUMN        PIC S9(4)    VALUE 0  COMP.
1670* 03 COUNTY-ID         PIC 9(11)    VALUE 0  COMP.
1680* 03 COUNTY REDEFINES COUNTY-ID PIC 9(11) COMP.
1690* 03 COUNTY-SHAPE      PIC 9(11)    VALUE 0  COMP.
1700* 03 NVALUE            OCCURS 200 TIMES PIC 9(11) COMP.
1710* 03 SVALUE            OCCURS 200 TIMES PIC 9(11) COMP.
1720*
1730* 01 SHADE-INFO
1740* 03 MAX-SHADES        PIC 99 VALUE 9 COMP SYNC RIGHT.
1750* 03 SHADE             PIC 9 COMP.
1760* 03 LSHADE           PIC X.
1770* 03 MAX-VALUE        PIC 9(11) VALUE 0 SYNC RIGHT.
1780* 03 MIN-VALUE        PIC 9(11) SYNC RIGHT.
1790* 03 SHADE-INCF      PIC 9(11) VALUE 0 SYNC RIGHT.
1800* 03 SHADE-RANGE     OCCURS 20 TIMES PIC 99 COMP.
1810* 03 OUTLINE-SHADE   PIC 99 COMP.
1820* 03 SHADE-VALUES.
1830* 05 CHAR1            PIC X(4) VALUE IS " ".
1840* 05 CHAR2            PIC X(4) VALUE IS " ".
1850* 05 CHAR3            PIC X(4) VALUE IS " ".
1860* 05 CHAR4            PIC X(4) VALUE IS " ".
1870* 05 CHAR5            PIC X(4) VALUE IS " ".
1880* 05 CHAR6            PIC X(4) VALUE IS "X+ ".
1890* 05 CHAR7            PIC X(4) VALUE IS "NW ".
1900* 05 CHAR8            PIC X(4) VALUE IS "NWS ".
1910* 05 CHAR9            PIC X(4) VALUE IS "DH= ".
1920* 05 CHAR10           PIC X(4) VALUE IS "AVDX".
1930* 03 SHADE-VALUE     REDEFINES SHADE-VALUES.
1940* 05 CHAR             OCCURS 10 TIMES.
1950* 07 CHAR-VALUE      OCCURS 4 TIMES PIC X.
1960*
1970* 01 LABEL-INFO
1980* 03 TYPE-OF-LABELS    PIC 9 COMP VALUE 0 SYNC RIGHT.
1990* 88 LIST-NAMES       VALUE 1,3,5,7.
2000* 88 LABEL-AXIS       VALUE 2,3,6,7.
2010* 88 LABEL-COUNTIES  VALUE IS 4,5,6,7.
2020* 88 LABELS           VALUE 1 THRU 10.
2030* 03 TYPE-OF-LABELS-EXT PIC 9 COMP VALUE 0 SYNC RIGHT.
2040* 88 LABEL-COUNTY-VALUES VALUE 1.
2050* 03 TYPE-LABEL      PIC 99 COMP.
2060* 88 TYPE-IS-NAME-LIST VALUE IS 1.
2070* 88 TYPE-IS-AXIS   VALUE IS 2.
2080* 88 TYPE-IS-ID     VALUE IS 3.
2090* 88 TYPE-IS-DATA   VALUE IS 4.
2091* 88 TYPE-IS-GENERAL VALUE IS 5.
2100* 03 LABEL-PTR       PIC 999 COMP VALUE 0 SYNC RIGHT.
2110* 03 LABEL-START     PIC 999 COMP VALUE 0 SYNC RIGHT.
2120* 03 LABEL-FINISH   PIC 999 COMP VALUE 0 SYNC RIGHT.
2130* 03 NUM-VALUE.
2140* 04 NUMBER-VALUE    PIC 7777.999.
2150* 04 FILLER          PIC X(8) VALUE IS SPACES.
2160* 03 LABEL-VALUE     REDEFINES NUM-VALUE.
2170* 05 LABEL-CHAR      OCCURS 16 TIMES PIC X.
2180*
2190* 01 FILE-MANIPULATIONS.
2200* 03 INPUT-MAP.
2210* 05 MAP-FILE-NAME    PIC X(6).
2220* 05 FILE-IF         PIC X(9).
2230* VALUE IS "/BISZLKQ."
2240* 03 MAP-VALUES.
2250* 05 VAL1            PIC X(6) VALUE IS "ALAMAP".
2260* 05 VAL2            PIC X(6) VALUE IS "FLAMAP".
2270* 05 VAL3            PIC X(6) VALUE IS "GAMAP".
2280* 05 VAL4            PIC X(6) VALUE IS "KENMAP".
2290* 05 VAL5            PIC X(6) VALUE IS "MISMAP".
2300* 05 VAL6            PIC X(6) VALUE IS "NCMAP".
2310* 05 VAL7            PIC X(6) VALUE IS "SCHMAP".
2320* 05 VAL8            PIC X(6) VALUE IS "TENMAP".
2330* 05 VAL9            PIC X(6) VALUE IS "USMAP".
2340* 03 MAP-VALUE1      REDEFINES MAP-VALUES.
2350* 05 MAP-VALUE       OCCURS 9 TIMES PIC X(6).
2360*
2370* 03 DATA-INPUT.
2380* 05 DATA-FILE-NAME  PIC X(6).
2390* 05 FILE-IF1        PIC X(9).
2400* VALUE IS "/BISZLKQ."
2410* 03 DATA-FILES.
2420* 05 DF1             PIC X(6) VALUE IS " ALA".
2430* 05 DF2             PIC X(6) VALUE IS " FLA".
2440* 05 DF3             PIC X(6) VALUE IS " GA".
2450* 05 DF4             PIC X(6) VALUE IS " KEN".
2460* 05 DF5             PIC X(6) VALUE IS " MISS".

```

