List of Documentation

Hamlet Evaluation System (HES) Basic Master File, 1969 - 1973
NN3-349-81-001
Records of the Joint Commands (Record Group 349)
Reallocated to Records of the U.S. Forces in Southeast Asia (Record Group 472)

* NARA received two copies of the *Hamlet Evaluation System (HES): Command Manual*

Supplemental Documentation (Available Upon Request)
- National Military Command System Support Center, *Pacification Program Evaluation System (PACPROG): User's Manual*, Number CSM UM 51-68, 30 September 1969
    - This manual includes information pertaining to Hamlet Evaluation System Files (HAMLA) and Hamlet Derived File (HAMDA), which are part of the HES files in RG 330.

The following supplemental documentation was transferred under NN3-349-78-001:

- Civil Operations and Rural Development Support, Reports and Analysis Directorate, *Hamlet Evaluation System Advisors Handbook*, Military Assistance Command, Vietnam, June 1971.
- Civil Operations and Rural Development Support, Reports and Analysis Directorate, *Hamlet Evaluation System (HES): Program R7102P, HES Edit A*, Document No. DAR R70, MM-02, July 1972.
- Civil Operations and Rural Development Support, Reports and Analysis Directorate, *Hamlet Evaluation System (HES): Program R7103P, HES Edit B*, Document No. DAR R70, MM-03, July 1972.
- Civil Operations and Rural Development Support, Reports and Analysis Directorate, *Hamlet Evaluation System (HES): Program R7104P, HES Update*, Document No. DAR R70, MM-04, July 1972.
- Civil Operations and Rural Development Support, Reports and Analysis Directorate, *Hamlet Evaluation System (HES): Program R7105P, Bayesian Score Program*, Document No. DAR R70, MM-05, July 1972.
- Civil Operations and Rural Development Support, Reports and Analysis Directorate, *Hamlet Evaluation System (HES): Program R7106P, Bayesian Merge Program*, Document No. DAR R70, MM-06, July 1972.
- Civil Operations and Rural Development Support, Reports and Analysis Directorate, *Hamlet Evaluation System (HES): Program R7109P, Analysis File Generator*, Document No. DAR R70, MM-07, August1972.
- Civil Operations and Rural Development Support, Reports and Analysis Directorate, *Hamlet Evaluation System (HES): Program R7114P, HES Analysis Question Response Report*, Document No. DAR R70, MM-09, July 1972.
- Civil Operations and Rural Development Support, Reports and Analysis Directorate, *Hamlet Evaluation System (HES): Program R7113P, HES Analysis Summary Report*, Document No. DAR R70, MM-08, July 1972.
- Civil Operations and Rural Development Support, Reports and Analysis Directorate, *Hamlet Evaluation System (HES): Program R7115P, HES Analysis Information Report*, Document No. DAR R70, MM-10, July 1972.
- Civil Operations and Rural Development Support, Reports and Analysis Directorate, *Hamlet Evaluation System (HES): Program R7118P, HES Information Report Program,* Document No. DAR R70, MM-11, July 1972.
- Civil Operations and Rural Development Support, Reports and Analysis Directorate, *Hamlet Evaluation System (HES): Program R7119P, HES Gazetteer File*, Document No. DAR R70, MM-12, July 1972.
- Civil Operations and Rural Development Support, Reports and Analysis Directorate, *Hamlet Evaluation System (HES): Program R7129P, HES Administrative ID Roster*, Document No. DAR R70, MM-17, August 1972.
- Civil Operations and Rural Development Support, Reports and Analysis Directorate, *Hamlet Evaluation System (HES): Program R7151P, HES Revised Summary Report*, Document No. DAR R70, MM-19, August 1972.

- Civil Operations and Rural Development Support, Reports and Analysis Directorate, *Hamlet Evaluation System (HES): Program R7160P, HES Revised Ethnic Minority Affairs Report*, Document No. DAR R70, MM-20, July 1972.
- Civil Operations and Rural Development Support, Reports and Analysis Directorate, *Hamlet Evaluation System (HES): Program R7120P, HES Gazetteer Report*, Document No. DAR R70, MM-13, July 1972.
- Civil Operations and Rural Development Support, Reports and Analysis Directorate, *Hamlet Evaluation System (HES): Program R7124P, HES Hamlet Density/Status Strip*, Document No. DAR R70, MM-14, July 1972.
- Civil Operations and Rural Development Support, Reports and Analysis Directorate, *Hamlet Evaluation System (HES): Program R7126P, Colby Hamlet Density/Status Plot*, Document No. DAR R70, MM-15, August 1972.
- Civil Operations and Rural Development Support, Reports and Analysis Directorate, *Hamlet Evaluation System (HES): Program R7127P, HES Detail Trend Analysis*, Document No. DAR R70, MM-16, July 1972.
- Civil Operations and Rural Development Support, Reports and Analysis Directorate, *Hamlet Evaluation System (HES): Program R7161P, HES Biligual Update Forms*, Document No. DAR R70, MM-21, August 1972.
- Civil Operations and Rural Development Support, Reports and Analysis Directorate, *Hamlet Evaluation System (HES): Program R7167P, HES Variable Model Percent Change Report*, Document No. DAR R70, MM-22, July 1972.
- Civil Operations and Rural Development Support, Reports and Analysis Directorate, *Hamlet Evaluation System (HES): Program R7171P, Hamlet Change Wire Diagram*, Document No. DAR R70, MM-23, August 1972.
- Source Listings and Program Printouts [oversized, 2 boxes]
- Sample printouts of various Vietnam War Computer Systems (e.g. HES Gazetteer Master, HES Master, VNDBA, HES Gazetteer Source Deck, etc) [oversized, 1 box]

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Electronic Records Division (RRE)
August 15, 2022

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User Note

Hamlet Evaluation System (HES), 1969-1973
NN3-349-81-001
Records of the Joint Commands (Record Group 349)
Reallocated to Records of the U.S. Forces in Southeast Asia (Record Group 472)

Original and Converted Files
The agency transferred this Hamlet Evaluation System file (HES.Y6907.Y7302, XMIS 005846) in EBCDIC with variable-length records and binary counters. Because of this format, staff had been unable to fully verify the file and identify the correct documentation.

In July 2022, NARA staff had the capabilities to converted the file to the ASCII character set with variable-length records with record-delimiters. See the following NARA Hamlet Evaluation System (HES) Translation User Notes for more details on the conversion process. With the data converted, staff confirmed the file was made up of multiple record types with different layouts. The documentation originally identified for this file, HES Command Manual (DAR R70-79 CM-01B) and HES Operations Manual (DAR R70-79 OM-01A), did not contain any layouts that perfectly matched the data.

Staff reviewed the various documentation related to HES in both Record Group (RG) 330 and RG 472 to try to identify the documentation for this file. Based on this review, staff determined the agency referred to the file as the HES Basic Master File or Historical HES Master File, identifier R710701. Staff found the corresponding documentation HES Basic Master File Description (DAR R70 MP-01) in the RG 330 HES materials.

According to the HES Basic Master File Description, the file contains 22 different tables (layouts). Appendix B in the HES Basic Master File Description contains the layouts for each table. The record code in positions 10-13 in each record identifies the table or layout.

The question directory tables (QTAB) contains information on the HES question sets. The question directory tables are need to interpret the responses and ratings data in the response and descriptive tables. The USID (geographic identification number) can serve as a primary key to

link the tables of response and descriptive records. For more information about the USID, see the Hamlet Evaluation System (HES) Gazetteer files described below.

For easier access, staff split the converted file per layout creating a file per table. The files are named by the table number listed in appendix B. Except for HES_table_B-01_B-02.txt, the files are field-delimited with pipe (|) delimiters and contain a header row. As noted in the following table, most of the ratings and responses portions of the records are treated as a single field. Users need to refer to the documentation regarding how to interpret those fields.

HES_table_B-01_B-02.txt contains data for two tables, table 1 QTAB Summary Record and table 2 QTAB Question Table Records. Each record has a specific layout therefore NARA did not add field-delimiters. Users need to refer to the documentation for splitting the records into fields.

The following is a list of the files per table:

Historical HES Master (HES Basic Master) File Tables Generated by NARA

File Name	Table #	Table Title	Record Code	# Records, including header	File Size (Bytes)	Notes
HES_table_B-01_B-02.txt	B-01 & B-02	QTAB Summary Record & QTAB Question Table Records	0001 - 0005	5	468	This file contains the summary record and four question table records. Each record has a specific layout. Therefore this file does not have a header row or field delimiters. Users should refer to the Record Layout Forms for field information.
HES_table_B-03.txt	B-03	QTAB Question Description Records	1nnn - 4nnn	188	49845	This file contains the questions and answer options. The questions or answers may span several fields.
HES_table_B-04.txt	B-04	QTAB Model Description Records	5nnn - 8nnn	31	4200	
HES_table_B-05.txt	B-05	QTAB CPE Records	9nnn	667	32153	
HES_table_B-06.txt	B-06	Hamlet Descriptive Record	0101	127992	9168898	
HES_table_B-07.txt	B-07	Hamlet Population/Model Rating Record	0131	343253	26087291	Users may want to split the column Model Ratings into the fields as indicated in the Record Layout Form.
HES_table_B-08.txt	B-08	Hamlet Monthly Question Response Record	0151	333042	20981676	Users may want to split the column Monthly Question Responses into the fields as indicated in the Record Layout Form.
HES_table_B-09.txt	B-09	Hamlet Quarterly Question Response Record	0152	190719	19453331	Users may want to split the column Quarterly Question Responses into the fields as indicated in the Record Layout Form.
HES_table_B-10.txt	B-10	Village Descriptive Record	0201	29590	3637711	
HES_table_B-11.txt	B-11	Village Population/Model Rating Record	0231	74646	6942165	Users may want to split the column Village Ratings into the fields as indicated in the Record Layout Form.
HES_table_B-12.txt	B-12	Village-Only Model Rating Record	0232	61149	3546677	Users may want to split the column Village-Only Model Ratings into the fields as indicated in the Record Layout Form.

Historical HES Master (HES Basic Master) File Tables Generated by NARA

File Name	Table #	Table Title	Record Code	# Records, including header	File Size (Bytes)	Notes
HES_table_B-13.txt	B-13	Village Monthly Question Response Record	0251	58522	2633538	Users may want to split the column Monthly Question Responses into the fields as indicated in the Record Layout Form.
HES_table_B-14.txt	B-14	Village Quarterly Question Response Record	0252	39483	4856381	Users may want to split the column Quarterly Question Responses into the fields as indicated in the Record Layout Form.
HES_table_B-15.txt	B-15	District Descriptive Record	0301	4894	690612	
HES_table_B-16.txt	B-16	District Population/Model Rating Record	0331	9273	908835	Users may want to split the column Model Ratings into the fields as indicated in the Record Layout Form.
HES_table_B-17.txt	B-17	Province Descriptive Record	0401	1253	228222	
HES_table_B-18.txt	B-18	Province Population/Model Rating Record	0431	2043	200295	Users may want to split the column Model Ratings into the fields as indicated in the Record Layout Form.
HES_table_B-19.txt	B-19	MR Descriptive Record	0501	173	31294	
HES_table_B-20.txt	B-20	MR Population/Model Rating Record	0531	173	17895	Users may want to split the column Model Ratings into the fields as indicated in the Record Layout Form.
HES_table_B-21.txt	B-21	RVN Descriptive Record	0601	44	9816	
HES_table_B-22.txt	B-22	RVN Population/Model Rating Record	0631	44	4608	Users may want to split the column Model Ratings into the fields as indicated in the Record Layout Form.

In addition to the files per table, NARA will preserve the converted full file. In the full file, the records are not necessarily organized by table. It appears most of the response and descriptive records are sorted by USID. Researchers can use the converted full file to view the records in the order in which the agency transferred the file and gleam any other relationship between the records. Details for the converted full file:

File Name	# Records	File Size (Bytes)	Format
HES_Y6907_Y7302.txt	1277164	93696723	ASCII character set with fixed-length fields and variable-length records with record-delimiters (i.e. a text file)

NARA will also continue to preserve the original file as transferred by the agency:

File Name	XMIS #	# Records	File Size (Bytes)	Format
HES.Y6907.Y7302	005846	1277164	92419557	EBCDIC character set with fixed-length fields and variable-length records with binary counters

Date Coverage of File
The QTAB Summary Record has the date January 1973. However, the response and descriptive files contain records covering a single month up to several months between July 1969 to January 1973.

Additional Documentation and Related Data Files
There is additional documentation and data files relating to the Hamlet Evaluation System in other accessions.

The Hamlet Evaluation System Files (NN3-330-75-141) in Record Group 330 (Records of the Office of the Secretary of Defense) consist of:
- Hamlet Evaluation System Files (HAMLA), 1967-1969
- Hamlet Evaluation System 1970 (HES70), 1969-1970
- Hamlet Evaluation System 1971 (HES71), 1971-1974
- All Derived Hamlet Evaluation System (ADHES), 1969-1974
- Vietnam Special Studies Group (VSSG), 1971-1974

The documentation associated with these files includes:

- International Business Machines Corporation, prepared for the National Military Command System Support Center (NMCSSC), *Consolidated Southeast Asia File Descriptions: Book III: ADHES70, HAMLA, HES70, HES71, QHES70, VSSG*, 30 September 1973.

- MACCORDS/RAD, *User's Guide to the Hamlet Evaluation System 1970 (HES/70)*, February 1970.

- CORDS, Reports and Analysis Directorate, Headquarters, Military Assistance Command, Vietnam, *Summary Report: HES70*, 31 January 1971

- CORDS, Reports and Analysis Directorate, Headquarters, Military Assistance Command, Vietnam, *Hamlet Evaluation System Advisors Handbook*, June 1971.

- District Evaluation System (DES) Operations Manual

- District Evaluation System Program Maintenance Manual

The Hamlet Evaluation System (HES) Gazetteer files are part of the South Vietnamese National Police Force Counterinsurgency Files (NPIASS) (NN3-349-79-002) in Record Group 472 (Records of the U.S. Forces in Southeast Asia). They consist of three files:

- Hamlet Evaluation System (HES) Gazetteer
- Hamlet Evaluation System/Viet Cong Infrastructure (HES/VCI) Gazetteer
- Hamlet Evaluation Gazetteer Source Record

The records in the gazetteer files contain Corps Region, Province, District, Village, and/or Hamlet coded fields (which also makes up the United States Identification Number (USID number)); corresponding Province, District, Village, and/or Hamlet name fields; population numbers; ratings; and UTM coordinates. The HES gazetteer files are a possible source for the meanings for the District, Village, and Hamlet codes (USID number). For more details, see the supplementary user note "Relationship between Gazetteer Files with other Hamlet Evaluation System Files" filed with the documentation for the gazetteer files.

Lynn Goodsell, Archivist
Electronic Records Division
August 17, 2022

NARA Hamlet Evaluation System (HES) Translation User Notes

"Extended Binary Coded Decimal Interchange Code is an eight-bit character encoding used mainly on IBM mainframe and IBM midrange computer operating systems. It descended from the code used with punched cards and the corresponding six-bit binary-coded decimal code used with most of IBM's computer peripherals of the late 1950s and early 1960s."[1]

The HES data was encoded as plain EBCDIC, with variable record lengths. Data encoded as "plain" EBCDIC is translated into UTF-8 using Code Page 0037[2].

General Data Conversion Process

All files were converted using the Python programming language and Linux command line tools.

The first step is the conversion of the EBCDIC encoded file to a hexadecimal representation of the data using the following Linux command (using the HES.Y6907.Y7302 data file as an example):

xxd[3] -p HES.Y6907.Y7302 > HES.Y6907.Y7302.txt

The xxd program automatically inserts line breaks into the file, which are removed with:

sed[4] ':a;N;$!ba;s/\n//g' HES.Y6907.Y7302.txt

The first 8 bytes of the file were then removed; these bytes represented magnetic tape markers.

tail[5] -c +9 HES.Y6907.Y7302.txt

At this point the data file consists of one long string of hexadecimal characters, with no line breaks in the file. Line breaks in these files were identified by magnetic tape marks, which appear as a recognizable pattern in the files. Each existing tape mark was replaced by a line break with the following command (using 004a0000 as a representative tape mark):

sed -i "s/004a0000/\n/g" HES.Y6907.Y7302.txt

Once the existing tape marks have been identified and replaced by a line break, the file should contain the correct number of lines. However, since the data file consists of nineteen different record lengths, the file must now be sorted according to line length, and then broken up into separate files, one for each unique line length.

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[1]   https://en.wikipedia.org/wiki/EBCDIC
[2]   https://unicode.org/Public/MAPPINGS/VENDORS/MICSFT/EBCDIC/CP037.TXT
[3]   https://linux.die.net/man/1/xxd
[4]   https://linux.die.net/man/1/sed
[5]   https://en.wikipedia.org/wiki/Tail_(Unix)

Sorting the file by line length was done with:

cat HES.Y6907.Y7302.txt | awk '{ print length, $0 }' | sort -n -s | cut -d" " -f2- > HES.Y6907.Y7302_sorted.txt

At this point the file was manually split into individual files. Each individual file was converted to ASCII from EBCDIC according to the record layout defined in the agency documentation.

The file is now complete. The conversion process was verified by comparing the translated data to the tape dumps printed in the agency documentation, and by comparing the number of records in each file with the NARA created documentation.

Note on Documentation

The original version of the *Hamlet Evaluation System (HES): Basic Master File Description* (January 1972) is located as part of the supplemental documentation for the Hamlet Evaluation System files in the Records of the Office of the Security Defense in Record Group 330 (NN3-330-75-141).   When NARA determined this manual contained the documentation for the Hamlet Evaluation System (HES) files that are part of the Records of the U.S. Forces in Southeast Asia (Record Group 472) (NN3-349-81-001), they placed a copy of the manual with the documentation for that file.

NARA received the *Hamlet Evaluation System (HES): Basic Master File Description* (January 1972) with the last few pages missing.

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Reference Branch
Electronic Records Division (RRE)
July 26, 2022

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CIVIL OPERATIONS AND RURAL DEVELOPMENT SUPPORT
RESEARCH AND ANALYSIS DIRECTORATE

January 1972

AMLET EVALUATION SYSTEM (HES)

ACV
Document Number
AR R7∅
P-∅1
Basic Master File Description

MILITARY

ASSISTANCE
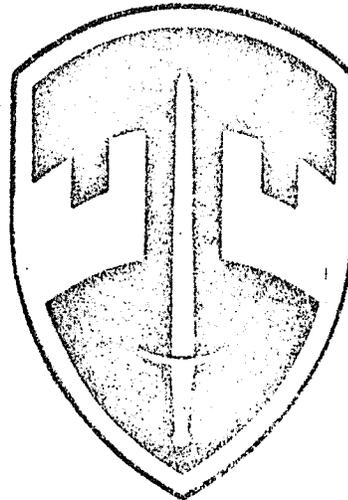
COMMAND

VIETNAM

HEADQUARTERS
MILITARY ASSISTANCE COMMAND, VIETNAM

HAMLET EVALUATION SYSTEM (HES)

January 1972

MACV Document No.
DAR R7Ø
MP-Ø1
Basic Master File Description

Prepared for
Research and Analysis Directorate
Office of the Assistant Chief of Staff
Civil Operations and Rural Development Support

ACKNOWLEDGEMENT

ABSTRACT

The question directory table (QTAB) is described. The QTAB is written onto all HES master files. The various record types contained in the QTAB module are discussed. A synopsis of the HES system and the data elements that make up the HES QTAB are provided in appendixes.

iii

CONTENTS

HAMLET EVALUATION SYSTEM (HES)

BASIC MASTER FILE DESCRIPTION

1. <u>INTRODUCTION</u>. The ability to add and delete questions from the
HES questionnaire as required without major program modifications was
a stated aim in the file design for HES. In order to accomplish such
"alterations" in a systematic and efficient fashion, certain control fea-
tures became a necessary component of system design. Central to these
control features is the question directory table (QTAB) of current HES
questions and models. Written onto all HES master files, this table
should be referred to by each program which requires question and model
level data, and will serve as a pointer to each question and model con-
tained in the HES master file. A HES system synopsis is contained in
appendix A.