```

2470*      05 DF6          PTC X(6)  VALUE IS "   NC".
2480*      05 DF7          PTC X(6)  VALUE IS "   SC".
2490*      05 DF8          PTC X(6)  VALUE IS "   TENN".
2500*      05 DF9          PTC X(6)  VALUE IS "   US".
2510*      03 DATA-FILE1 REDEFINES DATA-FILES.
2520*      05 DATA-FILE OCCURS 9 TIMES PTC X(6).
2530*
2540*
2550*
2560*
2570*01 HEADING-INFO.
2580*
2590*      03 STATES.
2600*      05 ALA PTC X(14) VALUE "ALABAMA"
2610*      05 FLA PTC X(14) VALUE "FLORIDA"
2620*      05 GA PTC X(14) VALUE "GEORGIA"
2630*      05 KEN PTC X(14) VALUE "KENTUCKY"
2640*      05 MISS PTC X(14) VALUE "MISSISSIPPI"
2650*      05 NC PTC X(14) VALUE "NORTH CAROLINA"
2660*      05 SC PTC X(14) VALUE "SOUTH CAROLINA"
2670*      05 TENN PTC X(14) VALUE "TENNESSEE"
2680*
2690*      03 STATE-NAMES REDEFINES STATES.
2700*      05 STATE-NAME OCCURS 8 TIMES PTC X(14).
2710*      03 REGION-NAME PTC X(36) VALUE IS
2720*          "THE SOUTH EASTERN REGION OF THE U.S.".
2730*
2740*      03 MAIN-HEADING.
2750*      05 FILLER PTC X(42) VALUE IS SPACES.
2760*      05 HEADER PTC X(17) VALUE IS
2770*          "U.S. DEPT. OF HEW".
2780*
2790*      03 STATE-TITLE.
2800*      05 FILLER PTC X(10) VALUE IS SPACES.
2810*      05 REGION-TITLE
2820*      07 FILLER PTC X(30) VALUE IS SPACES.
2830*      07 FILLER PTC X(14) VALUE IS
2840*          "SHADED MAP OF ".
2850*      07 MAP-TITLE PTC X(36) VALUE IS SPACES.
2860*
2870*      03 LEGENDS.
2880*      05 LEGEND=1.
2890*      07 FILLER PTC X(6) VALUE IS SPACES.
2900*      07 LGND PTC X(6) VALUE IS "LEGEND".
2910*      05 LEGEND=2.
2920*      07 FILLER PTC X(10) VALUE IS SPACES.
2930*      07 SHADES=OF-LEGEND.
2940*          OR LEGEND-SHADES OCCURS 9 TIMES.
2950*          09 LEGEND-SHADE OCCURS 8 TIMES PTC X.
2960*          09 FILLER PTC XX.
2970*      05 LEGEND=3.
2980*      06 FILLER PTC X(10) VALUE IS "MINIMUM ".
2990*      06 FILL=LOWLIM.
3000*      07 SHADE-LOWER-LIMITS OCCURS 9 TIMES.
3010*      09 SHADE=LOWLIM PTC 9(4).999.
3020*      09 FILLER PTC XX.
3030*      05 LEGEND=4.
3040*      06 FILLER PTC X(10) VALUE IS "MAXIMUM ".
3050*      06 FILL=UPLIM.
3060*      07 SHADE-UPPER-LIMITS OCCURS 9 TIMES.
3070*      09 SHADE=UPLIM PTC 9(4).999.
3080*      09 FILLER PTC XX.
3090*      05 LEGEND=5.
3100*      07 FREQ PTC X(9) VALUE IS "FREQUENCY".
3110*      07 FILLER PTC X VALUE IS SPACES.
3120*      07 FREQ-LINE.
3130*      08 FREQ OCCURS 9 TIMES.
3140*      09 FREQUENCY-OUT PTC 7(7)9.
3150*      09 FILLER PTC XX.
3160*
3170*      03 FREQUENCY OCCURS 10 TIMES PTC 9(8) SYNC RIGHT.
3180*
3190*
3200*
3210*
3220*
3230*
3240*
3250*
3260*
3270*
3280*
3290*

```

PROCEDURE DIVISION

```

3300*PROCEDURE DIVISION.
3310******
3320**      *      *      *      *      *      *      *      *      *      *
3330**
3340**      MAIN ROUTINE
3350**
3360**      *      *      *      *      *      *      *      *      *      *
3370******
3380*
3390*
3400*MAIN SECTION.
3410*
3420*INITIALIZATION.
3430*   PERFORM OPEN-FILES.
3440*   PERFORM READ-COUNTY-VALUES.
3450*   PERFORM GET-COUNTY-SHADES.
3460*
3470*PHASE-I.
3480*   PERFORM GET-VALUES-FOR-SEGMENT.
3490*   IF EOF OF MAP GO TO PHASE-II.
3500*   PERFORM BUILD-SEGMENT-OF-MAP.
3510*   IF LINE-COMPLETED PERFORM WRITE-LINE.
3520*   GO TO PHASE-I.
3530*
3540*PHASE-II.
3550*   PERFORM REWIND-MAP-FILE.
3560*   PERFORM WRITE-MAP-FILE
3570*       THRU WRITE-MAP-EXIT.
3580*   IF SHADE-TYPE PERFORM WRITE-LEGEND.
3590*   IF LABELS PERFORM CONTINUE-AND-FINISH-LABELS.
3600*
3610*PHASE-III.
3620*   PERFORM CLOSE-FILES.
3630*   STOP RUN.
3640*
3650******
3660**      *      *      *      *      *      *      *      *      *      *
3670**
3680**      INITIALIZATION ROUTINE
3690**
3700**      *      *      *      *      *      *      *      *      *      *
3710******
3720*
3730*OPEN-FILES SECTION.
3740*
3750*OPEN-FILES-RTN.
3760*   OPEN INPUT REM-IN,OUTPUT REM-OUT.
3770*
3780*QUESTION-1.
3790*   MOVE SPACES TO MESSAGE-1.
3800*   MOVE "WHICH STATE OR REGION?" TO MESSAGE-OUT.
3810*   WRITE MESSAGE-1.
3820*   READ REM-IN AT END NEXT SENTENCE.
3830*   IF TTY-IN EQUALS "ALA"
3840*       MOVE 1 TO MAP-INDEX
3850*   ELSE IF TTY-IN EQUALS "FLA"
3860*       MOVE 2 TO MAP-INDEX
3870*   ELSE IF TTY-IN EQUALS "GA"
3880*       MOVE 3 TO MAP-INDEX
3890*   ELSE IF TTY-IN EQUALS "KY"
3900*       MOVE 4 TO MAP-INDEX
3910*   ELSE IF TTY-IN EQUALS "MISS"
3920*       MOVE 5 TO MAP-INDEX
3930*   ELSE IF TTY-IN EQUALS "NC"
3940*       MOVE 6 TO MAP-INDEX
3950*   ELSE IF TTY-IN EQUALS "SC"
3960*       MOVE 7 TO MAP-INDEX
3970*   ELSE IF TTY-IN EQUALS "TENN"
3980*       MOVE 8 TO MAP-INDEX
3990*   ELSE IF TTY-IN EQUALS "REGION"
4000*       MOVE 9 TO MAP-INDEX
4010*   ELSE MOVE "INVALID STATE NAME"
4020*       TO MESSAGE-OUT
4030*   WRITE MESSAGE-1
4040*   GO TO QUESTION-1.
4050*QUESTION-2.
4060*   MOVE "IS THE MAP TO BE SHADED?" TO MESSAGE-OUT.
4070*   WRITE MESSAGE-1.
4080*   READ REM-IN AT END NEXT SENTENCE.
4090*   IF TTY-IN EQUALS "YES"
4100*       MOVE 2 TO MAP-TYPE
4110*   ELSE IF TTY-IN NOT EQUAL "NO"
4120*       MOVE "BAD RESPONSE" TO MESSAGE-OUT

```

```

4130*      WRITE MESSAGE=1
4140*      GO TO QUESTION=2.
4150*
4160*QUESTION=3.
4170*
4180*      MOVE "IS THE MAP TO HAVE BOUNDRIES OUTLINED?"
4190*      TO MESSAGE-OUT.
4200*      WRITE MESSAGE=1.
4210*      READ REM-IN AT END NEXT SENTENCE.
4220*      IF TTY-IN EQUALS "YES"
4230*      ADD 1 TO MAP-TYPE
4240*      ELSE
4250*      GO TO QUESTION=4.
4260*      MOVE "WHAT SHADE BOUNDRY, DARKEST=9 LIGHTEST=0"
4270*      TO MESSAGE-OUT.
4280*      WRITE MESSAGE=1.
4290*      READ REM-IN AT END NEXT SENTENCE.
4300*      IF TTY-IN EQUALS "0"
4310*      MOVE 0 TO OUTLINE-SHADE ELSE
4320*      IF TTY-IN EQUALS "9"
4330*      MOVE 9 TO OUTLINE-SHADE ELSE
4340*      IF TTY-IN EQUALS "1"
4350*      MOVE 1 TO OUTLINE-SHADE ELSE
4360*      IF TTY-IN EQUALS "2"
4370*      MOVE 2 TO OUTLINE-SHADE ELSE
4380*      IF TTY-IN EQUALS "3"
4390*      MOVE 3 TO OUTLINE-SHADE ELSE
4400*      IF TTY-IN EQUALS "4"
4410*      MOVE 4 TO OUTLINE-SHADE ELSE
4420*      IF TTY-IN EQUALS "5"
4430*      MOVE 5 TO OUTLINE-SHADE ELSE
4440*      IF TTY-IN EQUALS "6"
4450*      MOVE 6 TO OUTLINE-SHADE ELSE
4460*      IF TTY-IN EQUALS "7"
4470*      MOVE 7 TO OUTLINE-SHADE ELSE
4480*      IF TTY-IN EQUALS "8"
4490*      MOVE 8 TO OUTLINE-SHADE ELSE
4500*      MOVE "INVALID SHADE NUMBER" TO MESSAGE-OUT
4510*      WRITE MESSAGE=1
4520*      GO TO QUESTION=3.
4530*
4540*
4550*
4560*QUESTION=4.
4570*
4580*      MOVE "LABELING DESIRED?" TO MESSAGE-OUT.
4590*      WRITE MESSAGE=1.
4600*      READ REM-IN AT END NEXT SENTENCE.
4610*      IF TTY-IN EQUALS "NO"
4620*      GO TO QUESTION=5
4630*      ELSE
4640*      IF TTY-IN NOT EQUAL "YES"
4650*      MOVE "I DONT FOLLOW WHAT YOUR SAYING"
4660*      TO MESSAGE-OUT
4670*      WRITE MESSAGE=1
4680*      GO TO QUESTION=4.
4690*
4700*      MOVE 0 TO TYPE-OF-LABELS.
4710*      MOVE "LABEL NAMES?" TO MESSAGE-OUT.
4720*      WRITE MESSAGE=1.
4730*      READ REM-IN AT END NEXT SENTENCE.
4740*      IF TTY-IN EQUALS "YES"
4750*      ADD 1 TO TYPE-OF-LABELS.
4760*
4770*      MOVE "LABEL AXIS?" TO MESSAGE-OUT.
4780*      WRITE MESSAGE=1.
4790*      READ REM-IN AT END NEXT SENTENCE.
4800*      IF TTY-IN EQUALS "YES"
4810*      ADD 2 TO TYPE-OF-LABELS.
4820*
4830*      MOVE "LABEL COUNTYS IDS?" TO MESSAGE-OUT.
4840*      WRITE MESSAGE=1.
4850*      READ REM-IN AT END NEXT SENTENCE.
4860*      IF TTY-IN EQUALS "YES"
4870*      ADD 4 TO TYPE-OF-LABELS.
4880*
4890*      IF NOT LIST-NAMES GO TO QUESTION=5.
4900*      MOVE "HOW ABOUT COUNTY-VALUES?" TO MESSAGE-OUT.
4910*      WRITE MESSAGE=1.
4920*      READ REM-IN AT END NEXT SENTENCE.
4930*      IF TTY-IN EQUALS "YES"
4940*      MOVE 1 TO TYPE-OF-LABELS-FMT.
4950*

```