2. <u>QTAB DESIGN AND DESCRIPTION</u>.

    a. The QTAB is actually a module, or set of records, which describes
the current composition of the HES question set and those portions of the
HES file directly related to the question set. The various record types
contained in the QTAB module are discussed in the following paragraphs.
The data elements that make up the HES QTAB and data records are de-
scribed in the tables of appendix B.

    (1) QTAB Summary Record.

        HES is subdivided into four groups of questions: Village monthly,
village quarterly, hamlet monthly, and hamlet quarterly. The first or
summary record in the HES QTAB contains the file date and summary
counts of the number of active and inactive topic groups, the number of
active and inactive questions, and the total of these four counts for each
of the four major question groupings. In addition, the record also con-
tains summary counts of the number of active and inactive models. The
counts provided in this record are utilized as delimiters in reading and
tabulating data elements stored in the QTAB directory table.

    (2) QTAB Detail Records.

        Four detail records, one for each of the four question groups,
follow the QTAB summary record. The detail records contain the code

1

letters of the topic groups each of which is followed by the high response to all questions in the topic group (8 and 9 responses are not considered as they are valid responses for all questions). When questions are deleted, the high response for that question is replaced by an asterisk. The four types of detail records are:

(a) Village Monthly Question Table

(b) Village Quarterly Question Table

(c) Hamlet Monthly Question Table

(d) Hamlet Quarterly Question Table

(3) QTAB Question Description Records.

The QTAB description records, one record for each question, were added to the basic master file subsequent to the initial file design. Consequently, the records duplicate some information given in the detail records previously described, particularly the relative position, alphanumeric code, and high response for each question in the HES system. In addition, the record also contains the narrative of the question item and each of its applicable responses.

(4) QTAB Model Description Records.

The QTAB description records consist of one record for each HES model. Each record contains the name of the model (English/Vietnamese), an index to the relative position of the model rating, and the five digit alphanumeric code of the model rating. The record also contains the code letters of the questions from which each level 1 model rating is derived, the code letters of the level 1 models from which level 2 model ratings are aggregated, the code letters of the level 1 and level 2 models from which level 3 model ratings are aggregated, the code letters of the level 3 models from which level 4 model ratings are aggregated, and finally the code letters of the level 3 and level 4 models from which the level 5 model rating is aggregated.

(5) QTAB Conditional Probability Estimate Records.

The QTAB conditional probability estimate (CPE) records, one record for each question response used in a level 1 model, contain the level 1 model number, the question code and response, and the conditional

2

probability estimates (A, B, C, D, E) associated with the model number, question code, and question response.

b. The QTAB will be organized in the basic sequence as described above. Each of the record types will be sorted into increasing sequence by record code. A new QTAB will be written on the basic master file each month during the master file update procedure. During those months when the QTAB remains unchanged, the old QTAB will simply be re-written with the new stop date. If QTAB changes are required to reflect the addition/deletion of questions or models, a new QTAB will be generated from the updated QTAB card deck and copies onto the HES master file. Historical HES questions and models will have to be aligned to match the updated QTAB. This procedure ensures that the QTAB will be current for HES questions and models as of any given processing month.

APPENDIX A

HES SYSTEM SYNOPSIS

APPENDIX A

HES SYSTEM SYNOPSIS

MODEL RATING

A one-character code for each model rating according to the category designators A, B, C, D, E, N.

LEVEL 5 MODEL RATING
   HES Rating - Derived from security and community development model ratings; also includes category 'V'.
LEVEL 4 MODEL RATING
   Security - Derived from political and military model ratings.
LEVEL 3 MODEL RATING
   Military - Derived from enemy military, friendly military, and impact of military activity model ratings.
   Political - Derived from enemy political and friendly political model ratings.
   Community Development - Derived from friendly political, political programs, social programs, and economic activity model ratings.
LEVEL 2 MODEL RATING
   Enemy Military - Derived from enemy military presence and enemy military activity model ratings.
   Friendly Military - Derived from friendly military activity, friendly military presence, and PSDF activity model ratings.
   Enemy Political - Derived from enemy political presence and enemy political activity model ratings.
   Friendly Political - Derived from administration, law enforcement, and political mobilization model ratings.
   Political Programs - Derived from development assistance, land tenure, PSDF activity, information/PSYOPS, and RD cadre model ratings.
   Social Programs - Derived from public health, education, and social welfare model ratings.
LEVEL 1 MODEL RATING
   Enemy Military Presence - Derived from questions concerning nearby enemy military forces, base areas, staging areas, supply caches, defensive works, etc.
   Enemy Military Activity - Derived from questions concerning the frequency and seriousness of enemy military activity directed against friendly security forces and/or impacting on the local inhabitants.

Impact of Military Activity - Derived from questions concerning civilian casualties, property damage, creation of refugees, troop misconduct, and general constraints due to lack of adequate security.

Friendly Military Presence - Derived from questions concerning effectiveness of local security force operations, adequacy of communication and warning systems, and availability of rapid support from external forces when needed.

Friendly Military Activity - Derived from questions concerning contact with enemy forces, civilian casualties, property damage, and hamlet security (day and night).

Law Enforcement - Derived from questions concerning the presence of National Police and degree of law and order maintained by local security forces.

PSDF Activity - Derived from questions concerning organization and training of PSDF, arming of PSDF, local participation in PSDF, and unit effectiveness.

Enemy Political Presence - Derived from questions concerning presence and degree of legitimacy of the VCI, enemy taxation, and support given to the enemy by residents.

Enemy Political Activity - Derived from questions concerning the frequency and seriousness of enemy terrorist and propaganda activities directed toward local residents and the GVN political apparatus.

Administration - Derived from questions concerning the presence or absence of GVN officials.

RD Cadre - Derived from questions concerning RD cadre presence, popular participation in RD activities, and favorable impact on local administration.

Information/Psyops - Derived from questions concerning local contact with the GVN message as delivered by varied media.

Political Mobilization - Derived from questions concerning local participation in enemy and/or friendly organizations or activities.

Public Health - Derived from questions concerning the accessibility and quality of GVN-sanctioned public health services.

Education - Derived from questions concerning accessibility and utilization of existing educational resources at the hamlet and village level.

Social Welfare - Derived from questions concerning welfare needs in relation to welfare activities.

Development Assistance - Derived from questions concerning GVN-sponsored development assistance activity (economic improvement programs, public works projects, self-development projects, etc.), and local participation in and acceptance of such assistance.

Economic Activity - Derived from questions concerning commercial activity, ownership of private property, and access to motorized transportation.

Land Tenure - Derived from questions concerning local ownership of land, land cultivation, and presence and activity of Land Reform Committees.

RATING CATEGORY

This field is a one-character alphabetic code. The codes are related to a computed numerical score according to the following criteria:

A - 5.00 to 4.50 (Best)
B - 4.49 to 3.50 (Good)
C - 3.49 to 2.50 (Acceptable)
D - 2.49 to 1.50 (Marginal)
E - 1.49 to 1.00 (Worst)

In addition, the following ratings may be computed:

N - Not Evaluated

Assigned to any Level 1 model if,

(1) Minimum number of questions was not answered:

(2) $\sum_{i=A}^{E} [P(i) - 0.2]^2 \leq 0.03$

Assigned to level 2, 3, 4, 5 models by decision table

V - VC CONTROLLED

Assigned to HES rating model only if question HMB01 has response 1 or 2.
Score is not computed for one category

X - ABANDONED

HAMLET RATINGS
Hamlet ratings are computed from responses to questions in each level 1 model.

VILLAGE RATINGS
Village ratings are computed as population weighted sums of the hamlet scores.

VILLAGE-ONLY RATINGS
Village-only ratings are computed the same as hamlet ratings using only the village questions in each level 1 model.
DISTRICT RATINGS
District ratings are computed as the population-weighted sums of the hamlet and village-only scores.
PROVINCE RATINGS
Province ratings are computed as the population-weighted sums of the hamlet and village-only scores.
MR RATINGS
MR ratings are computed as the population-weighted sums of the hamlet and village-only scores.
RVN RATINGS
RVN ratings are computed as the population-weighted sums of the hamlet and village-only scores.

TOPIC GROUPS

Topic groups are sets of HES questions organized by topic with a maximum of ten questions per topic group. Thirty-four groups comprise the total HES question set. Following is a list of topic groups within each reporting cycle.

HAMLET MONTHLY
    MA - General
    MB - Enemy Activities
    MC - Friendly Activities
    MD - Impact of Military Action
    MZ - One-Time Questions
HAMLET QUARTERLY
    A - General
    B - Enemy Presence
    C - Friendly Security
    D - Law Enforcement
    E - Administration
    F - Political
    G - Information/Psyops
    L - Economic Activity
    N - Development Projects
    P - Public Health
    R - Education
    S - Social Welfare
    Z - Background

VILLAGE MONTHLY
    MB - Enemy Activities
    MC - Friendly Activities
    MZ - One-Time Questions
VILLAGE QUARTERLY
    B - Enemy Presence
    C - Friendly Security
    D - Law Enforcement
    E - Administration
    F - Political
    G - Information/Psyops
    L - Economic Activity
    N - Development Projects
    P - Public Health
    R - Education
    T - Land Tenure
    V - Agriculture
    Z - Background

POPULATION

HAMLET. Population of hamlet in the HES data base; carried in three categories:

1. Total - The sum of permanent and temporary hamlet population.
2. Temporary - Population that has recently moved into the hamlet (most likely for security reasons) and will probably move out when conditions warrant (i.e., refugees).
3. Permanent - Population whose normal place of residence is in the hamlet.

NON-HAMLET POPULATION. Left justified 40-character statement explaining why population is not included in hamlet population.

VILLAGE. Population of village in the HES data base; carried in five categories:

1. Total - The sum of non-hamlet and hamlet population.
2. Non-Hamlet - Population not included in hamlet population.
3. Hamlet - The sum of total population for all hamlets in the village.
4. Temporary Hamlet - The sum of temporary population for all hamlets in the village.
5. Permanent Hamlet - The sum of permanent population for all hamlets in the village.

DISTRICT. Same as village population except sums carried to district level for all five categories.

PROVINCE. Same as district population except sums carried to province level for all five categories.

MR. Same as province population except sums carried to MR level for all five categories.

RVN. Same as MR population except sums carried to RVN level for all five categories.

IDENTIFICATION

USID. A nine-digit field for each hamlet, village, district, province and MR.

RECORD CODE. A four-digit field identifying each HES data record.

✓ '0101'	Hamlet Descriptive Record
'0131'	Hamlet Population/Model Rating Record
'0151'	Hamlet Monthly Response Record
'0152'	Hamlet Quarterly Response Record
'0201'	Village Descriptive Record
'0231'	Village Population/Model Rating Record
'0232'	Village-Only Model Rating Record
'0251'	Village Monthly Question Record
'0252'	Village Quarterly Question Record
'0301'	District Descriptive Record
'0331'	District Population/Model Rating Record
'0401'	Province Descriptive Record
'0431'	Province Population/Model Rating Record
'0501'	MR Descriptive Record
'0531'	MR Population/Model Rating Record
'0601'	RVN Descriptive Record
'0631'	RVN Population/Model Rating Record

ACTIVITY CODE. A one-digit number indicating whether the hamlet, village, district, province, MR, or country records are active (0) or inactive (1).

NAME. Left justified, 20-character name for hamlet, village, district and province.

UTM COORDINATES. An eight-character field consisting of two-character alpha grid square identification, three-digit abscissa in tenths of kilometers, and three-digit ordinate in tenths of kilometers. Identifies geographic location of hamlet.

GVN SERIAL NUMBER. A four-character field, unique by provinces, for each hamlet recognized by the GVN.

CATEGORY. A one-digit alphabetic field indicating the status of each geopolitical level. This field will either contain the HES rating (A, B, D, E, V, N) or '*' if deleted or 'X' if abandoned.

A-7

FLAGS. Nine hamlet level and eight village level one-digit numbers specifying certain characteristics applicable to selected hamlets and villages as follows:

HAMLET FLAGS	DESCRIPTION

Position
1   Urban/rural hamlet
Set with response to HQZ01
Value 0=Rural hamlet
         1=Urban hamlet
         8=Not applicable
         9=Unknown/unable to judge

2   District capital hamlet
Set with type 1 transaction card
Value 1=District capital hamlet
         9=Not district capital hamlet

3   Province capital hamlet
Set with type 1 transaction card
Value 1=Province capital hamlet
         9=Not province capital hamlet

4   Not used

5   Village administrative center
Set with response to HQZ06
Value 0=Not the village administrative center
         1=Village administrative center
         8=Not applicable
         9=Unknown/unable to judge

6   Not used

7   Not used

8   Refugee camp
Set with type 1 transaction card
Value 0=Non-normalized camp
         1=Normalized camp
         2=Non-norm/norm camp
         9=Not a refugee camp

9   RTV hamlet (return to village hamlet)
Set with type 1 transaction card
Value 0=Return to village hamlet
         9=Not a return to village hamlet

VILLAGE FLAGS   DESCRIPTION

Position

1   Urban/rural village
                 System sets flag depending on the distribution
                 of hamlet urban and rural population
                 Value 0=Rural village (more than 50% of popu-
                          lation is rural)
                       1=Urban village (more than 50% of popu-
                          lation is urban)
                       9=Neither urban or rural

2   Revolutionary committee
                 Set with type 1 transaction card
                 Value 1=Elected
                       2=Appointed
                       9=Not a revolutionary committee village

3   District capital village
                 Set with type 1 transaction card
                 Value 1=District capital village
                       9=Not district capital village

4   Province capital village
                 Set with type 1 transaction card
                 Value 1=Province capital village
                       9=Not province capital village

5   Not used
6   Not used
7   Not used
8   Not used

ADMINISTRATIVE ID. A nine-digit numeric field containing the USID
of the administrative unit.

    Hamlet Level Codes are:
        CPPOOOOOO = Not reported/abandoned
        CPPDDOOOO = Not censused
        CPPDDVVOO = If Admin ID equal USID, in place
        CPPDDVVOO = If Admin ID not equal USID, censused with (Admin
                    ID)
    Village Level Codes are:
        CPPDDVVHH = USID of the village administrative center

UNIT SUMS

VILLAGE
    Hamlets - total number of hamlets in the village.

A-9

DISTRICT
    Hamlets - total number of hamlets in the district.
    Villages - total number of villages in the district.
    VNHP - total number of villages reporting non-hamlet population.
PROVINCE
    Hamlets - total hamlets in the province.
    Villages - total villages in the province.
    VNHP - total villages with non-hamlet population in the province.
    Districts - total districts in the province.
MR
    Hamlets - total hamlets in the MR.
    Villages - total villages in the MR.
    VNHP - total villages with non-hamlet population in the MR.
    Districts - total districts in the MR.
    Provinces - total provinces in the MR.
RVN
    Hamlets - total hamlets in RVN.
    Villages - total villages in RVN.
    VNHP - total villages with non-hamlet population in RVN.
    Districts - total districts in RVN.
    Provinces - total provinces in RVN.
    MR - total MRs in RVN.

CAPITALS

VILLAGE
    Name - left justified 20-character name of village administrative
    center.
    USID - two-digit hamlet ID of village administrative center.
    UTM - coordinates of hamlet that is village administrative center.
DISTRICT
    Name - left justified 20-character name of district capital.
    USID - full nine-digit USID number of district capital.
    UTM - coordinates of district capital. Will normally reflect center
    of population.
PROVINCE
    Name - left justified 20-character name of province capital.
    USID - nine-digit USID number of province capital or district in
    which capital is located.
    UTM - coordinates of hamlet that is village administrative center.

ADVISORS

DISTRICT SENIOR ADVISOR

A-10

Rank/Name. Left justified. 30-character rank and name of the
current DSA. Field is left blank if no DSA is assigned.

DEROS. Data of departure from current assignment; given as nu-
merical day, month, and year, i.e., 31 October 1971.

PROVINCE SENIOR ADVISOR

Rank/Name. Left justified, 30-character rank and name of the cur-
rent PSA. Field is left blank if no PSA is assigned.

DEROS. Date of departure from current assignment; given as nu-
merical day, month, and year, i.e., 31 October 1971.

POPULATION/UNIT CHANGES

DISTRICT

Additions. Number of hamlets, villages, hamlet population and
village population added to district.

Deletions. Number of hamlets, villages, hamlet population and
village population deleted from district.

PROVINCE

Additions. Same as district additions plus number of districts and
district population added to province.

Deletions. Same as district deletions plus number of districts and
district population deleted from province.

MR

Additions. Province level changes plus number of provinces and
province population added to MR.

Deletions. Province level changes plus number of provinces and
province population deleted from MR.

RVN

Additions. Number of hamlets, villages, districts, provinces, and
corps and respective populations added to RVN.

Deletions. Number of hamlets, villages, districts, provinces, and
corps and respective populations deleted from RVN.

A-11

APPENDIX B

DATA ELEMENTS OF THE HES BASIC MASTER FILE

LIST OF TABLES

DATA ELEMENTS OF THE HES BASIC MASTER FILE

TABLE B-1   QTAB SUMMARY RECORD

FIELD NAME	CHARACTERS	POSITION	VALUES	SOURCE
USID	9	1-9	SPACE	SYSTEM
Record Code	4	10-13	0001	SYSTEM
Record Start Date	4	14-17	YYMM	SYSTEM
Record Stop Date	4	18-21	YYMM	SYSTEM
Activity Code	1	22	0=ACTIVE 1=INACTIVE	SYSTEM
Revision Number	3	23-25	'000'	SYSTEM
Village Monthly Question Summary Statistics[1]	15	26-40	NUMERIC	SYSTEM
Village Quarterly Question Summary Statistics[1]	15	41-55	NUMERIC	SYSTEM
Hamlet Monthly Question Summary Statistics[1]	15	56-70	NUMERIC	SYSTEM
Hamlet Quarterly Question Summary Statistics[1]	15	71-85	NUMERIC	SYSTEM
Model Summary Statistics[2]	9	86-94	NUMERIC	SYSTEM

NOTE 1. Question statistics are subdivided into five three-character fields

    A. Total number of characters, active and inactive
    B. Count of the number of active topic groups
    C. Count of the number of inactive topic groups
    D. Count of the number of active questions
    E. Count of the number of inactive questions

NOTE 2. Model statistics are subdivided into three three-character fields

    A. Total number of models, active and inactive
    B. Count of the number of active models
    C. Count of the number of inactive models

RECORD LAYOUT FORM

SYSTEM NAME: Hamlet Evaluation System (HES)   EFFECTIVE DATE: January 1, 1971

Record Name	Base	1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0

QTAB Summary Record

Blank	Record Code	Dates Start	Dates Stop	Activity	Rev Number	Village Char	Active Topics	Inact. Topics	Monthly Question Totals Active Quest.	Inact. Quest.	Char	Village Qtrly Quest- Active Topics	Inact. Topics
	0 0 0 1	Y Y M M	Y Y M M	0 0 0	0 1 7	0 0 3	0 0 0 0	1 4	0 0 0 0	0 9 5	0 1 3	0 0 0 0	

ion Totals Act. Ques	Inact. Ques	Char	Active Topics	Inact. Topics	Active Quest	Inact. Ques	Char	Hamlet Quarterly Question Totals Active Topics	Inact. Topics	Active Ques	Inact. Ques	Total	Model Totals Active	Inact.
8 1	0 0	1 0 3 5	0 0 5	0 0 0 0 0 3	0 0 0 0 0 7 4	0 1 3	0 0 0 0 0 5 9	0 0 2	0 3	0 0 3	0 0 0 0 0	H E S / 7 C

M A S T E R F I L E

1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0

MACCORDS Form 28

DATA ELEMENTS OF THE HES BASIC MASTER FILE

TABLE B-2   QTAB QUESTION TABLE RECORDS (ONE RECORD FOR VM, VQ, HM, H

FIELD NAME	CHARACTERS	POSITION	VALUES	SOURCE
USID	9	1-9	SPACE	SYSTEM
Record Code	4	10-13	'0002' THRU '0005'	SYSTEM
Record Start Date	4	14-17	YYMM	SYSTEM
Record Stop Date	4	18-21	YYMM	SYSTEM
Activity Code	1	22	0=ACTIVE 1=INACTIVE	SYSTEM
Question Data	VARIABLE	23-N	ALPHANUMERIC	SYSTEM
Topic Group 1				
Code Letter	1	23	ALPHA	HANDBOOK
Maximum Response[1] Q11	1	24	NUMERIC	HANDBOOK
Maximum Response Q12	1	25	NUMERIC	HANDBOOK
.				
.				
.				
.				
.				
Topic Group 2				
Code Letter	1		ALPHA	HANDBOOK
Maximum Response Q21	1		NUMERIC	HANDBOOK
.				
.				
.				
.				
.				

NOTE 1. Maximum response (except for 8 and 9 responses) are allowed for all
questions. Asterisk denotes inactive question.

RECORD LAYOUT FORM

| | | SHEET | OF | SHEETS |

SYSTEM NAME: Hamlet Evaluation System (HES)   EFFECTIVE DATE: January 1, 1971

Record Name	Base	1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0

QTAB Village Monthly Record

Blank	Record Code	Dates		Activity	Village Monthly Question Set	Village Monthly One Time Question Set
		Start	Stop			
	Ø Ø Ø 2	Y Y M M	Y Y M M	B	4 3 C 3 3	Z 9 9 9 9 9 9 9 9 9 9

| 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 |

RECORD LAYOUT FORM   SHEET   OF   SHEETS

SYSTEM NAME: Hamlet Evaluation System (HES)   EFFECTIVE DATE: January 1, 1971

Record Name	Base	1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0

QTAB Village Quarterly Record

Blank	Record Code	Dates		Activity	Village Quarterly Question Set
		Start	Stop		

Row 1: `0 0 0 3 Y Y M M Y Y M M B 4 4 4 3 2 C 3 3 3 2 3 3 3 D 2 3 5 3 5 5 3 4 E 4 5 1 3`

Row 2: `1 * 3 7 6 F 3 3 3 1 3 3 3 G 3 4 4 L 2 2 2 5 4 6 5 5 N 3 4 4 1 4 P 3 3 3 2 R 3 3 4 T 4 4 4 4 3 2 4 3`

Row 3: `5 3 V 6 6 5 4 4 4 4 6 3 4 Z 5 4 2`

Bottom ruler: 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0

SYSTEM NAME: Hamlet Evaluation System (HES)   EFFECTIVE DATE: January 1, 1971

Record Name	Base	1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0

Record Name: QTAB Hamlet Monthly Record

Fields: Blank | Record Code | Dates (Start / Stop) | Activity | Hamlet Monthly Question Set

Data row: `0 0 0 4 Y Y M M Y Y M M A 5 5 B 2 3 5 3 2 2 3 2 C 2 2 2 3 D 3 3 3 3 6 2 2 Z 9 9`

Hamlet Monthly One Time Question Set: `9 9 9 9 9 9 9`

Bottom ruler: 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0

SYSTEM NAME: Hamlet Evaluation System (HES)   EFFECTIVE DATE: January 1, 1971

Record Name	Base	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0

QTAB Hamlet Quarterly Record

Blank   Record Code   Dates — Start / Stop   Activity   Hamlet Quarterly Question Set

Row 1: 0 0 0 5 Y Y M M Y Y M M A 2 5 B 4 2 4 C 7 3 3 4 4 4 5 5 6 4 D 6 2 2 5 5 5 E 2 3

Row 2: * 4 * F 4 4 4 2 2 4 G 3 3 3 4 4 L 3 1 3 N 4 4 5 P 3 4 R 3 3 1 1 1 S 4 3 2 2 3 Z 1 4 7 6 7 1

Bottom scale: 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0

DATA ELEMENTS OF THE HES BASIC MASTER FILE

TABLE B-3   QTAB QUESTION DESCRIPTION RECORDS (ONE FOR EACH QUESTION)

FIELD NAME	CHARACTERS	POSITION	VALUES	SOURCE
USID	9	1-9	SPACE	SYSTEM
Record Code[1]	4	10-13	NUMERIC[1]	SYSTEM
Record Start Date	4	14-17	YYMM	SYSTEM
Record Stop Date	4	18-21	YYMM	SYSTEM
Activity Code	1	22	0=ACTIVE	SYSTEM
			1=INACTIVE	
Question Code		23-27	ALPHANUMERIC	SGN
Level Code Letters	2		VM, VQ, HM, HQ	
Topic Group Code Letter	1		ALPHA	
Question Number	2		NUMERIC 01-10	
Maximum Response	1	28	NUMERIC ·	SGN
Filler	3	29-31	'000'	SYSTEM
Question Text Group Count	2	32-33	NUMERIC	SYSTEM
Question Descriptive Text		34-N		SGN
Line 1-Response	1		SPACE=QUESTION TEXT	
Text	49		NUMERIC=QUESTION RESPONSE TEXT	
Line 2-Response	1		SPACE=QUESTION TEXT	
Text	49		NUMERIC=QUESTION RESPONSE TEXT	
ETC.				

NOTE 1. The record code is defined as follows: LPPP, where L=Question level
code 1-4 for VM, VQ, HM, and VQ respectively; PPP=Relative position
of question response in the data record for that level

SYSTEM NAME: Hamlet Evaluation System (HES)   EFFECTIVE DATE: January 1, 1971

| Record Name | Basc | 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 |

QTAB Village Monthly Description Record

Blank	Record Code	Dates		Activity	Quest. Code		Response	Filler	Number Of Text Blocks	First 50 Character Block of
		Start	Stop							
	1 0 0 2	Y Y M M	Y Y M M		V M B	0 1	4	0 0 0	1 2	

Question VMB01 Text — Next 50 Character Block of

Question VMB01 Text — Next 50 Character

SYSTEM NAME: Hamlet Evaluation System (HES)   EFFECTIVE DATE: January 1, 1971

Record Name	Base	1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0

QTAB Village Quarterly Description Record

Blank	Record Code	Dates		Activity	Quest. Code	Response	Filler	Number of Text Blocks	First 50 Character Block of
		Start	Stop						
	2 0 0 2	Y Y M M	Y Y M M	V	Q B 0 1	4	0 0 0	0 9	

Question VQB01 Text   Next 50 Character Block of

Question VQB01 Text   Next 50 Character

1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0

SYSTEM NAME: Hamlet Evaluation System (HES)   EFFECTIVE DATE: January 1, 1971

Record Name	Base	1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0

QTAB Hamlet Monthly Description Record

Blank	Record Code	Dates		Activity	Quest. Code	Response	Filler	Number of Text Blocks	First 50 Character Block of
		Start	Stop						
	3 0 0 2	Y Y M M	Y Y M M	H	M A 0 1	5	0 0 0	1 3	

Question HMA01 Text   Next 50 Character Block of

Question HMA01 Text   Next 50 Character

1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0

SYSTEM NAME: Hamlet Evaluation System (HES)   EFFECTIVE DATE: January 1, 1971

Record Name	Base	1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0

QTAB Hamlet Quarterly Descriptive Record

Blank		Dates		Quest. Code	Response	Filler	Number of Text Blocks	First 50 Character Block of
		Start	Stop	Activity				
	4 0 0 2	Y Y M M	Y Y M M	H Q A	0 1 2	0 0 0	0 6	

Question HQA01 Text   Next 50 Character Block of

Question HQA01 Text   Next 50 Character

1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0

DATA ELEMENTS OF THE HES BASIC MASTER FILE

TABLE B-4   QTAB MODEL DESCRIPTION RECORDS (ONE FOR EACH MODEL)

FIELD NAME	CHARACTERS	POSITION	VALUES	SOURCE
USID	9	1-9	SPACE	SYSTEM
Record Code[1]	4	10-13	NUMERIC[1]	SYSTEM
Record Start Date	4	14-17	YYMM	SYSTEM
Record Stop Date	4	18-21	YYMM	SYSTEM
Activity Code	1	22	NUMERIC	SYSTEM
Model Code Number		23-27	ALPHANUMERIC	SGN
Alpha Prefix	3		PAM, MAM MOD, SUM	
Numeric Code	2		NUMERIC	
Filler	1	28	SPACE	SYSTEM
Filler	3	29-31	'000'	SYSTEM
Count of Component Elements from Which Model Is Derived	2	32-33	NUMERIC	SYSTEM
English Model Name	32	34-65	ALPHA	SGN
Vietnamese Model Name	32	66-97	ALPHA	SGN
Definition of Component Elements from Which Model Is Derived		98-N	ALPHANUMERIC	SGN
Component 1-Alpha Code	3		VMA, HMA, SUM, MOD, ETC	
-Numeric Code	2		NUMERIC	
Component 2-	5		AS ABOVE	
Component 3-	5		AS ABOVE	
ETC.				

NOTE 1.   The record code is defined as follows: LPPP where L=Model level code 5-8 for level 1 to level 5 models respectively; PPP=Relative position of model rating in the data record.

SYSTEM NAME: Hamlet Evaluation System (HES)   EFFECTIVE DATE: January 1, 1971

| Record Name | Base | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |

QTAB Pacification Model Descriptive Record 'PAM'

Blank									Record Code			Dates Start			Stop			Activity	Model Code			Blank	Filler		Comp. Count	English Model Name

Row data: 5 0 0 1 | Y Y M M | Y Y M M | (Activity) | P A M | 0 1 | | 0 0 0 0 | 3 H E S | R A T I N G

Vietnamese Model Name ... Comp

X E P   H A N G   C U A   H T L G A   M A M

| | Comp. 2 | Comp. 3 |

0 1 M A M 0 2 M A M 0 3

1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0

SYSTEM NAME: Hamlet Evaluation System (HES)   EFFECTIVE DATE: January 1, 1971

Record Name	Base	1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0

QTAB Macro Model
Descriptive Record
'MAM'

Blank   Record Code   Dates   Start   Stop   Activity   Model Code   Blank   Filldr   Comp. Count   English Model Name

```
          6 0 0 3 Y Y M M Y Y M M  M A M 0 1     0 0 0 0 4 C O M M U N I T Y   D E V E L O P
```

Vietnamese Model Name   Comp

```
M E N T               P H A T - T R I E N   C O N G - D O N G                    MOD
1   Comp. 2   Comp. 3   Comp. 4

0 4 M O D 0 5 M O D 0 6 S U M 1 8
```

SYSTEM NAME: Hamlet Evaluation System   EFFECTIVE DATE: January 1, 1971

| Record Name | Base | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |

QTAB Model
Descriptive Record
'MOD'

Blank   Record Code   Dates: Start Stop   Activity   Model Code   Blank   Filler   Comp. Count   English Model Name

| | | | | | | | 7 | 0 | 0 | 6 | Y | Y | M | M | Y | Y | M | M | M | O | D | 0 | 1 | | 0 | 0 | 0 | 0 | 2 | E | N | E | M | Y | | M | I | L | I | T | A | R | Y | | | | | | | | |

Vietnamese Model Name   Con

| | | | | | | | | | | | Q | U | A | N | - | S | U | - | D | I | C | H | | | | | | | | | | | | | | | | | | | | | | | | | | | | S | U |

1   Comp. 2

| 0 | 1 | S | U | M | 0 | 2 | | | |

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |

SYSTEM NAME: Hamlet Evaluation System (HES)   EFFECTIVE DATE: January 1, 1971

Record Name	Base	1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7

QTAB Sub Model Descriptive Record 'SUM'

Blank	Record Code	Dates		Activity	Model Code	Blank	Filler	Comp. Count	English Model Name
		Start	Stop						

| | | | | | 8 0 1 2 | Y Y M M | Y Y M M | S | U M 0 1 | | 0 0 0 0 | 0 6 | E N E M Y   M I L I T A R Y   PR |

Vietnamese Model Name   Com

| E S E N C E | | | H I E N - D I E N   Q U A N - S U   D I C H | | | | | | | RMB |

1	Comp. 2	Comp. 3	Comp. 4	Comp. 5	Comp. 6
0 1 H Q C 0 4	V M B 0 2	V Q B 0 2	V Q B 0 3	V Q B 0 4	

1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0

MACV-CORDS Form 78

DATA ELEMENTS OF THE HES BASIC MASTER FILE

TABLE B-5   QTAB CPE[1] RECORDS (ONE FOR EACH QUESTION RESPONSE USED IN A SUBMODEL)

FIELD NAME	CHARACTERS	POSITION	VALUES	SOURCE
USID	9	1-9	SPACE	SYSTEM
Record Code		10-13	NUMERIC	SYSTEM
Record Flag	1		'9'	SYSTEM
Submodel Number	3		NUMERIC	SYSTEM
Record Start Date	4	14-17	YYMM	SYSTEM
Record Stop Date	4	18-21	.YYMM	SYSTEM
Activity Code	1	22	NUMERIC	SYSTEM
Question Code	5	23-27	ALPHANUMERIC	SGN
Question Response	1	28	0-9	SGN
CPE Value (A)	3	29-31	NUMERIC.	SGN
CPE Value (B)	3	32-34	NUMERIC	SGN
CPE Value (C)	3	35-37	NUMERIC	SGN
CPE Value (D)	3	38-40	NUMERIC	SGN
CPE Value (E)	3	41-43	NUMERIC	SGN

NOTE 1.   CPE=Conditional probability estimates used in the Bayesian scoring algorithm.

SYSTEM NAME: Hamlet Evaluation System (HES)   EFFECTIVE DATE: January 1, 1971

Record Name	Base	1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8

QTAB Conditional Probability Estimate Record 'CPE'

BLANK	Record Code	Dates		Activity	Quest. Code	Response	CPE Values				
		Start	Stop				A	B	C	D	E
	9 0 1 1	YY MM	YY MM	H	M B	0 1 0	9 9 0	9 9 0	9 9 0	6 2 0	0 5 0

1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0

DATA ELEMENTS OF THE HES BASIC MASTER FILE

TABLE B-6   HAMLET DESCRIPTIVE RECORD

FIELD NAME	CHARACTERS	POSITION	VALUES	SOURCE
USID	9	1-9	NUMERIC	SGN
Record Code	4	10-13	'0101'	SYSTEM
Record Start Date	4	14-17	YYMM	SYSTEM
Record Stop Date	4	18-21	YYMM	SYSTEM
Activity Code	1	22	0=ACTIVE 1=INACTIVE	SYSTEM
Hamlet Name	20	23-42	ALPHANUMERIC	DSA
UTM Coordinates	8	43-50	AANNNNNN	DSA
GVN Serial Number	4	51-54	NNNA	DSA
Hamlet Category	1	55	SEE SYNOPSIS	SYSTEM
Hamlet Flags	9	56-64	SEE SYNOPSIS	SYSTEM
Administrative USID	9	65-73	NUMERIC	SYSTEM

SYSTEM NAME: Hamlet Evaluation System (HES)   EFFECTIVE DATE: January 1, 1971

| Record Name | Card | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |

Hamlet Descriptive Record

	USID										Record Code			Dates							Activity	Hamlet Name																					UTM Coordinates						
													Start		Stop																																		

1 0 1 0 | 1 0 1 0 | 1 | 0 1 0 1 | Y Y M M | Y Y M M | T | A N - A N   Y D 4 6 6 5 8 4

GVN No.	Category	Hamlet Flags									Administrative USID
		U/R	DC	PC	N/A	VAC	N/A	N/A	REF	RTV	

0 0 1 | B | 0 | 9 | 9 | 9 | 0 | 9 | 9 | 9 | 9 | 1 0 1 0 1 0 1 0 0

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |

MACCORDS Form 31
12 Aug 69

B - 23

DATA ELEMENTS OF THE HES BASIC MASTER FILE

TABLE B-7   HAMLET POPULATION/MODEL RATING RECORD

FIELD NAME	CHARACTERS	POSITION	VALUES	SOURCE
USID	9	1-9	NUMERIC	SGN
Record Code	4	10-13	'0131'	SYSTEM
Record Start Date	4	14-17	YYMM	SYSTEM
Record Stop Date	4	18-21	YYMM	SYSTEM
Activity Code	1	22	0=ACTIVE 1=INACTIVE	SYSTEM
Total Population	5	23-27	NUMERIC	DSA
Temporary Population	5	28-32	NUMERIC	DSA
Permanent Population	5	33-37	NUMERIC	DSA
Model Ratings[1]	VARIABLE	38-N	ALPHANUMERIC	SYSTEM

NOTE 1.   The definition of each position in the model rating field is provided in the corresponding QTAB Records.

SYSTEM NAME: Hamlet Evaluation System (HES) | EFFECTIVE DATE: January 1, 1971

Record Name	Base	1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7

Hamlet Population
Model Rating Record

USID	Record Code	Dates		Activity	Hamlet Population			Model Ratings	
		Start	Stop		Total	Temporary	Permanent	Macros	Models
1 0 1 0 1 0 1 0 1 0 1 3 1		Y Y M M	Y Y M M	0 0 1 0 0 0 0 0 5 0	0 0 0 0 5 0	A A B B	A B C D	A B C C

Sub Models

A B B C D N E A B C A B C A B C C

1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0

DATA ELEMENTS OF THE HES BASIC MASTER FILE

TABLE B-8   HAMLET MONTHLY QUESTION RESPONSE RECORD

FIELD NAME	CHARACTERS	POSITION	VALUES	SOURCE
USID	9	1-9	NUMERIC	SGN
Record Code	4	10-13	'0151'	SYSTEM
Record Start Date	4	14-17	YYMM	SYSTEM
Record Stop Date	4	18-21	YYMM	SYSTEM
Activity Code	1	22	0=ACTIVE	SYSTEM
			1=INACTIVE	
Monthly		23-N	ALPHANUMERIC	DSA
Question Responses[1]	VARIABLE			

NOTE 1.   The definition of each position in the question response field is provided in the corresponding QTAB Records.

SYSTEM NAME: Hamlet Evaluation System (HES)   EFFECTIVE DATE: January 1971

Record Name	Base	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8

Hamlet Monthly Response Record

USID	Record Code	Dates — Start / Stop	Activity	Hamlet Monthly Question Responses	One

| 1 | Ø | 1 | Ø | 1 | Ø | 1 | Ø | 1 | Ø | 1 | 5 | 1 | Y | Y | M | M | Y | Y | M | M | A | 5 | 5 | B | 2 | 3 | 5 | 3 | 2 | 2 | 3 | 2 | C | 2 | 2 | 2 | 3 | D | 3 | 3 | 3 | 3 | 6 | 2 | 2 | Z | 9 | 9 |

Time Questions

| 9 | 9 | 9 | 9 | 9 | 9 | 9 |

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |

MACCORDS Form 28
12 Aug 69

DATA ELEMENTS OF THE HES BASIC MASTER FILE

TABLE B-9   HAMLET QUARTERLY QUESTION RESPONSE RECORD

FIELD NAME	CHARACTERS	POSITION	VALUES	SOURCE
HSID	9	1-9	NUMERIC	SGN
Record Type	4	10-13	'0152'	SYSTEM
Record Start Date	4	14-17	YYMM	SYSTEM
Record Stop Date	4	18-21	YYMM	SYSTEM
Activity Code	1	22	0=ACTIVE 1=INACTIVE	SYSTEM
Quarterly Question Responses[1]	VARIABLE	23-N	ALPHANUMERIC	DSA

NOTE 1. The definition of each position in the question response field is provided in the corresponding QTAB Records.