```

4960*
4970*QUESTION-5.
4980*
4990*   MOVE SPACES TO MESSAGE-OUT.
5000*   MOVE "DO YOU WANT AN INTERMEDIATE FILE?" TO MESSAGE-OUT.
5010*   WRITE MESSAGE-1.
5020*   READ REM-IN AT END NEXT SENTENCE.
5030*   IF TTY-IN EQUALS "YES" ADD 4 TO MAP-TYPE.
5040*
5050*
5060*END-QUESTIONS.
5070*
5080*   MOVE MAP-VALUE(MAP-INDEX) TO MAP-FILE-NAME.
5090*   MOVE DATA-FILE(MAP-INDEX) TO DATA-FILE-NAME.
5100*   OPEN INPUT MAP-DATA, INPUT COUNTY-IN, OUTPUT MAPFILE.
5110*   OPEN OUTPUT FINALMAP.
5120*   MOVE SPACES TO DATA-FORMAT.
5130*
5140*
5150******
5160*
5170*
5180*READ-COUNTY-VALUES SECTION.
5190*
5200*READ-PTN.
5210*
5220*   READ COUNTY-IN AT END GO TO READ-COUNTY-EXIT.
5230**   MOVE "COUNTY-INDEX " TO MESSAGE-OUT.
5240**   MOVE COUNTY-INDEX-I TO NUMBER-OUT.
5250**   WRITE MESSAGE-1.
5260**   MOVE " COUNTY VALUE " TO MESSAGE-OUT.
5270**   MOVE COUNTY-VALUE TO NUMBER-OUT.
5280**   WRITE MESSAGE-1.
5290**   IF COUNTY-INDEX-I IS GREATER THAN 200
5300**     OR LESS THAN 1 GO TO COUNTY-INDEX-I-ERROR.
5310*
5320*   MOVE COUNTY-VALUE TO NVALUE(COUNTY-INDEX-I).
5330*   ADD 1 TO COUNTER.
5340*   GO TO READ-COUNTY-VALUES.
5350*
5360*
5370*COUNTY-INDEX-I-ERROR.
5380*
5390*   MOVE SPACES TO MESSAGE-OUT.
5400*   MOVE "INVALID COUNTY NUMBER " TO MESSAGE-OUT.
5410*   WRITE MESSAGE-1.
5420*   MOVE "NUMBER OF COUNTIES READ IS" TO MESSAGE-OUT.
5430*   MOVE COUNTER TO NUMBER-OUT.
5440*   WRITE MESSAGE-1.
5450*   GO TO READ-COUNTY-VALUES.
5460*
5470*
5480*READ-COUNTY-EXIT.
5490*
5500*   MOVE "NUMBER OF COUNTIES IS" TO MESSAGE-OUT.
5510*   MOVE COUNTER TO NUMBER-OUT.
5520*   WRITE MESSAGE-1.
5530*   MOVE COUNTER TO NUMBER-OF-COUNTIES.
5540*
5550*READ-EXIT.
5560*
5570*   EXIT.
5580*
5590******
5600*
5610*
5620*GET-COUNTY-SHADES SECTION.
5630*
5640*HOUSE-KEEPING.
5650*
5660*   MOVE 1 TO COUNTY.
5670*   MOVE NVALUE(COUNTY) TO MIN-VALUE.
5680*
5690*
5700*MTN-MAX-PTN.
5710*
5720*   IF NVALUE(COUNTY) IS GREATER THAN MAX-VALUE
5730*     MOVE NVALUE(COUNTY) TO MAX-VALUE
5740*   ELSE IF NVALUE(COUNTY) IS LESS THAN MIN-VALUE
5750*     MOVE NVALUE(COUNTY) TO MIN-VALUE.
5760*
5770*   IF COUNTY IS LESS THAN NUMBER-OF-COUNTIES
5780*     ADD 1 TO COUNTY

```



```

5790*      GO TO MIN-MAX-RTN.
5800*
5810*      COMPUTE SHADE-INCR ROUNDED =
5820*          (MAX-VALUE - MIN-VALUE) / MAX-SHADES .
5830*
5840*      MOVE 1 TO INDEX-IT.
5850*      ADD 1 TO MIN-VALUE.
5860*
5870*
5880* STORE-SHADE-RANGES.
5890*
5900*      COMPUTE SHADE-RANGE(INDEX-IT) ROUNDED =
5910*          SHADE-INCR * INDEX-IT + MIN-VALUE .
5920*
5930*      IF INDEX-IT IS LESS THAN MAX-SHADES
5940*          ADD 1 TO INDEX-IT
5950*          GO TO STORE-SHADE-RANGES.
5960*
5970*      MOVE 1 TO COUNTY.
5980*
5990*
6000* GET-COUNTY-SHADE.
6010*
6020*      MOVE NVALUE(COUNTY) TO COUNTY-VALUE.
6030*      MOVE 1 TO SHADE.
6040*
6050* SHADE-SEARCH.
6060*
6070*      IF COUNTY-VALUE IS LESS THAN SHADE-RANGE(SHADE)
6080*          MOVE SHADE TO SVALUE(COUNTY)
6090*      ELSE IF SHADE IS LESS THAN MAX-SHADES
6100*          ADD 1 TO SHADE
6110*          GO TO SHADE-SEARCH
6120*      ELSE
6130*          MOVE "SHADE-ERROR , COUNTY = " TO MESSAGE-OUT
6140*          MOVE COUNTY TO NUMBER-OUT
6150*          WRITE MESSAGE-1.
6160*
6170*      IF COUNTY IS LESS THAN NUMBER-OF-COUNTIES
6180*          ADD 1 TO COUNTY
6190*          GO TO GET-COUNTY-SHADE.
6200*
6210*
6220* COUNTY-SHADE-EXIT.
6230*
6240*      EXIT.
6250*
6260*
6270*
6280* *****
6290*      * * * * *
6300*
6310*
6320*
6330*
6340* *****
6350*
6360*
6370* GET-VALUES-FOR-SEGMENT SECTION.
6380*
6390*
6400* GET-VALUES-RTN.
6410*
6420*      MOVE END-COLUMN TO START-COLUMN.
6430*      PERFORM NEW-VALUE.
6440*      IF NEW-VALUE-IN IS LESS THAN 2000 GO TO NO-COUNTY-ID.
6450*      SUBTRACT 2000 FROM NEW-VALUE-IN.
6460*      MOVE NEW-VALUE-IN TO COUNTY-ID.
6470**     MOVE "WORKING ON COUNTY" TO MESSAGE-OUT.
6480**     MOVE COUNTY-ID TO NUMBER-OUT.
6490**     WRITE MESSAGE-1.
6500*      IF EOR
6510*          MOVE ZERO TO END-COLUMN
6520*          GO TO GET-VALUES-EXIT.
6530*
6540*      PERFORM NEW-VALUE.
6550*      IF NEW-VALUE-IN GREATER THAN 2000
6560*          MOVE " END-COLUMN ERROR KE " TO MESSAGE-OUT
6570*          MOVE NEW-VALUE-IN TO NUMBER-OUT
6580*          WRITE MESSAGE-1.
6590*
6600*      MOVE NEW-VALUE-IN TO END-COLUMN.
6610*      GO TO GET-VALUES-EXIT.

```