SYSTEM NAME: Hamlet Evaluation System (HES)   EFFECTIVE DATE: January 1, 1971

Record Name	Bas.	1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8

Record Name: Hamlet Quarterly Question Response Record

USID	Record Code	Dates Start	Stop	Activity	Hamlet Quarterly Responses

Row 1: `1 0 1 0 1 0 1 0 1` `0 1 5 2` `Y Y M M` `Y Y M M` `A 2 5 B 4 2 4 C 7 3 3 4 4 4 5 5 6 4 D 6 2 2 5 5 5 E 2 5`

Row 2: `* 4 * F 4 4 4 2 2 4 G 3 3 3 4 4 L 3 1 3 N 4 4 5 P 3 4 R 3 3 1 1 1 S 4 3 2 2 3 Z 1 4 7 6 7 1`

Bottom scale: `1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0`

DATA ELEMENTS OF THE HES BASIC MASTER FILE

TABLE B-10   VILLAGE DESCRIPTIVE RECORD

FIELD NAME	CHARACTERS	POSITION	VALUES	SOURCE
USID	9	1-9	NUMERIC	SGN
Record Code	4	10-13	'0201'	SYSTEM
Record Start Date	4	14-17	YYMM	SYSTEM
Record Stop Date	4	18-21	YYMM	SYSTEM
Activity Code	1	22	0=ACTIVE 1=INACTIVE	SYSTEM
Village Name	20	23-42	ALPHANUMERIC	DSA
Village Admin. Center (Name of Hamlet Where Village Administrative Center Is Located)	20	43-62	ALPHANUMERIC	SYSTEM
Admin Hamlet ID	2	63-64	NUMERIC	SYSTEM
Admin Center UTM	8	65-72	AANNNNNN	SYSTEM
Explanation of Non-Hamlet Population	40	73-112	ALPHANUMERIC	DSA
Count of Active Hamlets in Village	2	113-114	NUMERIC	SYSTEM
Count of Hamlets Added	2	115-116	NUMERIC	SYSTEM
Count of Population Added	6	117-122	NUMERIC	SYSTEM
Count of Hamlets Deleted	2	123-124	NUMERIC	SYSTEM
Count of Population Deleted	6	125-130	NUMERIC	SYSTEM
Village Category	1	131	SEE SYNOPSIS	SYSTEM
Village Flags	8	132-139	SEE SYNOPSIS	SYSTEM
Village Admin USID	9	140-148	NUMERIC	SYSTEM/SGN

SYSTEM NAME: Hamlet Evaluation System (HES)   **EFFECTIVE DATE:** January 1, 1971

| Record Name | Base | 1 2 3 4 5 6 7 8 9 0 1 2 | 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 |

Village Descriptive Record

USID	Record Code	Dates		Activity	Village Name		Village
		Start	Stop				
1 0 1 0 1 0 1 0 0 0 2 0		1 Y Y M M	Y Y M M	A	H A I - A N		H A M L E T

Administrative Center	Ham Admin ID	Admin UTM	Explanation of Non Hamlet Population
	0 1	Y D 4 6 1 5 8 6	N O N O N - H A M L E T P O P U L A T I O N

NUMBER 0 2	Hamlet Count	Adds Count	Hamlet Adds Population	Hamlet Deletes	Category	Village Flags U/R RC DC PC NA NA NA NA	Administrative ID
	0 5	0 1	0 0 0 1 9 5	0 0 0 0 0 0 0 0	B	0 9 9 9 9 9 9 9	1 0 1 0 1 0 1 0 2

| 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 |

DATA ELEMENTS OF THE HES BASIC MASTER FILE

TABLE B-11   VILLAGE POPULATION/MODEL RATING RECORD

FIELD NAME	CHARACTERS	POSITION	VALUES	SOURCE
USID	9	1-9	NUMERIC	SGN
Record Code	4	10-13	'0231'	SYSTEM
Record Start Date	4	14-17	YYMM	SYSTEM
Record Stop Date	4	18-21	YYMM	SYSTEM
Activity Code	1	22	0=ACTIVE	SYSTEM
			1=INACTIVE	
Total Population	6	23-28	NUMERIC	SYSTEM
Non-Hamlet Population	6	29-34	NUMERIC	DSA
Hamlet Population	6	35-40	NUMERIC	SYSTEM
Temporary Population	6	41-46	NUMERIC	DSA
Permanent Residents	6	47-52	NUMERIC	DSA
Village Ratings[1]	VARIABLE	53-N	ALPHANUMERIC	SYSTEM

NOTE 1.   The definition of each position in the model rating field is provided in the corresponding QTAB records.

Record Name	Base	1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6

SYSTEM NAME: Hamlet Evaluation System (HES) **EFFECTIVE DATE:** January 1970

Village Population and Model Rating Record		USID	Record Code	Dates		Activity	Village Population				
				Start	Stop		Total	Non Hamlet	Hamlet	Temporary	Perm
		1 0 1 0 1 0 1 0 0 0 2 3 1		Y Y M M	Y Y M M		0 0 1 0 0 0 0 0 0 5 0 0	0 0 0 5 0 0	0 0 0 2 5 0	0 0 0 2	

Village Model Ratings

Macros	Models	Sub Models
5 0	B B A B B C	B B C A B A B N A B C B D B C D A B B C A A B B

1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0

DATA ELEMENTS OF THE HES BASIC MASTER FILE

TABLE B-12   VILLAGE-ONLY[1] MODEL RATING RECORD

FIELD NAME	CHARACTERS	POSITION	VALUES	SOURCE
USID	9	1-9	NUMERIC	SYSTEM
Record Code	4	10-13	'0232'	SYSTEM
Record Start Date	4	14-17	YYMM	SYSTEM
Record Stop Date	4	18-21	YYMM	SYSTEM
Activity Code	1	22	0=ACTIVE 1=INACTIVE	SYSTEM
Village-Only Model Ratings[2]	VARIABLE	23-N	ALPHANUMERIC	SYSTEM

NOTE 1. Village-only ratings are derived by disregarding all hamlet-level question responses that would normally be used in defining the model.

NOTE 2. The definition of each position in the model rating field is provided in the corresponding QTAB records.

SYSTEM NAME: Hamlet Evaluation System (HES)   EFFECTIVE DATE: January 1, 1971

Record Name	Base	1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7

Village-Only Model Rating Record

USID		Record Code	Dates		Activity	Village-Only Model Ratings		
			Start	Stop		Macros	Model	Sub Model

| 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 2 | 3 | 2 | Y | Y | M | M | Y | Y | M | M | A | B | B | A | B | C | A | B | C | A | B | C | D | N | A | B | B | B | C | B | B | N | B | C | C | B | B | A | B |

| B | B |

| 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 |

DATA ELEMENTS OF THE HES BASIC MASTER FILE

TABLE B-13   VILLAGE MONTHLY QUESTION RESPONSE RECORD

FIELD NAME	CHARACTERS	POSITION	VALUES	SOURCE
USID	9	1-9	NUMERIC	SGN
Record Code	4	10-13	'0251'	SYSTEM
Record Start Date	4	14-17	YYMM	SYSTEM
Record Stop Date	4	18-21	YYMM	SYSTEM
Activity Code	1	22	0=ACTIVE 1=INACTIVE	SYSTEM
Monthly Question Responses[1]	VARIABLE	23-N	ALPHANUMERIC	DSA

NOTE 1. The definition of each position in the question response field is provided in the corresponding QTAB records.

SYSTEM NAME: Hamlet Evaluation System (HES)   EFFECTIVE DATE: January 1971

Record Name	Base	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	5	6	7

Village Monthly Question Record

USID												Record Code		Dates — Start				Stop				Activity	Village Monthly			One Time Questions (Question Responses)												
1	0	1	0	1	0	1	0	0	0	2	5	1		Y	Y	M	M	Y	Y	M	M		B	4	3	C	3	3	Z	9	9	9	9	9	9	9	9	9	9

1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0

DATA ELEMENTS OF THE HES BASIC MASTER FILE

TABLE B-14   VILLAGE QUARTERLY QUESTION RESPONSE RECORD

FIELD NAME	CHARACTERS	POSITION	VALUES	SOURCE
VSID	9	1-9	NUMERIC	SGN
Record Code	4	10-13	'0252'	SYSTEM
Record Start Date	4	14-17	YYMM	SYSTEM
Record Stop Date	4	18-21	YYMM	SYSTEM
Activity Code	1	22	0=ACTIVE 1=INACTIVE	SYSTEM
Quarterly Question Responses[1]	VARIABLE	23-N	ALPHANUMERIC	DSA

NOTE 1.   The definition of each position in the question response field is provided
in the corresponding QTAB records.

SYSTEM NAME: Hamlet Evaluation System (HES)   EFFECTIVE DATE: January 1, 1971

Record Name	Base	1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0

Village Quarterly Question Record

USID   Record Code   Dates   Start   Stop   Activity   Village Quarterly Question Responses

1 0 1 0 1 0 1 0 0 0 2 5 2 Y Y M M Y Y M M B 4 4 4 3 2 C 3 3 3 2 3 3 3 D 2 3 5 3 5 5 3 4 E 4 5 1 3

1 * 3 7 6 F 3 3 3 1 3 3 3 G 3 4 4 L 2 2 2 5 4 6 5 5 N 3 4 4 1 4 P 3 3 3 2 R 3 3 4 T 4 4 4 4 3 2 4 3

5 3 V 6 6 5 4 4 4 4 6 3 4 Z 5 4 2

1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0

DATA ELEMENTS OF THE HES BASIC MASTER FILE

TABLE B-15   DISTRICT DESCRIPTIVE RECORD

FIELD NAME	CHARACTERS	POSITION	VALUES	SOURCE
USID	9	1-9	NUMERIC	SGN
Record Code	4	10-13	'0301'	SYSTEM
Record Start Date	4	14-17	YYMM	SYSTEM
Record Stop Date	4	18-21	YYMM	SYSTEM
Activity Code	1	22	0=ACTIVE	SYSTEM
			1=INACTIVE	
District Name	20	23-42	ALPHANUMERIC	DSA
District Capital Name	20	43-62	NUMERIC	DSA/SGN
District Capital UTM	8	72-79	AANNNNNN	SYSTEM
Name/Rank of DSA	30	80-109	ALPHANUMERIC	DSA
Deros of the DSA	7	110-116	DDMMMYY	DSA
Hamlet Count	3	117-119	NUMERIC	SYSTEM
Village Count	3	120-122	NUMERIC	SYSTEM
Villages with Non-Hamlet Population	3	123-125	NUMERIC	SYSTEM
Hamlet Added	3	126-128	NUMERIC	SYSTEM
Hamlet Population Added	7	129-135	NUMERIC	SYSTEM
Villages Added	3	136-138	NUMERIC	SYSTEM
Village Population Added	7	139-145	NUMERIC	SYSTEM
Hamlets Deleted	3	146-148	NUMERIC	SYSTEM
Hamlets Population Deleted	7	149-155	NUMERIC	SYSTEM
Villages Deleted	3	156-158	NUMERIC	SYSTEM
Village Population Deleted	7	159-165	NUMERIC	SYSTEM
Village Category	1	166	SEE SYNOPSIS	SYSTEM

SYSTEM NAME: Hamlet Evaluation System (HES) EFFECTIVE DATE: January 1, 1971

Record Name	Base	1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0

District Description Record

USID	Record Code	Dates		Activity	District Name	District
		Start	Stop			

1 Ø 1 Ø 1 Ø Ø Ø Ø Ø 3 Ø 1 | Y Y M M | Y Y M M | | H A I   L A N G | T A N - A N

Capital Name	Capital USID	Capital UTM	DSA Name and Rank

		1 Ø 1 Ø	1 Ø 1 Ø 1	Y D 4 6 6 5 8 4	C A P T J O H N D O E

DSA DEROS	Active Unit Sums			Unit Adds				Unit
	Ham	Vill	VNHP	Hams	Population	Vills	Population	Hams

D D M M M Y Y Ø 1 5 Ø Ø 5 Ø Ø 1 Ø

Deletes			Category
Population	Vills	Population	

Ø Ø Ø Ø Ø Ø Ø Ø Ø Ø Ø Ø Ø Ø Ø Ø B

1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0

MACCORDS Form 28
12 Aug 69

B - 41

DATA ELEMENTS OF THE HES BASIC MASTER FILE

TABLE B-16   DISTRICT POPULATION/MODEL RATING RECORD

FIELD NAME	CHARACTERS	POSITION	VALUES	SOURCE
USID	9	1-9	NUMERIC	SGN
Record Code	4	10-13	'0331'	SYSTEM
Record Start Date	4	14-17	YYMM	SYSTEM
Record Stop Date	4	18-21	YYMM	SYSTEM
Activity Code	1	22	0=ACTIVE 1=INACTIVE	SYSTEM
Total Population	7	23-29	NUMERIC	SYSTEM
Non-Hamlet Population	7	30-36	NUMERIC	SYSTEM
Total Hamlet Population	7	37-43	NUMERIC	SYSTEM
Temporary Population	7	44-50	NUMERIC	SYSTEM
Permanent Population	7	51-57	NUMERIC	SYSTEM
Model Ratings[1]	VARIABLE	58-N	ALPHANUMERIC	SYSTEM

NOTE 1.   The definition of each position in the model rating field is provided in the corresponding QTAB records.

SYSTEM NAME: Hamlet Evaluation System (HES)   **EFFECTIVE DATE:** January 1, 19__

Record Name	Base	Column positions 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 0

District Population and Model Rating Record

USID	Record Code	Dates Start	Dates Stop	Activity	District Population Total	Non Hamlet	Hamlet	Temporary
1 0 1 0 1 0 0 0 0 0 0 3 3 1		Y Y M M	Y Y M M		0 0 1 1 5 0 0 0	0 0 0 0 5 0	0 0 0 1 1 0 0 0	0 0 0 0 1 0 0 0

District Model Ratings

Permanent	Macros	Models	Sub Models
0 0 1 0 0 0 0 0	B B A B A B B B C B N	A B C A B C C B B	B A A B B A A B B A

DATA ELEMENTS OF THE HES BASIC MASTER FILE

TABLE B-17   PROVINCE DESCRIPTIVE RECORD

FIELD NAME	CHARACTERS	POSITION	VALUES	SOURCE
USID	9	1-9	NUMERIC	SGN
Record Code	4	10-13	'0401'	SYSTEM
Record Start Date	4	14-17	YYMM	SYSTEM
Record Stop Date	4	18-21	YYMM	SYSTEM
Activity Code	1	22	0=ACTIVE 1=INACTIVE	SYSTEM
Province Name	20	23-42	ALPHANUMERIC	PSA
Province Capital Name	20	43-62	ALPHANUMERIC	SGN
Province Capital USID	9	63-71	NUMERIC	SGN
Province Capital UTM	8	72-79	AANNNNNN	SGN
Name of PSA	30	80-109	ALPHANUMERIC	PSA
Deros of PSA	7	110-116	DDMMMYY	PSA
Hamlet Count	4	117-120	NUMERIC.	SYSTEM
Village Count	4	121-124	NUMERIC	SYSTEM
Villages with Non-Hamlet Population	4	125-128	NUMERIC	SYSTEM
District Count	4	129-132	NUMERIC	SYSTEM
Hamlets Added	4	133-136	NUMERIC	SYSTEM
Hamlet Population Added	7	137-143	NUMERIC	SYSTEM
Villages Added	4	144-147	NUMERIC	SYSTEM
Village Population Added	7	148-154	NUMERIC	SYSTEM
Districts Added	4	155-158	NUMERIC	SYSTEM
District Population Added	7	159-165	NUMERIC	SYSTEM
Hamlet Deleted	4	166-169	NUMERIC	SYSTEM
Hamlet Population Deleted	7	170-176	NUMERIC	SYSTEM
Villages Deleted	4	177-180	NUMERIC	SYSTEM
Village Population Deleted	7	181-187	NUMERIC	SYSTEM
Districts Deleted	4	188-191	NUMERIC	SYSTEM
District Population Deleted	7	192-198	NUMERIC	SYSTEM
Category	1	199	SEE SYNOPSIS	SYSTEM

SYSTEM NAME: Hamlet Evaluation System (HES)   **EFFECTIVE DATE:** January 1, 1971

Record Name	Base	1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0

Province Description Record

USID		Record Code	Dates		Activity	Province Name		Province
			Start	Stop				

`1 0 1 0 0 0 0 0 0 0 4 0 1 Y Y M M Y Y M M Q U A N G   T R I                     T A N - A N`

Capital Name		Capital USID		Capital UTM		PSA Name and Rank

`                 1 0 1 0 1 0 1 0 1 Y D 4 6 6 5 8 4 C A P T   J O H N   D O E`

	PSA DEROS	Active Unit Sums				Unit Adds				
		Hamlets	Villages	VNHP	Districts	Hamlets	Population		Villages	Pop-

`            D D M M M Y Y 0 2 0 0 0 0 3 0 0 0 0 6 0 0 0 5 0 0 0 6 0 0 0 1 5 5 5 0 0 0 0 0 0 0 0`

ulation	Districts	Population	Hamlets	Population	Villages	Population	Districts	Population	Category
			Unit Deletes						

`0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 1 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 B`

		1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0

MACCORDS Form 28
12 Aug 69   B - 45

DATA ELEMENTS OF THE HES BASIC MASTER FILE

TABLE B-18   PROVINCE POPULATION/MODEL RATING RECORD

FIELD NAME	CHARACTERS	POSITION	VALUES	SOURCE
SID	9	1-9	NUMERIC	SGN
Record Code	4	10-13	'0431'	SYSTEM
Record Start Date	4	14-17	YYMM	SYSTEM
Record Stop Date	4	18-21	YYMM	SYSTEM
Activity Code	1	22	0=ACTIVE	SYSTEM
			1=INACTIVE	
Total Population	7	23-29	NUMERIC	SYSTEM
Non-Hamlet Population	7	30-36	NUMERIC	SYSTEM
Hamlet Population	7	37-43	NUMERIC	SYSTEM
Temporary Population	7	44-50	NUMERIC	SYSTEM
Permanent Population	7	51-57	NUMERIC	SYSTEM
Model Ratings[1]	VARIABLE	58-N	ALPHANUMERIC	SYSTEM

NOTE 1.   The definition of each position in the model rating field is provided in the corresponding QTAB records.