```

6620*
6630*ND-COUNTY-ID.
6640*
6650*   MOVE ZERO TO COUNTY-ID.
6660*   MOVE NEW-VALUE-IN TO END-COLUMN.
6670*   GO TO GET-VALUES-EXIT.
6680*
6690*
6700*
6710*
6720*NEW-VALUE.
6730*
6740*   PERFORM NEW-VALUE-RTN THRU NEW-VALUE-EXIT.
6750*
6760*NEW-VALUE-RTN.
6770*
6780*   IF EOR OR EOF OF MAP
6790*       MOVE ZERO TO NEW-VALUE-IN
6800*       GO TO NEW-VALUE-EXIT.
6810*
6820*   ADD 1 TO INDEX-I.
6830*   IF INDEX-I IS GREATER THAN 8 GO TO NEW-RECORD.
6840*   IF DATA-IN(INDEX-I) = 0 GO TO NEW-VALUE-RTN.
6850*   MOVE DATA-IN(INDEX-I) TO NEW-VALUE-IN.
6860*   GO TO NEW-VALUE-EXIT.
6870*
6880*NEW-RECORD.
6890*
6900*   MOVE ZERO TO NEW-VALUE-IN.
6910*   MOVE ZERO TO INDEX-I.
6920*   READ MAP-DATA RECORD AT END GO TO END-OF-FILE.
6930*   IF NEW-LINE-NO GREATER THAN 9000
6940*       MOVE 0 TO FILE-STATUS OF LABELS-IN
6950*       GO TO END-OF-FILE.
6960*
6970**   MOVE NEW-LINE-NO TO NUMBER-OUT.
6980**   MOVE " READING MAP LINE " TO MESSAGE-OUT.
6990**   WRITE MESSAGE-1.
7000*   IF NEW-LINE-NO IS EQUAL TO LINE-NO
7010*       GO TO NEW-VALUE-RTN.
7020*
7030*   IF LINE-NO = C
7040*       MOVE NEW-LINE-NO TO LINE-NO
7050*       GO TO NEW-VALUE-RTN.
7060*
7070*   ADD 1 TO FILE-STATUS OF MAP.
7080*   GO TO NEW-VALUE-EXIT.
7090*
7100*END-OF-FILE.
7110*
7120*   MOVE 1 TO FILE-STATUS OF MAP.
7130*   MOVE 2 TO TEMP-FILE-STATUS.
7140*
7150*NEW-VALUE-EXIT.
7160*
7170*   EXIT.
7180*
7190*GET-VALUES-EXIT.
7200*
7210*   MOVE SPACES TO DATA-FORMAT.
7220**   MOVE " START-COLUMN " TO MESSAGE-OUT.
7230**   MOVE START-COLUMN TO NUMBER-OUT.
7240**   WRITE MESSAGE-1.
7250**   MOVE " END-COLUMN " TO MESSAGE-OUT.
7260**   MOVE END-COLUMN TO NUMBER-OUT.
7270**   WRITE MESSAGE-1.
7280**   MOVE " COUNTY-ID " TO MESSAGE-OUT.
7290**   MOVE COUNTY-ID TO NUMBER-OUT.
7300**   WRITE MESSAGE-1.
7310*   IF COUNTY-ID IS GREATER THAN C
7320*       MOVE SVALUE(COUNTY) TO COUNTY-VALUE
7330*       MOVE SVALUE(COUNTY) TO COUNTY-SHADE
7340*   ELSE MOVE 0 TO COUNTY-VALUE
7350*       MOVE 0 TO COUNTY-SHADE.
7360*
7370*
7380*
7390*****
7400*
7410*
7420*BUILD-SEGMENT-OF-MAP SECTION.
7430*
7440*

```

```

7450*BUILD-SEGMENT-RTN.
7460*
7470*   IF START-COLUMN = 1000 OR END-COLUMN = 1000
7480*       GO TO BUILD-SEGMENT-EXIT.
7490*   IF START-COLUMN = 0 OR END-COLUMN = 0
7500*       GO TO BUILD-SEGMENT-EXIT.
7510*
7520*   IF START-COLUMN LESS THAN 1000
7522*       AND END-COLUMN IS LESS THAN 1000
7530*       AND COUNTY-ID EQUALS 0
7540*       MOVE 1 TO BOUNDRY-TYPE.
7550*
7560*   IF BOUNDRY GO TO BOUNDRY-RTN.
7570*   IF SHADE-TYPE PERFORM SHADE-RTN.
7580*   IF OUTLINE-TYPE PERFORM OUTLINE-RTN.
7590*   GO TO BUILD-SEGMENT-EXIT.
7600*
7610*
7620*OUTLINE-RTN.
7630*
7640*   COMPUTE MSTART-COLUMN = START-COLUMN - 1000
7650*   COMPUTE MEND-COLUMN = END-COLUMN - 1000
7660*   COMPUTE MSTART-COLUMN = ARS(MSTART-COLUMN).
7670*   COMPUTE MEND-COLUMN = ARS(MEND-COLUMN).
7680*   MOVE OUTLINE-SHADE TO LINE-OUT(MSTART-COLUMN).
7690*   MOVE OUTLINE-SHADE TO LINE-OUT(MEND-COLUMN).
7700*   IF MSTART-COLUMN IS LESS THAN MIN-SHIFT
7710*       MOVE MSTART-COLUMN TO MIN-SHIFT.
7720*
7730*
7740*SHADE-RTN.
7750*
7760*   PERFORM J-K-MODIFICATION.
7770*   PERFORM FILL-SEGMENT.
7780*
7790*
7800*J-K-MODIFICATION.
7810*
7820*   MOVE START-COLUMN TO MSTART-COLUMN.
7830*   MOVE END-COLUMN TO MEND-COLUMN.
7840*   COMPUTE MSTART-COLUMN = START-COLUMN - 1000.
7850*   COMPUTE MSTART-COLUMN = ARS(MSTART-COLUMN).
7860*
7870*   COMPUTE MEND-COLUMN = END-COLUMN - 1000.
7880*   COMPUTE MEND-COLUMN = ARS(MEND-COLUMN).
7890*
7900*   SUBTRACT 1 FROM MEND-COLUMN.
7910*   IF OUTLINE-TYPE ADD 1 TO MSTART-COLUMN.
7920*
7930*
7940*FILL-SEGMENT.
7950*
7960*   PERFORM FILL-SEGMENT-RTN THRU FILL-SEGMENT-EXIT.
7970*
7980*
7990*FILL-SEGMENT-RTN.
8000*
8010*   IF MEND-COLUMN IS EQUAL TO ZERO
8020*       GO TO FILL-SEGMENT-EXIT.
8030*
8040*   MOVE MSTART-COLUMN TO INDEX-II.
8050*   IF INDEX-II IS LESS THAN MIN-SHIFT
8060*       MOVE INDEX-II TO MIN-SHIFT.
8070*
8080**   MOVE COUNTY-VALUE TO COUNTY-SHADE.
8090**   MOVE SPACES TO DATA-FORMAT.
8100**   MOVE MSTART-COLUMN TO MESSAGE-2(1).
8110**   MOVE MEND-COLUMN TO MESSAGE-2(3).
8120**   MOVE COUNTY-ID TO MESSAGE-2(5).
8130**   MOVE COUNTY-VALUE TO MESSAGE-2(6).
8140**   MOVE COUNTY-SHADE TO MESSAGE-2(7).
8150**   WRITE MESSAGE-1.
8160*
8170*
8180*FILL-SEGMENT-LOOP.
8190*
8200*   IF INDEX-II IS GREATER THAN MEND-COLUMN
8210*       GO TO FILL-SEGMENT-EXIT.
8220*
8230*   MOVE COUNTY-SHADE TO LINE-OUT(INDEX-II).
8240*   ADD 1 TO INDEX-II.
8250*   GO TO FILL-SEGMENT-LOOP.
8260*

```