SYSTEM NAME: Hamlet Evaluation System (HES)   EFFECTIVE DATE: January 1, 1971

Record Name	Base	1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 ... 6 7 8 9 0

Record Name: **Province Population and Model Rating Record**

USID	Record Code	Dates		Activity	Province Population			
		Start	Stop		Total	Non Hamlet	Hamlet	Temporary

Data: `1 0 1 0 0 0 0 0 0 0 4 3 1 YY MM YY MM 0 0 1 0 0 0 0 0 0 0 0 5 0 0 0 0 0 0 9 5 0 0 0 0 0 0 9 0 0 0`

Province Model Ratings

Permanent	Macros	Models	Sub Models

Data: `0 0 0 0 5 0 0 B B A B B A B B B C B A B C A B B A C B B A A B B A B C B B`

Bottom ruler: 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0

DATA ELEMENTS OF THE HES BASIC MASTER FILE

TABLE B-19   MR DESCRIPTIVE RECORD

FIELD NAME	CHARACTERS	POSITION	VALUES	SOURCE
USID	9	1-9	NUMERIC	SGN
Record Code	4	10-13	'0501'	SYSTEM
Record Start Date	4	14-17	YYMM	SYSTEM
Record Stop Date	4	18-21	YYMM	SYSTEM
Activity Code	1	22	0=ACTIVE 1=INACTIVE	SYSTEM
Hamlet Count	5	23-27	NUMERIC	SYSTEM
Village Count	5	28-32	NUMERIC	SYSTEM
Villages with Non-Hamlet Population	5	33-37	NUMERIC	SYSTEM
District Count	5	38-42	NUMERIC	SYSTEM
Province Count	5	43-47	NUMERIC	SYSTEM
Hamlets Added	5	48-52	NUMERIC	SYSTEM
Hamlet Population Added	8	53-60	NUMERIC	SYSTEM
Villages Added	5	61-65	NUMERIC	SYSTEM
Village Population Added	8	66-73	NUMERIC	SYSTEM
Districts Added	5	74-78	NUMERIC	SYSTEM
District Population Added	8	79-86	NUMERIC	SYSTEM
Provinces Added	5	87-91	NUMERIC	SYSTEM
Province Population Added	8	92-99	NUMERIC	SYSTEM
Hamlets Deleted	5	100-104	NUMERIC	SYSTEM
Hamlet Population Deleted	8	105-112	NUMERIC	SYSTEM
Villages Deleted	5	113-117	NUMERIC	SYSTEM
Village Population Deleted	8	118-125	NUMERIC	SYSTEM
Districts Deleted	5	126-130	NUMERIC	SYSTEM
District Population Deleted	8	131-138	NUMERIC	SYSTEM
Provinces Deleted	5	139-143	NUMERIC	SYSTEM
Province Population Deleted	8	144-151	NUMERIC	SYSTEM
Category	1	152	SEE SYNOPSIS	SYSTEM

RECORD LAYOUT FORM

SYSTEM NAME: Hamlet Evaluation System (HES) **EFFECTIVE DATE:** January , 197

Record Name	Base	1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6

MR Description Record

USID		Record Code	Dates		Activity	Unit Sums					Ham-
			Start	Stop		Hamlet	Village	VNHP	District	Province	

`1 0 0 0  0 0 0 0 0 0 5 0 1 Y Y M M Y Y M M  0 2 0 0 0 0 0 1 5 0 0 0 0 6 0 0 0 0 1 5 0 0 0 0 9 0 0 0`

Unit Adds

lets	Population	Villages	Population	Districts	Population	Provinces	Population

`1 0 0 0 0 0 3 2 0 0 0 0 0 0 1 0 0 0 0 3 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0`

Unit Deletes

Hamlets	Population	Villages	Population	Districts	Population	Provinces	Population

`0 0 0 1 0 0 0 0 0 2 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0`

Category

`0 B`

`0`

1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0

DATA ELEMENTS OF THE HES BASIC MASTER FILE

TABLE B-20   MR POPULATION/MODEL RATING RECORD

FIELD NAME	CHARACTERS	POSITION	VALUES	SOURCE
USID	9	1-9	NUMERIC	SGN
Record Code	4	10-13	'0531'	SYSTEM
Record Start Date	4	14-17	YYMM	SYSTEM
Record Stop Date	4	18-21	YYMM	SYSTEM
Activity Code	1	22	0=ACTIVE 1=INACTIVE	SYSTEM
Total Population	8	23-30	NUMERIC	SYSTEM
Non-Hamlet Population	8	31-38	NUMERIC	SYSTEM
Hamlet Population	8	39-46	NUMERIC	SYSTEM
Temporary Population	8	47-54	NUMERIC	SYSTEM
Permanent Population	8	55-62	NUMERIC	SYSTEM
Model Ratings[1]	VARIABLE	63-N	ALPHANUMERIC	SYSTEM

NOTE 1.   The definition of each position in the model rating field is provided in the corresponding QTAB records.

SYSTEM NAME: Hamlet Evaluation System (HES)   EFFECTIVE DATE: January 1, 1971

| Record Name | Base | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 3 | 4 | 5 | | 7 | 8 | 9 | 0 |

MR Population and Model Rating Record

USID — Record Code — Dates (Start, Stop) — Activity — MR Population (Total, Non Hamlet, Hamlet, Temporary)

```
1 0 0 0 0 0 0 0 0 0 5 3 1 Y Y M M Y Y M M 0 4 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 3 9 9 0 0 0 0 0 0 0 0 9
```

MR Model Ratings — orary — Permanent — Macros — Models — Sub Models

```
0 0 0 0 0 3 9 0 0 0 0 0 B B A B B A B B C B B C B A B B B C B B A B B A B B A B B B
```

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |

DATA ELEMENTS OF THE HES BASIC MASTER FILE

TABLE B-21   RVN DESCRIPTIVE RECORD

FIELD NAME	CHARACTERS	POSITION	VALUES	SOURCE
USID	9	1-9	NUMERIC	SGN
Record Code	4	10-13	'0601'	SYSTEM
Record Start Date	4	14-17	YYMM	SYSTEM
Record Stop Date	4	18-21	YYMM	SYSTEM
Activity Code	1	22	0=ACTIVE 1=INACTIVE	SYSTEM
Hamlet Count	5	23-27	NUMERIC	SYSTEM
Village Count	5	28-32	NUMERIC	SYSTEM
Villages with Non-Hamlet Population	5	33-37	NUMERIC	SYSTEM
District Count	5	38-42	NUMERIC	SYSTEM
Province Count	5	43-47	NUMERIC	SYSTEM
MR Count	5	48-52	NUMERIC	SYSTEM
Hamlets	5	53-57	NUMERIC	SYSTEM
Hamlet Population Added	8	58-65	NUMERIC	SYSTEM
Villages Added	5	66-70	NUMERIC	SYSTEM
Village Population Added	8	71-78	NUMERIC	SYSTEM
Districts Added	5	79-83	NUMERIC	SYSTEM
District Population Added	8	84-91	NUMERIC	SYSTEM
Provinces Added	5	92-96	NUMERIC	SYSTEM
Province Population Added	8	97-104	NUMERIC	SYSTEM
MR Added	5	105-109	NUMERIC	SYSTEM
MR Population Added	8	110-117	NUMERIC	SYSTEM
Hamlets Deleted	5	118-122	NUMERIC	SYSTEM
Hamlet Population Deleted	8	123-130	NUMERIC	SYSTEM
Villages Deleted	5	131-135	NUMERIC	SYSTEM
Village Population Deleted	8	136-143	NUMERIC	SYSTEM
Districts Deleted	5	144-148	NUMERIC	SYSTEM
District Population Deleted	8	149-156	NUMERIC	SYSTEM
Provinces Deleted	5	157-161	NUMERIC	SYSTEM
Province Population Deleted	8	162-169	NUMERIC	SYSTEM
MR Deleted	5	170-174	NUMERIC	SYSTEM
MR Population Deleted	8	175-182	NUMERIC	SYSTEM
Category	1	183	SYNOPSIS	SYSTEM

Record Name	Base	1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0

RVN Description Record

USID	Record Code	Dates		Activity	Unit Sums					
		Start	Stop		Hamlets	Villages	VNHP	Districts	Provinces	MR

`0 0 0 0 0 0 0 0 0 0 6 0 1 YY MM YY MM | 1 4 0 0 0 0 2 7 0 0 0 0 5 0 0 0 0 2 7 0 0 0 5`

Unit Adds

Hamlets	Population	Villages	Population	Districts	Population	Provinces	Popula-

`0 4 0 0 0 4 0 0 0 0 2 1 0 0 0 0 0 0 0 6 0 0 0 0 0 0 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0`

tion	MR	Population	Hamlets	Population	Villages	Population	Districts	Pop

Unit Deletes

`0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 3 0 0 0 0 1 8 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0`

ulation	Provinces	Population	MR	Population	Category

`0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 B`

1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0

MACCORDS Form 28
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B - 53

DATA ELEMENTS OF THE HES BASIC MASTER FILE

TABLE B-22   RVN POPULATION/MODEL RATING RECORD

FIELD NAME	CHARACTERS	POSITION	VALUES	SOURCE
USID	9	1-9	NUMERIC	SGN
Record Code	4	10-13	'0631'	SYSTEM
Record Start Date	4	14-17	YYMM	SYSTEM
Record Stop Date	4	18-21	YYMM	SYSTEM
Activity Code	1	22	0=ACTIVE 1=INACTIVE	SYSTEM
Total Population	8	23-30	NUMERIC	SYSTEM
Non-Hamlet Population	8	31-38	NUMERIC	SYSTEM
Hamlet Population	8	39-46	NUMERIC	SYSTEM
Temporary Population	8	47-54	NUMERIC	SYSTEM
Permanent Population	8	55-62	NUMERIC	SYSTEM
Model Ratings[1]	VARIABLE	63-N	ALPHANUMERIC	SYSTEM

NOTE 1. The definition of each position in the model rating field is provided in the corresponding QTAB records.

Civil Operations and Rural Development Support (CORDS), Research and Analysis Directorate, *Hamlet Evaluation System (HES) Command Manual*, Document No. DAR R70-79 CM-01B, Military Assistance Command Vietnam, 1 September 1971.

Part of the technical documentation for the electronic records series Hamlet Evaluation System (HES) in Records of the U.S. Forces in Southeast Asia (RG 472) (NN3-349-81-001; NAID 18556191).

CIVIL OPERATIONS AND RURAL DEVELOPMENT SUPPORT
RESEARCH AND ANALYSIS DIRECTORATE
1 SEP 1971

Hamlet Evaluation System (HES)

MACV

Document Number
DAR R70-79
CM-01B
Command Manual

MILITARY

ASSISTANCE
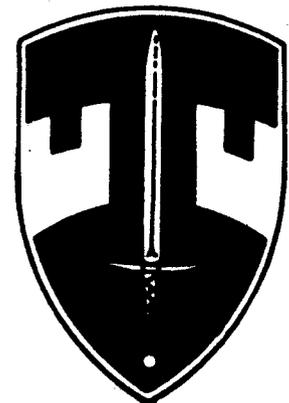
COMMAND

VIETNAM

HEADQUARTERS
MILITARY ASSISTANCE COMMAND, VIETNAM

HAMLET EVALUATION SYSTEM (HES)

1 September 1971
MACV DOCUMENT NUMBER
DAR R7Ø-79
CM-Ø1B

Prepared for
RESEARCH AND ANALYSIS DIRECTORATE
CIVIL OPERATIONS AND RURAL DEVELOPMENT SUPPORT

DOCUMENT ACCEPTANCE

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iii

ABSTRACT

The Hamlet Evaluation System (HES) Command Manual DAR R7∅-79, CM-∅1B, is the master document governing utilization of the system. HES has been developed to provide Military Assistance Command, Civil Operations and Rural Development Support, Research and Analysis Directorate (MACCORDS-RAD) with an automated means of monitoring the progress of the pacification effort in hamlets and villages throughout the Republic of Vietnam. The system processes data on military, political, and community development conditions in these hamlets and villages and produces a variety of summary and analytical reports for distribution to those commands and agencies involved in the management and/or analysis of pacification program resources and their employment. This manual supersedes the Hamlet Evaluation System 1970 (HES/70) Command Manual DAR R7∅-79, CM-∅1A, published 1 September 1970 and unofficially distributed as interim documentation for HES.

ACKNOWLEDGEMENT

TABLE OF CONTENTS

TABLE OF CONTENTS (Cont.)

viii

LIST OF ILLUSTRATIONS

HAMLET EVALUATION SYSTEM (HES)

1   GENERAL DESCRIPTION

This section includes a statement of the purpose of the Command Manual and presents discussions on the application, operation, configuration, performance, and organization of the Hamlet Evaluation System (HES). A description of the data base and a general description of the system's inputs, processing, and outputs are also included.

1.1   Purpose of the Command Manual

The Hamlet Evaluation System (HES) Command Manual is designed to meet the requirements of Military Assistance Command, Vietnam, Civil Operations and Rural Development Support, Reports and Analysis Directorate/Analysis Section (MACCORDS-RAD/A) staff personnel. The material orients the reader by presenting an overall description of HES, and informs him of system functions, capabilities, and procedures necessary for effective use of the system.

A glossary of acronyms, abbreviations, and terms with special meanings used within the text is included as Appendix A of this manual.

1.2   System Application

HES provides an automated means of collecting and reporting information describing the status of pacification at the hamlet and village level throughout the Republic of Vietnam (RVN). The system processes information on data describing the physical environment of each hamlet and village, and the effects achieved by the pacification program as applied to these areas.

The system was designed specifically as a means of evaluating the effects of insurgency upon the people of Vietnam; essentially, the system permits a set of questions to be asked about the people and their environment, and then evaluations to be derived from the responses. The system provides information in three functional areas encompassing pacification - military, political, and community development - from a set of 165 multiple-choice questions. (Appendix B contains the HES Question Set.) Answers to these questions are submitted monthly and quarterly by US District Senior Advisors (DSAs) through channels to MACCORDS, where the data is processed. HES may be considered an approach to pacification measurement since the system computes ratings for hamlets and villages using a mathematical technique (Bayes Theorem) based on the theory of statistical inference. The manner in which each hamlet's overall HES Rating is determined (from A, the most secure, through E, the least; N (non-evaluated); or V (under Viet Cong control)) is described in Appendix C to this manual.

System reports displaying information for both computed ratings and responses to the HES Question Set are generated for use by those commands and agencies involved in the management and/or analysis of pacification program resources and their employment.

1.2.1   System Objectives. HES is designed to meet the following objectives:

(1)   Monitor the progress of the pacification effort in hamlets and villages throughout RVN.

(2)   Provide an automated capability for analyzing trends in various aspects of projects within the pacification program.

(3)   Provide a variety of automated summary and analytical reports that reflect military, political, and community development aspects of the pacification program.

(4)   Provide a geopolitical profile of RVN with data retrievable at any component geopolitical level (hamlet, village, district, province, military region).

(5) Provide for computer plotting of conditions pertinent to the pacification program and its related projects.

Another significant feature of the system is its interface with other, more specialized, pacification systems. HES provides much of the basic data for other systems. It provides the primary identification numbers for all geopolitical levels as well as geographic coordinates. It also serves as a check on data from systems dealing in more detail with certain aspects of pacification. For example, HES data on enemy guerrilla forces can be correlated with data collected by a separate system designed to identify guerrillas by strength and location.

1.2.2 System Development. The first automated Hamlet Evaluation System designed to monitor the progress of the GVN and the United States toward their goal of restoring and maintaining security, extending firm GVN administrative and political control, and advancing social and economic well-being of the Vietnamese people was developed by MACCORDS-RAD, at the direction of the Secretary of Defense and COMUSMACV, and implemented in January 1967. Prior to this, the only source of data pertinent to the planning, management, and effectiveness of the pacification program was a manual attempt by the Government of Vietnam (GVN) to collect and analyze field reports.

During two years of operation of this HES (Automated System R1Ø), it became evident that certain features of the system could be improved, particularly in the area of coverage and method of rating. Rather than modify the existing system, a completely new system (automated system R7Ø-79) was designed and developed, extensively tested and modified, and subsequently implemented in January 1970, thereby supplanting its predecessor system R1Ø. HES/70, as the new system was termed, increased the objectivity and specificity of HES data; expanded the data base to include more functional areas of pacification; centralized the methodology for evaluation of pacification and made it uniform throughout the country; and increased the management utility of the system by producing reports specifically for field use and command users. While HES R1Ø had rated only hamlets (population centers), HES/70 addressed area security in addition to population security by including village level data. HES R1Ø had been a relatively simple, subjective system involving ratings that were both subjective and multi-dimensional; HES/70 provided a more objective and uni-dimensional question set with all scoring done centrally. HES/70 represented a much more objective and highly sophisticated application of statistical concepts. *

HES/70 was designed as an evolutionary and flexible system. Recognizing that counter-insurgency warfare is dynamic and ever-changing, and that the pacification activities within Vietnam are continually changing as emphasis switches from military to political to economic development aspects, it was expected that the HES Question Set and system models would undergo modification to reflect pacification as accurately as possible. Other anticipated modifications to HES/70 included the development of bilingual English/Vietnamese reports and additional refinements to ensure maximum system responsiveness and data reliability.

In October 1970, the Deputy to COMUSMACV for CORDS (DEPCORDS/MACV) asked that a study be conducted to determine the feasibility of changing HES/70, which was designed to focus upon the military presence and activity of both friendly and enemy foces, with the political situation being a secondary consideration, so that political considerations, especially those related to countering enemy terrorism and the Viet Cong Infrastructure (VCI), would have more effect on the overall HES rating, thus making HES more sensitive to changes in the political situation. In December 1970, RAD developed a method of placing more emphasis upon political presence and activity in arriving at an overall HES rating. This method is referred to as the HES reaggregation. The HES reaggregation for 1971 was approved by DEPCORDS/MACV in December and by the GVN in January to be effective 1 January 1971. The first official reaggregated reports were produced in February using January HES data.

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* Refer to the Hamlet Evaluation System (HES) Command Manual, MACV Document Number R1Ø, CM-Ø1A, published 1 May 1969, for a detailed description of the original HES. HES/70 was documented in the Hamlet Evaluation System 1970 (HES/70) Command Manual, MACV Document Number DAR R7Ø-79, CM-Ø1A, unofficially published and distributed as interim documentation for HES as of 1 September 1970.

Essentially, HES has been modified to more accurately reflect the Vietnam security and development situation postulated for 1971-1972; specifically, results of the increased enemy emphasis on terrorism and the work of their infrastructure. The revised HES gives equal importance to the military and political situations in arriving at an overall HES rating. A second change to HES, not directly related to the reaggregation process, has been the addition of 29 quarterly questions to the HES Question Set in order to gather information about particular GVN programs. These questions are not scored, and have no effect on HES ratings. Other refinements include the continuing development of bilingual output reports, the addition of several new reports and the deletion of others that were formerly produced and no longer required, and the capability to ask one-time only questions on a monthly basis, when desired.

The principal changes made to HES for 1971 can be summed up as follows:

(a) Using the reaggregation technique, which is described in more detail in paragraph 1. 7 below, military and political considerations are equally important in arriving at a Security rating and an overall HES rating. In HES/70, the military considerations were more important.

(b) In arriving at a Political rating (Political model), the friendly political and enemy political situations are equally important. In HES/70, the friendly political situation was more important.

(c) A new Community Development rating has replaced the Socio-Economic rating used in HES/70. This Community Development rating, in addition to measuring social and economic progress, also considers the effect of the overall friendly political situation and the effect of specific political programs.

(d) The highest level rating is now referred to as the HES Rating rather than the Pacification Rating. The Security rating, derived by combining the Military and Political ratings, is the principal determinant of the overall HES Rating. Only if the Community Development rating is much higher or lower than the Security rating will it be permitted to influence the HES Rating.

1.3   System Operation.

HES is often referred to as a "computer-assisted" system because the computer is only one of many aspects of the system. The system operates on a monthly production cycle with many parts of that cycle consisting of manual operations. As described in Section 2 of this manual, HES is a highly integrated man-machine interface. The importance of this interface is evident in the monthly cycle of activities.

Data arrives in Saigon from the provinces, districts, and autonomous cities covered by HES in time to permit processing the changes and preparing updated printouts for return to the field on a workable monthly cycle. Figure 1-1 illustrates these operations in the cycle, showing the flow of HES data required by the system through the organizations responsible for the preparation and processing of the data. A general description of data sources, source document completion and submission, data review and processing, and HES Update Forms and reports production is given in the paragraphs below.

1.3.1   Data Sources. HES data originates at the hamlet and village level with information gathered throughout the month from various sources by the District Senior Advisors (DSAs). The DSA is tasked with the responsibility of reporting monthly on all villages and hamlets in his district except those hamlets that are designated as abandoned. The DSA is required to answer four military related questions for each village and 21 military/political questions for each hamlet every month. If special "one-time" only questions are provided, he must also answer these. General descriptive data (hamlet/village name, hamlet location (UTM coordinates), and population data) is also updated monthly. An additional 59 hamlet level and 81 village level questions covering all areas of pacification are required to be answered quarterly. In order to answer these questions, the DSA, in conjunction with the GVN District Chief, visits the hamlets and

3

villages within his district. For numerous reasons, a DSA may not be able to personally obtain all necessary information for each hamlet and village every month, and therefore must rely to some extent on field sources of information. Although most information is from the DSA's personal visits, other sources include interviews with Rural Development Cadre and Hoi Chanhs, district and village chiefs, and GVN civilian and military field personnel who oversee various economic and security programs in the hamlets. In addition, the DSA obtains information from US and Free World Military Assistance Forces (FWMAF) and civilian field personnel such as USAID advisors.

The DSA collects monthly data from approximately the 3rd to the 23rd of each month, entering the HES question responses on his HES Hamlet and Village Ledger Cards in preparation for ultimate submission of the data to MACCORDS-RAD. (See Appendix B for information related to the HES Question Set and HES Hamlet and Village Ledger Cards.)