```

R270*
R280*FILL-SEGMENT-EXIT.
R290*
R300*   EXIT.
R310*
R320*
R330*BOUNDRY-RTN.
R340*
R350*   MOVE ZERO TO BOUNDRY-TYPE.
R360*   COMPUTE MSTART-COLUMN = START-COLUMN - 1000.
R370*   COMPUTE MEND-COLUMN = END-COLUMN - 1000.
R380*   COMPUTE MSTART-COLUMN = ABS(MSTART-COLUMN).
R390*   COMPUTE MEND-COLUMN = ABS(MEND-COLUMN).
R400*
R410*FILL-BOUNDRY-LOOP.
R420*
R430*   IF MSTART-COLUMN IS GREATER THAN MEND-COLUMN
R440*     GO TO BOUNDRY-EXIT.
R450*
R460*   IF OUTLINE-TYPE
R470*     MOVE OUTLINE-SHADE TO LINE-OUT(MSTART-COLUMN)
R480*   ELSE
R490*     MOVE OLD-LINE(MSTART-COLUMN) TO LINE-OUT(MSTART-COLUMN).
R500*
R510*   ADD 1 TO MSTART-COLUMN.
R520*   GO TO FILL-BOUNDRY-LOOP.
R530*
R540*BOUNDRY-EXIT.
R550*
R560*   EXIT.
R570*
R580*
R590*BUILD-SEGMENT-EXIT.
R600*
R610*   MOVE ZERO TO COUNTY-SHADE.
R620*   MOVE 0 TO COUNTY-VALUE.
R630*
R640* * * * * *
R650* *****
R660*
R670*
R680*WRITE-LINE SECTION.
R690*
R700*
R710*WRITE-LINE-RTN.
R720*
R730*   IF TEMP-EOF MOVE 3 TO FILE-STATUS OF MAP
R740*     ELSE MOVE 0 TO FILE-STATUS OF MAP.
R750*
R760*   MOVE MAP-OUT TO OLD-LINE.
R770*   WRITE MAP-OUT INVALID KEY GO TO WRITE-RTN-EXIT.
R780*   IF SEMI-MAP
R790*     WRITE SEMI-MAP1 FROM OLD-LINE.
R800*
R810*   MOVE ZEROS TO MAP-OUT.
R820*   MOVE NEW-LINE-NO TO LINE-NO.
R830*
R840*WRITE-RTN-EXIT.
R850*   EXIT.
R860*
R870* * * * * *
R880* * * * * *
R890*
R900*
R910*
R920*
R930* *****
R940*
R950*
R960*REWIND-MAP-FILE SECTION.
R970*
R980*REWIND-RTN.
R990*
R000*   MOVE SPACES TO FINAL-MAPREC.
R010*   MOVE 0 TO CLEAR-MASK-LINE.
R020*   IF SEMI-MAP AND NOT REGION-MAP
R030*     WRITE FINAL-MAPREC BEFORE CHANNEL 1.
R040*   CLOSE MAPFILE.
R050*   OPEN INPUT MAPFILE.
R060*
R070*
R080*
R090*

```