1.3.2 Source Document Completion and Submission. The DSA receives computer-printed HES Update Forms near the end of each month, and transfers all monthly question responses to the Update Forms from the HES ledger cards after the 30th of the month. Every quarter, quarterly question responses on the ledger cards are compared with those pre-printed on the Update Forms from the last submission. Current entries that differ from those given previously are transferred to the current Update Forms. * The DSA also records any changes to hamlet data, such as population, location, or name, and hamlet deletions, additions, or transfers. Any remarks or explanations of unusual changes are entered on the remarks page (Section A - Communications) of the Update Forms. When all the data has been recorded on the Update Forms, the DSA signs the forms, retains a carbon copy for his records, and forwards the original forms and two carbon copies to the Province Senior Advisor (PSA). The forms are due at Province Headquarters on the 2nd of the month.

The PSA collects forms for all districts, reviews the DSAs' responses, enters any province comments, signs the forms, retains a carbon copy of each, and submits the originals and one carbon to Region Headquarters by the 4th of the month. Region Headquarters reviews the forms, ensures that all forms have been received from Province Headquarters, retains a carbon copy, and submits all the original Update Forms to MACCORDS-RAD/Automatic Data Processing Division (MACCORDS-RAD/ADP) in Saigon by the 5th of the month. MACCORDS-RAD/ADP then delivers the forms to MACCORDS-RAD/A for processing.

1.3.3 Data Review and Processing. Upon receipt of the Update Forms, MACCORDS-RAD/A personnel log in the source documents, ensuring that all have been received, and perform a thorough review of the data for accuracy prior to submission for keypunching. During this quality control review, the analysts examine such items as transfers of population among hamlets, as well as deletions and additions of hamlets and villages, and perform a general check for completeness and legibility. Also, HES Newsletters containing messages to the DSAs are written, and messages to appear on the Update Forms are coded. The DSAs' question responses are then formatted for keypunching, and the prepared data is logged out and submitted, by the 10th of the month, to the Military Assistance Command Data Management Agency (DMA) for data processing. The source documents are controlled in and out of DMA by assignment of job numbers and log book entries. DMA punches and verifies the source data from the source documents. These keypunched and verified HES activity cards are one of the prime data inputs to the computer processing system. Keypunched data and edit error listings are returned to MACCORDS-RAD/A for manual edit correction against original Update Forms prior to subsequent system processing. MACCORDS-RAD/ADP retains the source documents as back-up for 90 days, then destroys them. The HES activity cards are retained at DMA for use in the computer processing cycle. As soon as a new cycle has been successfully completed, the cards are returned to MACCORDS-RAD/ADP where they are retained for 90 days, then destroyed. Data review, keypunching, and data editing operations occur from the 5th to around the 10th of the month. During the last month of each quarter, when the DSAs submit their quarterly responses, these operations may take somewhat longer due to the increased volume of data. Processing includes programs for updating the HES Basic Master File, scoring and computing ratings for the HES models, validating current month summary data, production of Update Forms, and production of HES reports.

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* It should be noted that quarterly data may be updated during non-quarterly months.

4
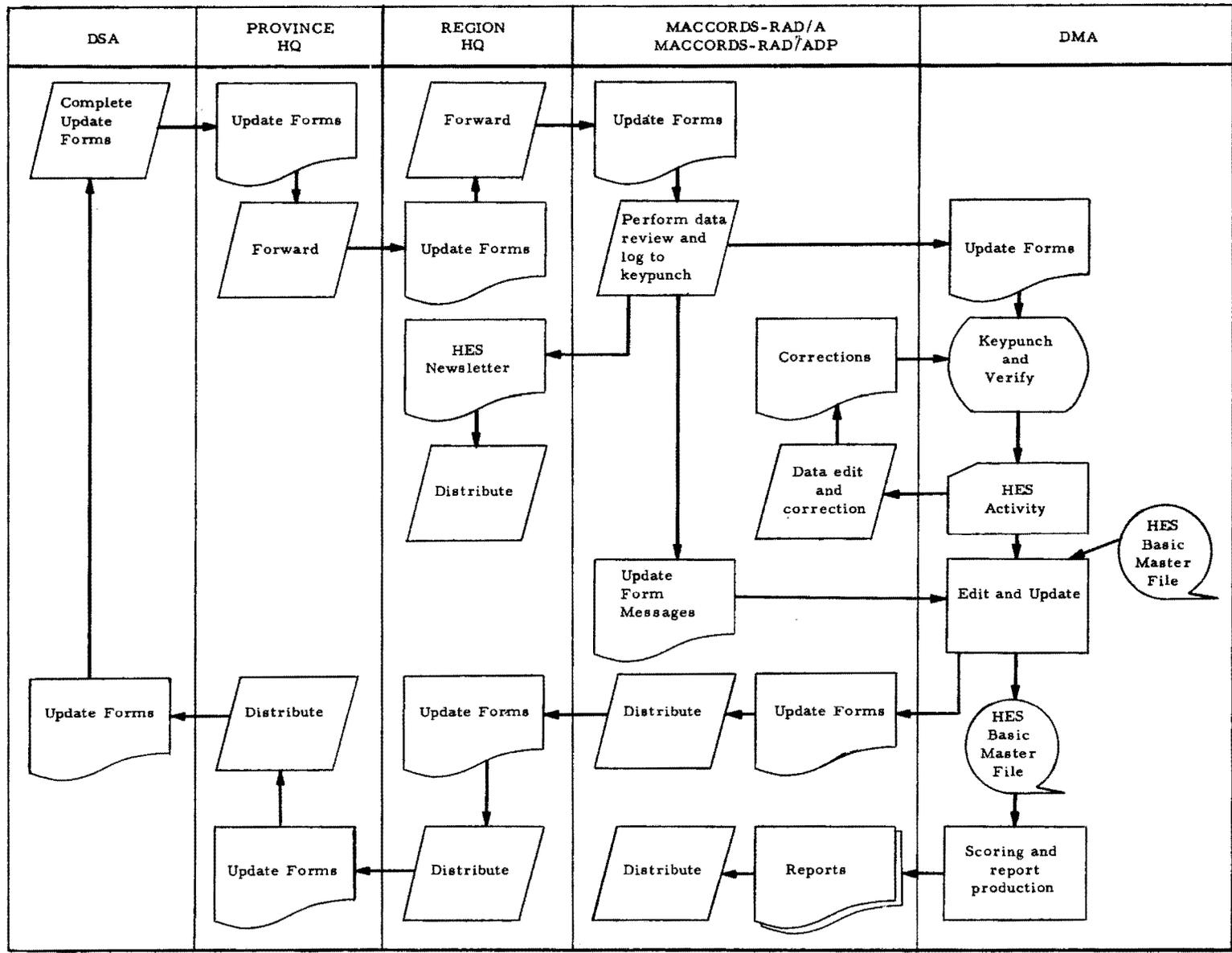
Figure 1-1
HES INFORMATION FLOW CHART

DSA	PROVINCE HQ	REGION HQ	MACCORDS-RAD/A MACCORDS-RAD/ADP	DMA
Complete Update Forms	Update Forms	Forward	Update Forms	
	Forward	Update Forms	Perform data review and log to keypunch	Update Forms
		HES Newsletter	Corrections	Keypunch and Verify
		Distribute	Data edit and correction	HES Activity
			Update Form Messages	Edit and Update — HES Basic Master File
Update Forms	Distribute	Update Forms	Distribute ← Update Forms	HES Basic Master File
	Update Forms	Distribute	Distribute ← Reports	Scoring and report production

5

1.3.4   Update Forms and Reports Production.   Production of HES reports and Update Forms begins around the 13th day of each month and continues for about one week.   Reports are ready for distribution by approximately the 15th of the month and are distributed by MACCORDS-RAD/ADP to US military and government agencies, GVN agencies, and Free World Military Assistance Forces (FWMAF).   DMA produces the HES Update Forms (using current month data) for submission back to the DSA for updating during the next month's cycle.   MACCORDS-RAD/ADP distributes these forms to Region and Province Headquarters for transmittal to the DSAs for completion after the 30th of the month.

1.4   System Configuration.

HES is processed by DMA on a System 360 Model 50 computer.   Supporting equipment includes standard card punch and card verifier equipment interpreter and a card sorter.   On-line equipment includes a card reader/punch, disk units, tape drives, and a line printer.   A CALCOMP Plotter is used to produce HES hamlet maps and population density maps, and the GEOPLOT module of the Data Presentation System (DPS) is used to produce special plots.

1.5   Performance.

Because of the period of time required for processing data, HES consists of a set of separate programs rather than a collection of subroutines and linkage programs.   Programs are executed sequentially as the steps in the monthly cycle occur.   The system is comprised of over 50 computer programs whose functions include source data editing, data base maintenance, new source document (Update Forms) generation, and HES reports generation.   Requirements for data aggregation and/or display (reports or plots) are met by combinations of existing programs or by creation of new programs as required.   The HES Program Maintenance Manuals and the HES Operations Manual treat each of the system's computer programs and procedures in detail. A general description of HES subsystems is given in paragraph 1.6.

All data elements in the system (see Appendix D) are edited individually for accuracy and completeness.   Where possible, data elements defined in the system are checked absolutely, such as the United States Identification Number (USID), which is unique to each hamlet in RVN. In other cases, ranges of alphabetic and/or numeric characters are edited.   When an edit error is detected, a notation is made on the error listing, and the erroneous field is not accepted on the master file until a correction is submitted by MACCORDS-RAD/A.   Tables of possible values and ranges of characters are maintained within the programs to provide maximum validity of master file contents.

1.6   System Organization.

HES consists essentially of three subsystems: the HES Analysis Subsystem, HES Master File Subsystem, and HES Output Subsystem, as described below:

   (a)   HES Analysis Subsystem - This portion of the system consists of computer programs that function to produce the HES Update Forms (to serve as input to the next month's cycle), and listings and reports used by MACCORDS-RAD/A analysts for scoring and statistical purposes.

   (b)   HES Master File Subsystem - This subsystem consists of computer programs that edit, update, and audit the HES Basic Master File, detect and rectify anomalies in the scored base data master, and perform scoring of the current month's responses.

   (c)   HES Output Subsystem - This subsystem consists of computer programs that function to produce the management and summary reports output by HES.   Also included are two programs that select desired data and produce a tape for production of hamlet maps, density maps, and special plots.

6

1.7   Data Base.

The HES data base contains all information collected from the DSAs' responses on the Update Forms since the inception of the system in January 1970 as well as unofficial data dating from July 1969 collected during the life of the original HES, automated system R1Ø. The data base consists of responses to the 139 questions contained in the HES/70 Questionnaire which were asked through December 1970, and responses to the 165 questions currently contained in the HES Question Set (and to one-time only questions) which have been asked since January 1971. The current 165 questions cover three areas of pacification: military, political, and community development. These three broad areas are further divided into lower-level functional areas as shown in Figure 1-2. There are 30 of these areas at five hierarchical levels, referred to in HES terminology as models. The HES questions are divided into four categories, answered accordingly by the DSAs: hamlet monthly, hamlet quarterly, village monthly, and village quarterly (see Appendix B for the HES Question Set and information related to reporting responses to the questions).

One of the most significant features of HES is the flexibility of the data base and model structure. Part of the design criteria for the system was the requirement to be able to add or delete both questions and models as specified, since only then would the system be responsive to the changing conditions in the countryside as the insurgency increased or diminished. This flexibility allows the system to be readily modified when new functional areas within pacification are identified and in need of measurement, or when there is a shift in emphasis such as the increased emphasis on political conditions in the 1971 environment. The HES Question Set and models have been modified accordingly for 1971, and can be modified in the future, as required. Twenty-nine new questions have been included in the revised HES solely for the information content of the response, and others can be added if required.

The reaggregation technique for the 1971 HES involves changes in the method of combining various HES models and sub-models to arrive at higher level ratings, or letter grades. The aggregation of HES/70 yielded Level 3 models in three areas: Security, Political, and Socio-Economic. These then yielded a Level 4 model of Pacification. The HES reaggregation increases the emphasis on the political models. A Community Development rating at Level 3 was added, to combine with the Level 4 Security rating to yield an overall HES Rating at Level 5. The changes that have been made involve the relationships between some of the models, the names of some of the models, and the creation of two new models: Political Programs and Community Development. The method of scoring questions at Level 1 (see Appendix C) has not been altered.

The Level 3 models and sub-model relationships in the HES reaggregation (shown in Figure 1-2) may be explained as follows:

(1)   Military model. The HES/70 Level 3 Security model was redesignated Military to emphasize the fact that the constituent questions refer primarily to the presence and activity of enemy and friendly military and para-military units. No changes were made to the aggregation logic within the Military model except for the deletion of a Law Enforcement Level 1 sub-model formerly under the Friendly Military Level 2 model. This was eliminated because the National Police are targeted primarily against civil offenders and the VCI rather than against enemy military units; therefore, this sub-model is now logically included as a sub-model under the Friendly Political Level 2 model.

(2)   Political model. This model rating is obtained by combining the Enemy Political and Friendly Political Level 2 models ratings. The Enemy Political model was not changed; however, a number of changes were made to the Friendly Political model. The Information/PSYOPS, RD Cadre, and PSDF Activity submodels formerly under Friendly Political were moved under a new Level 2 model, Political Programs, which is in turn part of the Level 3 Community Development model, discussed below. The Friendly Political rating is derived by combining the ratings from the Administration, Law Enforcement, and Political Mobilization Level 1 sub-models.

7

LEVEL 5 MODEL	LEVEL 4 MODEL	LEVEL 3 MODELS	LEVEL 2 MODELS	LEVEL 1 SUB-MODELS

```
LEVEL 5         LEVEL 4         LEVEL 3         LEVEL 2         LEVEL 1
MODEL           MODEL           MODELS          MODELS          SUB-MODELS

                                                                Enemy Military Presence
                                                Enemy
                                                Military
                                                                Enemy Military Activity

                                                                Friendly Military Activity
                                                Friendly
                                Military        Military        Friendly Military Presence

                                                                PSDF Activity

                                                                Impact of Military Activity

                Security

                                                                Enemy Political Presence
                                                Enemy
                                                Political
                                                                Enemy Political Activity

                                                                Administration
                                Political       Friendly
                                                Political        Law Enforcement

                                                                Political Mobilization
HES
RATING
                                                                Development Assistance

                                                                Land Tenure
                                                Political
                                                Programs        PSDF Activity

                                                                Information/PSYOPS
                Community
                Development                                     RD Cadre

                                                                Public Health

                                                Social          Education
                                                Programs
                                                                Social Welfare

                                                                Economic Activity
```

Figure 1-2
HES MODEL HIERARCHY

8

(3)   Community Development model.   The HES/70 Level 3 Socio-Economic model was
expanded and redesignated Community Development.   This model rating is based
on three Level 2 model ratings: Friendly Political, Political Programs (a new
model), and Social Programs, and the Economic Activity Level 1 sub-model rating.
The Friendly Political model rating, which is also used in arriving at the Political
rating, represents the essential administrative element for GVN support of com-
munity development.   Political Programs is a new model which describes the com-
bined effectiveness of five key political programs.   Three of these - Information/
PSYOPS, RD Cadre, and PSDF Activity - were sub-models formerly under the
Friendly Political model.   The other two programs - Land Tenure and Development
Assistance (Village Self Development), which were formerly sub-models under a
Level 2 Economic model - relate primarily to political rather than economic affairs,
and are therefore included under Political Programs.   The Economic Activity Level
1 sub-model and the Level 1 sub-models under the Social Programs Level 2 model
remain unchanged in the new aggregation logic.

In the 1971 HES, the Level 4 Security rating is developed by combining the Military
and Political model ratings.   The Level 5 HES Rating replaces the HES/70 Level 4 Pacification
rating.   In general, the HES Rating will be the same as the new Security rating.   The Community
Development rating will be permitted to influence the HES Rating only in those situations where
the Community Development rating is appreciably higher or lower than the Security rating.   For
a listing of all the data elements contained in the system, see Appendix D.

1.8   General Description of Inputs, Processing, and Outputs.

Inputs generated by the DSAs for HES are occasioned by a change of status of any of
the data elements, such as increased enemy activity affecting a hamlet or a simple change in
population count.   The HES historical master files contain all information reported into the
system since July 1969.   Thus, the current month master file retains all data elements for each
hamlet and village since its entry into the file.

The HES processing cycle is monthly, with the source documents (HES Update Forms)
delivered to MACCORDS-RAD around the 5th of each month and reports production completed
approximately ten days later.

HES production consists of the monthly Update Forms; a variety of monthly management
and summary reports, plots, and maps; special reports as required; and diagnostic reports,
used in system analysis, maintenance, and validation.

The relationship of system input to output is depicted in Figure 1-1, which shows the
flow of data through the system.   Detailed descriptions and samples of input and output are con-
tained in Section 2 of this manual.   Appendix B contains samples of the DSAs' HES Hamlet and
Village Ledger Cards, which are not input to the computer system itself but must be considered
as associated system input.

9

2 STAFF FUNCTIONS RELATED TO TECHNICAL OPERATIONS

This section includes information on staff functions related to the preparation of input to HES, input requirements, output characteristics, and utilization of system output.

As stated previously, HES is often referred to as "computer assisted" because the computer is only one of many aspects of the system. The following paragraphs emphasize the Automatic Data Processing (ADP) aspects of HES, focusing upon system input and output requirements. The manual (i.e., "computer-assisted") operations related to the preparation of system input and associated system output are described in greater detail later in this section. In the discussions that follow, references will be made to the applicable appendixes containing additional information on staff functions and procedures.

2.1 Staff Input Requirements.

The following paragraphs present requirements to be met by staff personnel as indicated in preparing entries to the system. The discussion covers data preparation, data review, and initial data processing (keypunching of source data, or HES activity).

Input to HES is classified CONFIDENTIAL and is treated in accordance with classified handling procedures.

2.1.1 Data Preparation - District Senior Advisor (DSA).

The DSA prepares the source documents for input to the system from the data he has collected throughout the month during his visits to hamlets and villages within his district. After receiving the forms from MACCORDS-RAD through channels, he transcribes information from the HES Hamlet and Village Ledger Cards he has maintained throughout the month onto the HES Update Forms. The DSA is guided in his reporting requirements by detailed instructions contained in the Hamlet Evaluation System (HES) Handbook, MACCORDS-RAD, June 1971. (This document also contains descriptions and samples of the ledger cards, Update Forms, and HES questions.) A general discussion of the procedures the DSA follows is given below; for specific instructions, see the HES Handbook.

The DSA completes the first part of Section A of the Update Form (Communications) by entering in the REMARKS portion any clarifying remarks concerning general trends in pacification in the district; difficulties in establishing complete and accurate lists of villages and hamlets agreeable to both the District Chief and Province Officials; situations that require a large number of HES questions to be recorded as "Unknown"; explanations for mass changes in the answers to village or hamlet quarterly update questions; problems of interpreting particular HES questions, or of answering certain questions due to special situations that arise in the district; and procedural problems related to the completion or the submission of the monthly forms. In addition, the DSA will also enter under "Communications" clarifying remarks concerning mass changes in population (distinguishing between census changes and population movement) and pertinent background information for any requests for additions, deletions, or transfer of hamlets to or from villages.

The second part of Section A (Hamlet Roster) is updated from data recorded in the "Hamlet Roster" section of the Village Ledger Card and from the Hamlet Ledger Cards. Necessary corrections to the Update Forms are made by lining out the preprinted old (now incorrect) information and writing in the new (corrected) information directly above the old. Such changes include the correction of a hamlet name, UTM coordinates, and hamlet population, as well as changes to non-hamlet population (the latest estimate is written in directly above the old). In the space provided, the DSA records an explanation of non-hamlet population (all non-zero entries). He also enters the addition of any new hamlets below the total village population. Under the column headed 'ID OF VILLAGE WITH WHICH HAMLET IS CENSUSED', the DSA enters the administrative status of each hamlet if a change has occurred ('NOT CENSUSED', 'ABANDONED', the USID of the village administering the hamlet, or blank). Special instructions concerning the procedures for reporting village level subdivisions (changes in village boundaries, dissolution of a village, creation of a new village, movement of a village to a new location) and hamlet level subdivisions (movement of a hamlet to a new location, transfer of a hamlet to an-

other village, abandoned hamlets, deletion and addition of hamlets, planned hamlets), are contained in the DSAs' HES Handbook. Also included is an explanation of the technique for reporting changes to the Hamlet Roster.

Section B (Monthly Report Form) of the HES Update Form is completed by reporting the answers to the hamlet monthly and village monthly questions (see Appendix B). Section B contains a separate page for each village in the district, with the first line of each page blocked out for recording the answers to the village level questions. The DSA transcribes to this line the code numbers of the answers to these questions as recorded on the front side of the Village Ledger Card. Additional lines are blocked out, one for each populated hamlet in the village, for recording the answers to the hamlet level questions. (Hamlets with zero population are not listed in Section B, and no monthly report is required for such hamlets.) The DSA transcribes to these lines the code numbers of the answers as recorded on the front side of the Hamlet Ledger Cards. The transfer of monthly responses from the ledger cards to the Update Forms is explained in the HES Handbook. If the prior month's Update Form Communications page contained (under INSTRUCTIONS) special one-time hamlet or village questions, the DSA enters the code numbers of the answers to these questions in the special response blocks for Topic Group MZ questions provided in Section B. A list of possible responses will have appeared below the text of the question, printed out on the prior month's Update Form Communications page.

Section C (Quarterly Report Form) of the HES Update Form contains response blocks for village level quarterly and for hamlet level quarterly questions, with answers as given for the previous quarter to facilitate exception reporting of changes. If changes to the answers of the quarterly questions (see Appendix B) were noted for a village or hamlet during the quarter, the DSA transcribes these changes from the ledger cards to the Update Form by lining out the old response code and entering the new response code above the old. The technique used to transfer a change in an answer to a quarterly question from the ledger card to the corresponding response block on the HES Update Form is explained in the HES Handbook.

Refer to Appendix B of this manual for additional information concerning source document preparation, and to paragraphs 2.4 and 2.5 for a description and sample of the HES Update Forms.

After insuring that the information he has reported on the HES Update Forms is complete, accurate, and legibly recorded, the DSA signs the report on the second page of Section A (Communications Section), and submits the original and two copies (retaining a third copy for his records) to the Province Senior Advisor (PSA) for transmittal through channels to MAC-CORDS-RAD.

2.1.2   Data Preparation - Province Senior Advisor (PSA) and Region Headquarters. The PSA receives the HES Update Forms from the DSAs and insures that forms have been completed for all hamlets and villages in the province, including those under enemy control. He checks the DSAs' comments in Section A (Communications Section) for legibility and completeness, and reviews Section B of the form for each district to insure that required monthly responses have been completed for all hamlets and villages listed. After reviewing the forms, he may record pertinent comments or amplifying remarks in the space provided in Section A of the form for each district. (No alterations to DSA responses are to be made by the PSA, however.) The remarks of the PSA may concern any of the following: a province-level perspective on problems noted by the DSA (if any), summarizing any actions either planned or under way to alleviate the problem; concurrence or non-concurrence with any requests of DSAs to drop hamlets from the Hamlet Roster (first establishing with GVN officials whether the hamlets have been dropped from official administrative records at both district and province levels); a subjective evaluation of the reliability of the district's reports, perhaps mentioning the level of experience of the DSA and his team, observations as to the thoroughness of data collection and review procedures, and results of independent province level validation studies; and suggestions as to ways in which HES can be improved to make the overall system more useful to province advisory personnel, such as ideas for improved questions or specialized management reports. After completing his review of the forms for each district, and recording any remarks of his own, the PSA signs the forms in the space provided in Section A and transmits the original and one carbon copy of each (retaining a copy for his files) to Region Headquarters.

11

Region Headquarters collects and consolidates all the HES Update Forms into one package for forwarding to MACCORDS-RAD. The original copies are forwarded, and a carbon is retained for the files.

2.1.3   Data Review - MACCORDS-RAD/Analysis Section Personnel.   Personnel in MACCORDS-RAD/A log in the source documents when they are received, and conduct a quality control review of the source documents prior to processing the forms for submission to DMA for keypunching. A general check for completeness and legibility is performed. As the data review is conducted, review personnel check changes made by the DSA and prepare the necessary keypunch and job request forms for insertion of the updated information into the system. Briefly, the review consists of examining the accuracy and adequacy of data recorded in Sections A, B, and C of the HES Update Forms, performing the necessary special review operations, and generating messages to the PSAs and DSAs.

Review personnel check Section A (Communications) for changes in district or province level data and district or province additions and deletions, and prepare keypunch forms accordingly. Similarly, Section A (Hamlet Roster) is checked for changes in province, district, village or hamlet names; UTM coordinates; GVN serial numbers; hamlet, non-hamlet, and total village population; administrative status; and village or hamlet additions, deletions, and transfers. Section B (Monthly Report Form) and Section C (Quarterly Report Form) are checked for unclear or improper responses to questions, response omissions, name and USID changes, and hamlet or village transfers, additions, or deletions. Special review procedures include the review and processing of changes for military region additions and deletions; province or district additions, deletions, and transfers; village or hamlet additions, deletions, transfers, and consolidations, and changes in Administrative ID numbers.

MACCORDS-RAD/A review personnel also read all messages from the previous month written by MACCORDS-RAD to the DSAs and PSAs in the space headed REMARKS provided in Section A (Communications) of the Update Form, and check to see that these messages have been complied with. Similarly, they check that one-time questions asked the previous month, if any, written in the space headed INSTRUCTIONS in Section A (Communications) have been answered in the current month's Section B of the Update Form. They also read all current month's messages sent to MACCORDS-RAD by the DSAs and PSAs (written on page 2 of Section A) and check to see that comments pertinent to the data review of Sections A (Hamlet Roster), B, and C have been noted in the appropriate sections of the forms. Finally, messages are prepared in answer to problems or situations cited by the DSA and/or PSA. General, special, and/or one-time reporting instructions which are directive in nature; special one-time questions which require a response the following month; and technical remarks such as requests for clarification of previously submitted information, acknowledgement of previous advisor comments, and/or instructions for handling special problems that may have arisen in the submission of the HES Update Form for the district are to appear on Section A (Communications) of the Update Form, and are written and processed by MACCORDS-RAD/A personnel. Remarks dealing with specific non-technical comments or problems of individual DSAs or PSAs are written by MACCORDS-RAD/A analysts to appear in the monthly (non-computer printed) HES Newsletter.

The review of the HES Update Forms, accomplished by MACCORDS-RAD/A analysts and technical aides, normally requires 12 man/days to complete for monthly reviews, and 15 man/days for quarterly reviews. Following review, the Update Forms and keypunch forms are logged to DMA for keypunching.

2.1.4   Initial Data Processing - DMA.   DMA keypunches and verifies cards from the source documents according to the formats provided by MACCORDS-RAD. Detailed keypunch instructions are included in the HES Operations Manual. The source documents are returned to MACCORDS-RAD/A review monitors, and the punched cards (HES activity) are held for the edit process.

2.2   Composition Rules.

In preparing the HES Update Forms, the DSAs are requested to use a ball point pen or blue ink, to contrast with the black computer print. It is important that all entries be legible to MACCORDS-RAD/A and DMA personnel who transcribe the data to punched card form. For the same reason, review personnel use red, blue, or green felt markers for entering changes on the Update Forms to insure legibility and reduce the possibility of omission of changes by DMA. In completing the necessary keypunch forms, review personnel should observe the following conventions to minimize keypunch errors:

(a)   All dates should be written in standard military format (e.g., 21 SEP 71).

(b)   The numeric character "0" should be written as "∅".

(c)   The alphabetic character "O" should be written as "O".

(d)   The numeric character "1" should be written as "1".

(e)   The alphabetic character "I" should be written as "I".

(f)   The numeric character "2" should be written as "2".

(g)   The alphabetic character "Z" should be written as "Z".

2.3   Vocabulary.

Acronyms and abbreviations used in this manual are shown in Appendix A.

2.4   Input Formats.

The formats of HES source documents, source data, and data base files are discussed in the paragraphs below. References to figures correspond to samples of input included in paragraph 2.5 of this manual.

2.4.1   Source Document - HES Update Form. This form provides the vehicle for updating HES information each month, and is keyed to the format of the HES Village and Hamlet Ledger Cards (see Appendix B). The computer-printed monthly form consists of three sections: Section A contains the Communications pages and the Hamlet Roster; Section B, the Monthly Report Form, contains blanks for recording responses to the HES Question Set monthly questions (and to special one-time questions asked the previous month, if any); and Section C, the Quarterly Report Form, contains preprinted responses from the previous quarter for recording changes to quarterly questions. Changes to be made to the HES data base are submitted on the Update Form (for update procedures, refer to paragraph 2.1.1), from which HES activity cards (source data) are then punched. The format of the Update Form is discussed below, with text keyed numerically to Figures 2-1 through 2-6 in paragraph 2.5. Items listed in (a)(1) through (5) below appear on each page of the Update Form. Unique items are listed under (b) through (g) beginning with (6).

(a)   Report Headings. Computer-printed headings include the following:

(1)   Report title

(2)   Section designator and description

(3)   Date of data to be entered

(4)   Province ID and name

(5)   District ID and name

13

(b) Report Contents for Section A - Communications, Page 1 (see Figure 2-1):

    (6) General instructions for completion of forms; special instructions from MACCORDS-RAD pertaining to completion/submission of the forms; special one-time questions, when used.

    (7) Specific instructions/remarks to selected military region, province, and district from MACCORDS-RAD.

(c) Report Contents for Section A - Communications, Page 2 (see Figure 2-2):

    (6) Remarks from the DSA and PSA to MACCORDS-RAD

    (7) Signatures of the DSA and PSA

    (8) Space to enter changes to the name, rank, or date of eligibility for return from overseas (DEROS) of the DSA and PSA

(d) Report Contents for Section A - Hamlet Roster (see Figure 2-3):

    (6) Village ID and name

    (7) Village and hamlet ID number (four-digit village and hamlet portion of the nine-digit USID number)

    (8) Hamlet name

    (9) GVN serial numbers (three-digit number assigned to selected hamlets recognized by the GVN)

    (10) UTM coordinates of the hamlet population center

    (11) Number of persons permanently residing in the hamlet

    (12) Number of persons temporarily residing in the hamlet

    (13) Number of persons in the village not living in or considered as living in hamlets

    (14) Blank space for recording remarks concerning non-hamlet population components (explanation of non-hamlet population)

    (15) Total village population

    (16) ID of village with which hamlet is censused (or the remarks 'NOT CENSUSED' or 'ABANDONED', or blank).

(e) Report Contents for Section B - Monthly Report Form (see Figure 2-4):

    (6) Village ID number

    (7) Village name

    (8) Village-level monthly responses to questions concerning enemy activity

    (9) Village-level monthly responses to questions concerning friendly activity

    (10) Village-level monthly responses to one-time questions (Topic Group MZ)

14

(11) Village and hamlet ID number (four-digit village and hamlet portion of the nine-digit USID number)

(12) Hamlet name

(13) Hamlet-level monthly responses to general questions

(14) Hamlet-level monthly responses to questions concerning enemy activity

(15) Hamlet-level monthly responses to questions concerning friendly activity

(16) Hamlet-level monthly responses to questions concerning impact of military activities.

(17) Hamlet-level monthly responses to one-time questions (Topic Group MZ)

(f) Report Contents for Section C - Quarterly Report Form - Village Data (see Figure 2-5):

(6) Village ID and name

(7) Responses to village quarterly questions, presented by topic groups, or specific aspects of pacification, as shown.

A new page is begun for each village. Responses from the previous quarter are preprinted and retained unless changes have been entered by the DSA. The record of village-level answers is followed by records for each hamlet in the village (see (g) below).

(g) Report Contents for Section C - Quarterly Report Forms - Hamlet Data (see Figure 2-6):

(6) Village name

(7) Hamlet name and ID (the four-digit village and hamlet portion of the nine-digit USID)

(8) Hamlet quarterly responses to general questions

(9) Other hamlet quarterly responses (all hamlet quarterly questions are also presented by topic groups, or specific aspects of pacification, as shown). Previous responses are preprinted and retained unless changes have been entered by the DSA.

2.4.2   Source Document - 80-Column Keypunch Forms. HES activity cards are keypunched by DMA from Sections A, B, and C of the HES Update Forms (described in paragraph 2.4.1 above), and from 80-column forms prepared by MACCORDS-RAD/A review personnel. There are five types of keypunch forms that serve as source documents from which activity cards are punched to reflect hamlet, village, and district/province descriptive data changes, ID number transfers and deactivations, and messages to appear in Section A - Communications of the Update Form; a sixth type of keypunch form is completed to reflect changes in administrative ID numbers.

2.4.3   Data Base Files. HES is built around a master file containing variable length records. The HES Basic Master File contains all basic data as reported to the system and the computed ratings for each of the HES models. The file is historical and thus contains all the data reported for each month. All changes to be made to the HES data base are submitted on the HES Update Form, described in paragraph 2.4.1 above. Once the HES Basic Master File is updated, all report requests are produced from the new file.

The file consists of two parts with the first portion, called the Q-TAB or question table, being made up of a set of records that describe the content and order of all questions and models in the system. A record containing summaries from which the sizes of all variable records can be obtained is followed by six variable-length records that define the characteristics of the questions and models. The second part of the HES Basic Master File contains the data records for each geopolitical unit (RVN, region, province, district, village, hamlet), sorted into USID sequence. The data record for each unit consists of individual data record types, distinguished by record code, which contain the responses to monthly questions, quarterly questions, unit descriptive data, and unit model ratings. For a listing of data base elements, see Appendix D.

2.5   Sample Inputs.

Figures 2-1 through 2-6 are samples of HES source document input. These figures illustrate pages of the bilingual HES Update Form from which activity cards are punched; record contents of these figures are numerically keyed to the text of paragraphs 2.4.1 (a) through 2.4.1 (g). Figure 2-7 illustrates the structure of the data contained in the HES Basic Master File. None of the figures that follow contain classified information.

2.6   Output Requirements.

The system automatically produces computer-printed error listings and monthly reports for internal use by MACCORDS-RAD/A staff personnel in data review and for scoring and statistical analyses; monthly management reports and plots for distribution to MACCORDS-RAD and other users of HES data; the HES Update Forms, which serve as input to the next month's processing cycle; temporary and permanent files used by the system in generating this output; and updated data base master files (see paragraph 1.7). In addition to the reports regularly produced, the system can generate standard reports and plots with options as specified by the user (such as To and From dates, geopolitical level of data to be included, and content and sequence of information to be presented), and special reports and information upon request.

The requirements to be met, and the necessary forms that must be prepared, by users in requesting and obtaining standard reports and plots are contained in the User's Guide to the Hamlet Evaluation System (HES), MACCORDS-RAD, June 1971. Requirements to be met by the user in conjunction with MACCORDS-RAD staff personnel in requesting and obtaining special HES reports or data analyses are also given in the User's Guide to HES.

With the exception of the HES Gazetteer, which is unclassified, HES computer output reports are classified CONFIDENTIAL, and are treated in accordance with classified handling procedures. Information is downgraded to unclassified after ninety days. Reports are distributed by MACCORDS-RAD/ADP to the users, and the HES Update Forms are returned to Region Headquarters for further distribution through the Province Senior Advisors to the districts. In addition, a magnetic tape copy of the HES reports are sent to NMCSSC in Washington.

Section III of the User's Guide to HES is devoted to discussions of each of the HES reports. A statement of each report's purpose, a description of each, a discussion of the report's utility, and a sample of each reports is given. Of these reports, several have been selected for inclusion in this Command Manual to illustrate the type of data reported by the system. These reports and plots are described in paragraph 2.7, and unclassified samples are contained in paragraph 2.8.

2.7   Output Formats.

Primary outputs from HES and output formats are briefly described in the paragraphs that follow. For samples of these reports and plots, see paragraph 2.8.

2.7.1   HES Update Form. The HES Update Form has been previously described in paragraph 2.4.1 and illustrated in Figures 2-1 through 2-6. Answers (in Section C) from the last quarter are preprinted to facilitate exception reporting.

THE SPACE BELOW IS PROVIDED FOR COMMENTS BY THE DISTRICT SENIOR   * THE SPACE BELOW IS PROVIDED FOR COMMENTS BY THE PROVINCE SENIOR
ADVISOR (DSA) --- PHAN DUOT DAY DANH CHO LUONG GIA VIEN CAP QUAN   * ADVISOR (PSA) --- PHAN DUOT DAY DANH CHO XAC-NHAN VIEN CAP TINH
PHE BINH.   * PHE BINH VE CAC DU-KIEN.

* PSA CONCURS WITH DSA EXCEPT AS NOTED ABOVE / TOI DONG Y VE CAC
* DU-KIEN DO LUONG GIA VIEN GHI NHAN TRU PHAN NHAN XET O TREN.

SIGNATURE / CHU KY   *   SIGNATURE / CHU KY

--- *   ---

RANK, NAME, DEROS OF DSA   CPT JOHN G. JONES   12JUN71 * RANK, NAME, DEROS OF PSA   COL JOHN P. ROGERS   01AUG72
TEN VA CAP BAC CUA LUONG-GIA VIEN, VA NGAY THANG   * TEN VA CAP BAC CUA LUONG-GIA VIEN, VA NGAY THANG CUA BAO
CUA BAO CAO DAU TIEN.   * CAO DAU TIEN.

IF CHANGED, PRINT RANK, NAME   * IF CHANGED, PRINT RANK, NAME
AND DEROS OF NEW DSA / TEN VA ---------------------------------- * AND DEROS OF NEW PSA / TEN VA ----------------------------------
CAP BAC CUA XAC-NHAN VIEN, VA NGAY THANG CUA BAO CAO DAU TIEN.   * CAP BAC CUA XAC-NHAN VIEN, VA NGAY THANG CUA BAO CAO DAU TIEN.

Figure 2-1
HES UPDATE FORM - SECTION (Page 1, Communications)

INSTRUCTIONS / CHI-THI.   * REMARKS / CHU THICH.
                                                                 *
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Figure 2-2
HES UPDATE FORM - SECTION A (Page 2, Communications)

18

SO NHAN DANH HLA	TEN AP	TOA DO	*-------DAN SO------*		SO NHAN DANH XA MA AP TRUC THUOC VE HANH CHANH
			DAN THUONG CU	DAN TAM CU	
HES HAMLET ID NUMBER	HAMLET NAME	UTM COORDS	*-----POPULATION-----*		ID OF VILLAGE WITH WHICH HAMLET IS CENSUSED
			PERMANENT RESIDENTS	TEMPORARY RESIDENTS	
0401	DONG-DONG	YD504260	201	10	101010100
0402	DIEN-KAHN	YD468523	540	0	101010400
0403	AN-NHON	YD511326	430	0	101010100
0404	XUAN-VIEN	YD532569	0	0	ABANDONED/BO TRONG
0405	KIM-GIAO	YD465835	230	0	101010100
0406	KHAN HOA	YD598532	632	0	101010100

	DAN NGOAI AP		GIAI THICH VE	
0400	NON-HAM POP	0	DAN NGOAI AP	NO NON-HAMLET POP / KHONG CO DAN NGOAI AP
	TONG SO DAN XA	2043	EXPLANATION OF	
	TOTAL VILLAGE POP	--------	NON-HAMLET POP.	