```

9100*WRITE-MAP-FILE SECTION.
9110*
9120*INITIAL-RTN.
9130*
9140*   MOVE 0 TO FILE-STATUS OF MAP.
9150*
9160*
9170*   MOVE 0 TO LINE-CTR.
9180*   MOVE 0 TO CURRENT-LINE.
9190*
9200*
9210**MAP-HEADING.
9220**
9230**   MOVE SPACES TO FINAL-MAPREC.
9240**   WRITE FINAL-MAPREC BEFORE ADVANCING 1 LINE.
9250**   WRITE FINAL-MAPREC FROM MAIN-HEADING
9260**     BEFORE ADVANCING 2 LINES.
9270**   IF STATE=MAP
9280**     MOVE STATE-NAME(MAP-INDEX) TO MAP-TITLE
9290**     MOVE STATE-TITLE TO FINAL-MAPREC.
9300**
9310**   IF REGION=MAP
9320**     MOVE REGION-NAME TO MAP-TITLE
9330**     MOVE REGION-TITLE TO FINAL-MAPREC.
9340**
9350**   WRITE FINAL-MAPREC BEFORE ADVANCING 2 LINES.
9360**   IF MAP-INDEX EQUALS 8
9361**     MOVE SPACES TO FINAL-MAPREC
9362**     WRITE FINAL-MAPREC FROM MAIN-HEADING
9363**     BEFORE ADVANCING 2 LINES.
9370**     MOVE STATE-NAME(MAP-INDEX) TO MAP-TITLE.
9380*
9390*****:CONTROL ROUTINE TO *****
9400*****:WRITE FINAL MAP *****
9410*
9420*
9430*
9440*WRITE-MAP-RTN.
9450*
9460*   ADD 1 TO CURRENT-LINE.
9470*   PERFORM GET-MAP-LINE.
9480*   IF EOF OF MAP GO TO CONTINUE-LABELS.
9490*   IF LABELS PERFORM PROCESS-LABELS
9500*     THRU LABELING-EXIT.
9510*   PERFORM WRITE-MAP-LINE.
9520*   GO TO WRITE-MAP-RTN.
9530*
9540*
9550*CONTINUE-LABELS.
9560*
9570*   MOVE SPACES TO FINAL-MAPREC.
9580*   IF LABELS PERFORM PROCESS-LABELS
9590*     THRU LABELING-EXIT
9600*   ELSE GO TO WRITE-MAP-EXIT.
9610*
9620*   WRITE FINAL-MAPREC BEFORE ADVANCING 1.
9630*   ADD 1 TO CURRENT-LINE.
9640*   IF NOT EOF OF LABELS-IN
9650*     GO TO CONTINUE-LABELS.
9660*   GO TO WRITE-MAP-EXIT.
9670*
9680*
9690*****
9700*
9710*
9720*GET-MAP-LINE.
9730*
9740*   READ MAPFILE AT END MOVE 3 TO FILE-STATUS OF MAP.
9750*   MOVE MAP-INPUT TO MAP-LINE.
9760*   ADD 1 TO LINE-CTR.
9770*   COMPUTE PRESENT-LINE = 0.8 * LINE-CTR + 0.5 *
9780*     COMPUTE NEXT-LINE = 0.8 * (LINE-CTR + 1) + 0.5 *
9790*   IF NEXT-LINE EQUALS PRESENT-LINE
9800*     AND NOT EOF OF MAP
9810*     READ MAPFILE AT END NEXT SENTENCE.
9820*
9830*   IF NEXT-LINE EQUALS PRESENT-LINE
9840*     ADD 1 TO LINE-CTR
9850*     MOVE 0 TO INDEX-I
9860*     IF OUTLINE-TYPE
9870*       PERFORM MERGE-LINES.
9880*
9890*

```

```

9900*MERGE=LINES.
9910*
9920*   ADD 1 TO INDEX-I.
9930*   IF LINE-IN(INDEX-I) IS EQUAL TO OUTLINE-SHADE
9940*     MOVE LINE-IN(INDEX-I) TO LINE-OF-MAP(INDEX-I).
9950*   IF INDEX-I IS LESS THAN 120 GO TO MERGE=LINES.
9960*
9970*
9980******
9990*
10000*
10010*
10020*PROCESS-LABELS.
10030*
10040*   IF EOF OF LABELS-IN GO TO LABELING-EXIT.
10050*   IF CARD-BUFFER-FULL MOVE 0 TO BUFFER-STATUS
10060*   ELSE
10070*     READ MAP-DATA RECORD
10080*     AT END
10090*     MOVE 0 TO TYPE-OF-LABELS
10100*     GO TO END-DATA.
10110*
10120*   IF NEW-LINE IS GREATER THAN 9999
10130*     GO TO END-DATA.
10140*
10150*   IF NEW-LINE IS GREATER THAN CURRENT-LINE
10160*     MOVE 1 TO BUFFER-STATUS
10170*     GO TO LABELING-EXIT.
10180*
10190*   PERFORM GET-LABEL-DATA.
10200*   IF IGNORE-DATA GO TO PROCESS-LABELS.
10210*   IF NO-LABEL-DATA GO TO LABELING-EXIT.
10220*   PERFORM PROCESS-LABEL THRU PROCESS-LABEL-EXIT.
10230*   GO TO PROCESS-LABELS.
10240*
10250*
10260*GET-LABEL-DATA.
10270*
10280*   MOVE 0 TO DATA-STATUS.
10290*   MOVE LABEL-COUNTY-NO TO COUNTY-ID.
10300*   MOVE LABEL-TYPE TO TYPE-LABEL.
10310*   MOVE SPACES TO LABEL-VALUE.
10320*   IF LABEL-LOCATION = 0
10330*     MOVE 2 TO DATA-STATUS
10340*   ELSE IF LIST-NAMES AND TYPE-IS=NAME-LIST
10350*     MOVE VALUE-AREA TO LABEL-VALUE
10360*   ELSE IF LABEL-AXIS AND TYPE-IS=AXIS
10370*     MOVE VALUE-AREA TO LABEL-VALUE
10380*   ELSE IF LABEL-COUNTIES AND TYPE-IS-ID
10390*     MOVE VALUE-AREA TO LABEL-VALUE
10400*   ELSE IF LABEL-COUNTY-VALUES AND TYPE-IS-DATA
10410*     MOVE NVALUE(COUNTY) TO NUMBER-VALUE
10420**   ELSE IF LABEL-FILE AND TYPE-IS-DATA
10430**     MOVE LABEL(COUNTY) TO LABEL-VALUE
10431*   ELSE IF TYPE-IS-GENERAL
10432*     MOVE VALUE-AREA TO LABEL-VALUE
10440*   ELSE MOVE 1 TO DATA-STATUS.
10450*
10460*
10470*PROCESS-LABEL.
10480*
10490*   MOVE 1 TO LABEL-PTR.
10500*   MOVE LABEL-LOCATION TO LABEL-START.
10510*   ADD LABEL-LENGTH , LABEL-START
10520*     GIVING LABEL-FINISH.
10530*
10540*FILL-IN-LABEL.
10550*
10560*   MOVE 1 TO MASK-LINE(LABEL-START).
10570*   MOVE LABEL-CHAR(LABEL-PTR) TO MAP-LINE-OUT(LABEL-START).
10580*   ADD 1 TO LABEL-PTR.
10590*   ADD 1 TO LABEL-START.
10600*   IF LABEL-START LESS THAN LABEL-FINISH GO TO FILL-IN-LABEL.
10610*
10620*PROCESS-LABEL-EXIT.
10630*
10640*   EXIT.
10650*
10660*
10670*END-DATA.
10680*
10690*   MOVE 3 TO FILE-STATUS OF LABELS-IN.
10700*

```

```

10710*LABELING-EXIT.
10720*
10730*   EXIT.
10740*
10750*
10760******
10770*
10780*
10790*WRITE-MAP-LINE.
10800*
10810*   MOVE 3 TO CHAR-PTR.
10820*   MOVE 1 TO ITERATION.
10830*   PERFORM BUILD-LINE-LOOP THRU LAST-ITERATION.
10840*
10850*
10860*BUILD-LINE-LOOP.
10870*
10880*   ADD 1 TO CHAR-PTR.
10890*   IF MASK-LINE(CHAR-PTR) = 1
10900*   GO TO BUILD-LINE-LOOP.
10910*   COMPUTE MCHAR-PTR = CHAR-PTR + MIN-SHIFT -4.
10920*   IF MCHAR-PTR IS LESS THAN 121 AND GREATER THAN 0
10930*   MOVE LINE-OF-MAP(MCHAR-PTR) TO SHADE
10940*   ELSE
10950*   MOVE ZERO TO SHADE.
10960*
10970*   ADD 1 TO SHADE.
10980*   MOVE CHAR-VALIF(SHADE,ITERATION) TO
10990*   MAP-LINE-OUT(CHAR-PTR).
11000*
11010*   IF CHAR-PTR IS LESS THAN 120 GO TO BUILD-LINE-LOOP.
11020*   IF ITERATION IS GREATER THAN 3
11030*   GO TO LAST-ITERATION.
11040*
11050*   WRITE FINAL-MAPREC BEFORE ADVANCING 0 LINES.
11060*   ADD 1 TO ITERATION.
11070*   MOVE 0 TO CHAR-PTR.
11080*   MOVE SPACES TO FINAL-MAPREC.
11090*   GO TO BUILD-LINE-LOOP.
11100*
11110*
11120*LAST-ITERATION.
11130*
11140*   WRITE FINAL-MAPREC BEFORE ADVANCING 1 LINE.
11150*   MOVE ZERES TO CLEAR-MASK-LINE.
11160*
11170*WRITE-MAP-EXIT.
11180*
11190*   EXIT.
11200*
11210*
11220*
11230******
11240*
11250*
11260*
11270*WRITE-LEGEND SECTION.
11280*
11290*WRITE-LEGEND-PTN.
11300*
11310*   MOVE SPACES TO FINAL-MAPREC.
11320*   MOVE 0 TO INDX.
11330*
11340*FREQUENCY-COUNTER.
11350*
11360*   ADD 1 TO INDX.
11370*   MOVE SVALUE(INDX) TO SHADE.
11380*   IF SHADE GREATER THAN 0
11390*   ADD 1 TO FREQUENCY(SHADE).
11400*
11410*   IF INDX IS LESS THAN 200
11420*   GO TO FREQUENCY-COUNTER.
11430*
11440*
11450*LEGEND-TITLE.
11460*
11470*   WRITE FINAL-MAPREC FROM LEGEND-1
11480*   BEFORE ADVANCING 2 LINES.
11490*   MOVE SPACES TO SHADES-OF-LEGEND.
11500*   MOVE SPACES TO FREQ-LINE.
11510*   MOVE 0 TO SHADE.
11520*   MOVE 0 TO COUNTER
11530*   MOVE 1 TO ITERATION.

```



```
12370*
12380* IF INDEX-T IS GREATER THAN 10
12390* GO TO UPLIM-WRITE.
12400*
12410* IF FREQUENCY(INDEX-I) EQUALS 0
12420* ADD 1 TO INDEX-I
12430* GO TO SHADE-UPPERLIMITS.
12440*
12450* SUBTRACT 0.001 FROM SHADE-RANGE(INDEX-I)
12460* GIVING SHADE-UPLIM(INDEX-IT).
12470*
12480* ADD 1 TO INDEX-I.
12490* ADD 1 TO INDEX-II.
12500* GO TO SHADE-LOWERLIMITS.
12510*
12520* UPLIM-WRITE.
12530*
12540* WRITE FINAL-MAPREC FROM LEGEND-4 BEFORE 2.
12550* MOVE 0 TO COUNTER.
12560* MOVE 1 TO SHADE.
12570*
12580* WRITE-FREQUENCY.
12590*
12600* IF FREQUENCY(SHADE) GREATER THAN 0
12610* ADD 1 TO COUNTER
12620* MOVE FREQUENCY(SHADE) TO
12630* FREQUENCY-DIT(COUNTER).
12640*
12650* ADD 1 TO SHADE.
12660* IF SHADE LESS THAN 10
12670* GO TO WRITE-FREQUENCY.
12680*
12690* WRITE FINAL-MAPREC FROM LEGEND-5
12700* BEFORE ADVANCING 2 LINES.
12710*
12720* *****
12730*
12740* CONTINUE-AND-FINISH-LABELS SECTION.
12750*
12760* FINISH-LABELS-RTN.
12770*
12780* MOVE 0 TO FILE-STATUS OF LABELS-IN.
12790*
12800* FINISH-LABELS.
12810*
12820* MOVE SPACES TO FINAL-MAPREC.
12830* PERFORM PROCESS-LABELS THRU LABELING-EXIT.
12840* WRITE FINAL-MAPREC BEFORE ADVANCING 1.
12850* ADD 1 TO CURRENT-LINE.
12860* IF NOT EOF OF LABELS-IN
12870* GO TO FINISH-LABELS.
12880*
12890* LABEL-EXIT.
12900*
12910* EXIT.
12920*
12930* *****
12940* * * * * *
12950* * * * * *
12960* * PHASE III *
12970* * * * * *
12980* * * * * *
12990* *****
13000*
13010*
13020* CLOSE-FILES SECTION.
13030*
13040* CLOSE-FILE-RTN.
13050*
13060* CLOSE MAP-DATA, COUNTY-IN, MAPFILE, FINALMAP, REM-OUT.
13070*
13080* CLOSE-FILE-EXIT.
13090*
13100* EXIT.
13110*
13120*
13130*
```