Figure 2-3
HES UPDATE FORM - SECTION A (Hamlet Roster)

DIST/QUAN - 01 - HAI LANG   HES UPDATING FORM / MAU NHAT TU / BAO CAO

                         SECTION B - MONTHLY REPORT / PHAN B - BAO CAO HANG THANG   31-12-71

VILLAGE/XA   - HAI-BA

RECORD IN THE BOXES PROVIDED, THE ANSWERS TO THE HES QUESTIONS REQUIRING MONTHLY RESPONSES FOR THE VILLAGE.
GHI VAO TRONG CAC O VUONG, CAC CAU DAP CHO CAU HOI HANG THANG CUA HLA VE XA.

```
-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*
 SO NHAN      TEN XA           *MB -    *MC -   *MZ - ONE TIME QUESTIONS              *
 DANH XA                       *        *       *        CAU HOI CHI MOT LAN          *
 VILL USID  VILLAGE NAME       * 1 . 2 * 1 . 2 * 1 . 2 . 3 . 4 . 5 . 6 . 7 . 8 . 9 . 10*
 ------------------------------*-------*-------*----.----.----.----.----.----.---.----*
                               *   .   *   .   *XXX.XXX.XXX.XXX.XXX.XXX.XXX.XXX.XXX.XXX*
   0200    HAI-BA              *   .   *   .   *XXX.XXX.XXX.XXX.XXX.XXX.XXX.XXX.XXX.XXX*
-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*
```

RECORD IN THE BOXES PROVIDED BELOW, THE ANSWERS TO THE HES QUESTIONS REQUIRING MONTHLY RESPONSES FOR EACH HAMLET IN THE VILLAGE.
GHI VAO TRONG CAC O VUONG, CAC CAU DAP CHO CAU HOI HANG THANG CUA HLA VE MOI AP TRONG XA.

```
-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*
 SO NHAN    TEN AP       *MA - *MB -                 *MC -       *MD -          *MZ - CAU HOI CHI MOT LAN  *
 DANH AP                 *     *                     *           *              * ONE    TIME   QUESTIONS   *
 HAMLET ID  HAMLET NAME  * 1   2* 1   2   3   4   5   6   7   8* 1   2   3   4* 1   2   3   4   5   6   7* 1   2   3   4   5   6   7   8   9*
 -----------------------*-----*-------------------------------*-------------*-------------------------*--------------------------------*
                         *  .  *  .   .   .   .   .   .   .   . *  .   .   .   . *  .   .   .   .   .   .  *XX.XX.XX.XX.XX.XX.XX.XX.XX*
   0201    BA DU         *  .  *  .   .   .   .   .   .   .   . *  .   .   .   . *  .   .   .   .   .   .  *XX.XX.XX.XX.XX.XX.XX.XX.XX*
 -----------------------*-----*-------------------------------*-------------*-------------------------*--------------------------------*
                         *  .  *  .   .   .   .   .   .   .   . *  .   .   .   . *  .   .   .   .   .   .  *XX.XX.XX.XX.XX.XX.XX.XX.XXX
   0202    CU-LUY        *  .  *  .   .   .   .   .   .   .   . *  .   .   .   . *  .   .   .   .   .   .  *XX.XX.XX.XX.XX.XX.XX.XX.XX*
 -----------------------*-----*-------------------------------*-------------*-------------------------*--------------------------------*
                         *  .  *  .   .   .   .   .   .   .   . *  .   .   .   . *  .   .   .   .   .   .  *XX.XX.XX.XX.XX.XX.XX.XX.XX*
   0203    DA-NGHI       *  .  *  .   .   .   .   .   .   .   . *  .   .   .   . *  .   .   .   .   .   .  *XX.XX.XX.XX.XX.XX.XX.XX.XX*
 -----------------------*-----*-------------------------------*-------------*-------------------------*--------------------------------*
                         *  .  *  .   .   .   .   .   .   .   . *  .   .   .   . *  .   .   .   .   .   .  *XX.XX.XX.XX.XX.XX.XX.XX.XX*
   0204    PHUONG LANG DUONG * . *  .   .   .   .   .   .   .   . *  .   .   .   . *  .   .   .   .   .   .  *XX.XX.XX.XX.XX.XX.XX.XX.XX*
 -----------------------*-----*-------------------------------*-------------*-------------------------*--------------------------------*
                         *  .  *  .   .   .   .   .   .   .   . *  .   .   .   . *  .   .   .   .   .   .  *XX.XX.XX.XX.XX.XX.XX.XX.XX*
   0205    PHUONG LANG TAY * .  *  .   .   .   .   .   .   .   . *  .   .   .   . *  .   .   .   .   .   .  *XX.XX.XX.XX.XX.XX.XX.XX.XX*
 -----------------------*-----*-------------------------------*-------------*-------------------------*--------------------------------*
                         *  .  *  .   .   .   .   .   .   .   . *  .   .   .   . *  .   .   .   .   .   .  *XX.XX.XX.XX.XX.XX.XX.XX.XX*
   0206    PHU HAI       *  .  *  .   .   .   .   .   .   .   . *  .   .   .   . *  .   .   .   .   .   .  *XX.XX.XX.XX.XX.XX.XX.XX.XX*
-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*
```

Figure 2-4
HES UPDATE FORM - SECTION B (Monthly Report)

20

```
             0100  -  VILL/XA - HAI-AN

                          *-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*              *-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*
                          *. 1 . 2 . 3 . 4 . 5 . 6 . 7 . 8 . 9 .10.*            *. 1 . 2 . 3 . 4 . 5 . 6 . 7 . 8 . 9 .10.*
     *---------------------*------------------------------------------*         *-----------------*------------------------------------------*
     * HIEN DIEN DICH       *.   .   .   .   .   . XXX.XXX.XXX.XXX.XXX.*         * DU AN PHAT TRIEN *.   .   .   .   .   . XXX.XXX.XXX.XXX.XXX.*
     * ENEMY PRESENCE     B *. 4 . 4 . 4 . 3 . 2 .XXX.XXX.XXX.XXX.XXX.*         * DEVELOP PROJ   N *. 3 . 4 . 4 . 1 . 4 .XXX.XXX.XXX.XXX.XXX.*
     *---------------------*------------------------------------------*         *-----------------*------------------------------------------*
     * AN NINH BAN          *.   .   .   .   .   .   . XXX.XXX.XXX.*            * Y TE             *.   .   .   .   .   . XXX.XXX.XXX.XXX.XXX.XXX.*
     * FRIENDLY SECURITY  C *. 3 . 3 . 3 . 2 . 3 . 3 . 3 .XXX.XXX.XXX.*        * PUBLIC HEALTH  P *. 3 . 3 . 3 . 2 .XXX.XXX.XXX.XXX.XXX.XXX.*
     *---------------------*------------------------------------------*         *-----------------*------------------------------------------*
     * THI HANH PHAP LUAT   *.   .   .   .   .   .   .   .   . XXX.XXX.*        * GIAO DUC         *.   .   . XXX.XXX.XXX.XXX.XXX.XXX.XXX.*
     * LAW ENFORCEMENT    D *. 2 . 3 . 5 . 3 . 5 . 5 . 3 . 4 .XXX.XXX.*        * EDUCATION      P *. 3 . 3 . 4 .XXX.XXX.XXX.XXX.XXX.XXX.XXX.*
     *---------------------*------------------------------------------*         *-----------------*------------------------------------------*
     * HANH CHANH           *.   .   .   .   .   . XXX.   .   . XXX.*          * DIEN DIA         *.   .   .   .   .   .   .   .   .   .   .*
     * ADMINISTRATION     E *. 4 . 5 . 1 . 3 . 1 .XXX. 3 . 7 . 6 .XXX.*        * LAND TENURE    T *. 4 . 4 . 4 . 4 . 3 . 2 . 4 . 3 . 5 . 3 .*
     *---------------------*------------------------------------------*         *-----------------*------------------------------------------*
     * CHINH TRI            *.   .   .   .   .   .   .   . XXX.XXX.XXX.*        * NONG NGHIEP      *.   .   .   .   .   .   .   .   .   .   .*
     * POLITICAL          F *. 3 . 3 . 3 . 1 . 3 . 3 . 3 .XXX.XXX.XXX.*        * AGRICULTURE    V *. 6 . 6 . 5 . 4 . 4 . 4 . 4 . 6 . 3 . 4 .*
     *---------------------*------------------------------------------*         *-----------------*------------------------------------------*
     * THONG TIN / TLC      *.   .   .   . XXX.XXX.XXX.XXX.XXX.XXX.XXX.*        * BOI CANH DIA LY  *.   .   .   . XXX.XXX.XXX.XXX.XXX.XXX.XXX.*
     * INFO/PSYOPS        G *. 3 . 4 . 4 .XXX.XXX.XXX.XXX.XXX.XXX.XXX.*        * BACKGROUND     Z *. 5 . 4 . 2 .XXX.XXX.XXX.XXX.XXX.XXX.XXX.*
     *---------------------*------------------------------------------*         *-----------------*------------------------------------------*
     * HOAT DONG KINH TE    *.   .   .   .   .   .   .   . XXX.XXX.*          *                  *.XXX.XXX.XXX.XXX.XXX.XXX.XXX.XXX.XXX.XXX.*
     * ECON ACTIVITY      L *. 2 . 2 . 2 . 5 . 4 . 6 . 5 . 5 .XXX.XXX.*        *                  *.XXX.XXX.XXX.XXX.XXX.XXX.XXX.XXX.XXX.XXX.*
     *-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*                              *-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*
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21

Figure 2-5
HES UPDATE FORM - SECTION C (Quarterly Report, Village Data)

```
PROV/TINH - 101 - QUANG TRI                                    (RCS MACCORDS 116.03)  TRANG/PAGE   5
DIST/QUAN - 01 - HAI LANG              HES UPDATING FORM / MAU NHAT TU / BAO CAO
   VILL/XA      - HAI DUONG       SECTION C - QUARTERLY UPDATE / PHAN C - CAP NHAT TAM CA NGUYET
          0103  - HAM/AP - THUAN DAU
```

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        *-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*             *-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*
        *. 1 . 2 . 3 . 4 . 5 . 6 . 7 . 8 . 9 . 10.*  *. 1 . 2 . 3 . 4 . 5 . 6 . 7 . 8 . 9 . 10.*
     *----------------*--------------------------*   *----------------*------------------------*
* DAI CUONG      *.   .   .XXX.XXX.XXX.XXX.XXX.XXX.XXX.XXX.* * HOAT DONG KINH TE *.   .   .   .XXX.XXX.XXX.XXX.XXX.XXX.XXX.*
* GENERAL        A *. 2 . 5 .XXX.XXX.XXX.XXX.XXX.XXX.XXX.XXX.* * ECONOMIC ACTIVITY L *. 3 . 1 . 3 .XXX.XXX.XXX.XXX.XXX.XXX.XXX.*
     *----------------*--------------------------*   *----------------*------------------------*
* HIEN DIEN DICH *.   .   .XXX.XXX.XXX.XXX.XXX.XXX.XXX.* * DU AN PHAT TRIEN *.   .   .   .XXX.XXX.XXX.XXX.XXX.XXX.XXX.*
* ENEMY PRESENCE B *. 4 . 2 . 4 .XXX.XXX.XXX.XXX.XXX.XXX.XXX.* * DEVELOPMENT PROJ N *. 4 . 4 . 5 .XXX.XXX.XXX.XXX.XXX.XXX.XXX.*
     *----------------*--------------------------*   *----------------*------------------------*
* AN NINH BAN    *.   .   .   .   .   .   .   .   .   .   .* * Y-TE          *.   .   .XXX.XXX.XXX.XXX.XXX.XXX.XXX.XXX.*
* FRIENDLY SECURITY C *. 7 . 2 . 3 . 4 . 4 . 4 . 5 . 5 . 6 . 4 .* * PUBLIC HEALTH   P *. 3 . 4 .XXX.XXX.XXX.XXX.XXX.XXX.XXX.XXX.*
     *----------------*--------------------------*   *----------------*------------------------*
* THI HANH PHAP LUAT *.   .   .   .   .XXX.XXX.XXX.XXX.* * GIAO-DUC      *.   .   .   .XXX.XXX.XXX.XXX.XXX.*
* LAW ENFORCEMENT D *. 6 . 2 . 2 . 5 . 5 . 5 .XXX.XXX.XXX.XXX.* * EDUCATION     P *. 3 . 3 . 1 . 1 . 1 .XXX.XXX.XXX.XXX.*
     *----------------*--------------------------*   *----------------*------------------------*
* HANH CHANH     *.   .   .XXX.   .XXX.XXX.XXX.XXX.XXX.XXX.* * XA-HOI        *.   .   .   .   .XXX.XXX.XXX.XXX.XXX.*
* ADMINISTRATION E *. 2 . 3 .XXX. 4 .XXX.XXX.XXX.XXX.XXX.XXX.* * SOCIAL WELFARE  S *. 4 . 3 . 2 . 2 . 3 .XXX.XXX.XXX.XXX.XXX.*
     *----------------*--------------------------*   *----------------*------------------------*
* CHINH TRI      *.   .   .   .   .   .XXX.XXX.XXX.XXX.* * BOI CANH DIA LY *.   .   .   .   .XXX.XXX.XXX.XXX.*
* POLITICAL      E *. 4 . 4 . 4 . 2 . 2 . 4 .XXX.XXX.XXX.XXX.* * BACKGROUND    7 *. 1 . 4 . 7 . 6 . 7 . 1 .XXX.XXX.XXX.XXX.*
     *----------------*--------------------------*   *----------------*------------------------*
* THONG TIN / TLC *.   .   .   .   .XXX.XXX.XXX.XXX.XXX.XXX.* *               *.XXX.XXX.XXX.XXX.XXX.XXX.XXX.XXX.XXX.XXX.*
* INFO/PSYOPS    G *. 3 . 3 . 3 . 4 . 4 .XXX.XXX.XXX.XXX.XXX.* *               *.XXX.XXX.XXX.XXX.XXX.XXX.XXX.XXX.XXX.XXX.*
     *-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*   *-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*
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Figure 2-6
HES UPDATE FORM - SECTION C (Quarterly Report, Hamlet Data)

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┌─────────────────────────────────────────────────────┐
│                   SUMMARY RECORD                     │
│                                                      │
│         Total Hamlet Monthly Questions               │
│         Total Hamlet Quarterly Questions             │
│         Total Village Monthly Questions              │
│         Total Village Quarterly Questions            │
│         Total Models                                 │
├─────────────────────────────────────────────────────┤
│                                                      │
│         Question Table Hamlet Monthly                │
├─────────────────────────────────────────────────────┤
│         Question Table Hamlet Quarterly              │
├─────────────────────────────────────────────────────┤
│         Question Table Village Monthly               │
├─────────────────────────────────────────────────────┤
│         Question Table Village Quarterly             │
├─────────────────────────────────────────────────────┤
│         Model Description Record                     │
├─────────────────────────────────────────────────────┤
│         Question Text Record                         │
├─────────────────────────────────────────────────────┤
│         Data Records - RVN ID                        │
├─────────────────────────────────────────────────────┤
│         Data Records - Region ID                     │
├─────────────────────────────────────────────────────┤
│         Data Records - Province ID                   │
├─────────────────────────────────────────────────────┤
│         Data Records - District ID                   │
├─────────────────────────────────────────────────────┤
│         Data Records - Village ID                    │
├─────────────────────────────────────────────────────┤
│         Data Records - Hamlet ID                     │
├─────────────────────────────────────────────────────┤
│         Data Records - Hamlet ID                     │
│                                                      │
│                                                      │
└─────────────────────────────────────────────────────┘
```

Figure 2-7

HES BASIC MASTER FILE DATA STRUCTURE

23

2.7.2   Analysis Reports. System reports designed primarily for use by MACCORDS-RAD/A analysts are produced by the Analysis Subsystem of HES. These include the Analysis Information, Detailed Summary, Model Change Roster, Question Response, Model Trend, Detail Trend, Detail Distribution, and Administrative Roster reports, discussed in turn below. Also produced are Conditional Probability Estimate (CPE) Listings, used by the analysts for scoring and statistical purposes. (Appendix C contains further discussion of the use of conditional probabilities in scoring HES data.) The HES Analysis reports are based on specific data retrievals and are intended primarily for analysis work. These reports contain the most detailed HES data available and require a good knowledge of HES to be utilized properly. While these reports are available on request, regular distribution is limited to those users doing detailed HES analysis. Most of these reports can be tailored to meet the requirements of the individual user.

(a)   The Analysis Information Report was designed to provide analysts with hamlet-level detailed information. The report (see Figure 2-8) is composed of a listing of all hamlets and villages and includes detailed descriptive data on each. Data elements included are hamlet/village name, UTM coordinates, population, model ratings, Administrative ID number, USID number, flag data, and question responses.

(b)   The Detail Summary Report was designed to provide analysts with complete summary data for any geopolitical area. The report (see Figure 2-9) provides summary data on the number and percent of hamlets, villages, and population in each of the various HES rating categories for all HES models at any geopolitical level. Four months of data are provided for trend analysis. The report can be produced for the whole country, or for selected districts or provinces.

(c)   The Model Change Roster was designed to show the reasons for model rating changes at the hamlet and village level. The roster (see Figure 2-10) presents a listing of those hamlets that have experienced a rating change in the HES model selected. It displays all current model ratings and question responses, along with the previous month's model ratings and question responses for all data elements that have changed.

(d)   The Question Response Report was designed to present a summary of question responses at each major geopolitical level. The report (see Figure 2-11) displays the number and percent of hamlets, villages, and population in each response category for the HES questions. The report can be produced for hamlet questions only, village questions only, or all questions. Summaries are available at either the district or province level.

(e)   The Model Trend Report was designed to provide 13 months of model trend data at any geopolitical level above the village. As illustrated in Figure 2-12, the report provides 13 months of model trend data in terms of percent of population in any grouping of rating categories, for all HES models. Data for each geopolitical level above the village is displayed on a single page for comparison between model trends within a given area.

(f)   The Detail Trend Report was designed to provide trend data for specific question responses or model ratings. The report (see Figure 2-13) summarizes single question responses or model ratings over a 13-month period. The question text or model selected is presented along with the possible responses or ratings. Summaries are presented as the number or percent of hamlets/villages or population, and geopolitical rankings are provided for the current month.

(g)   The Detail Distribution Report was designed to present a concise display of single question responses or model ratings. The report (see Figure 2-14) provides the distribution of a single question's responses or a single model's ratings. Data is displayed as the number or percent of hamlets/villages or population. The question text or model being summarized is presented along with the available question responses or model rating categories. Province rankings are available on requested groupings of question responses or model ratings.

24

(h)   The Administrative Roster was designed to present a listing of hamlets and villages reflecting their administrative structure rather than the geopolitical structure. The roster (see Figure 2-15) lists hamlets and villages in Administrative ID number sequence. Each geopolitical unit is listed under the higher-level unit by which it is administered. Selected HES model ratings and question responses are presented along with pertinent descriptive data for each unit and certain administrative information. Summaries are presented for district, province, military region and RVN levels. Each summary contains the number of hamlets and villages in various administrative categories.

2.7.3   Management Reports. In order to provide maximum management utility to the wide range of users of HES reports (various management and analysis levels of nearly all commands and agencies involved in the pacification efforts in RVN, as indicated in paragraph 2.9), HES produces reports containing various levels of data detail and summarization. The utility of the system is further increased by the variety of HES reports produced, each of which presents a particular aspect of data. These include the Summary Report, Information Report, Gazetteer, Generalized Condition Analysis (GCA) reports, and map plots. Major report options are listed in the report descriptions below.

(a)   The Summary Report was designed to present a broad overview of the national status with respect to any five of the HES models. The report is composed of three pages (see Figure 2-16). The first is a cover page briefly describing HES and the procedures for requesting additional information. The second page displays key data elements for each of the selected HES models at the national, MR, and province levels in order to show the relationships between the models. For each model selected, the third page displays more detailed data at the national, MR, and province levels including the rating distribution; percent in the categories A + B, C, and D + E + N + V; and the changes in percent from the previous month and from a selected base month.

(b)   The Information Report was designed to provide detailed descriptive data for each hamlet and village in RVN. The report is composed of four pages (see Figure 2-17): the first two are cover pages explaining the abbreviations and codes used within the report. The standard report page consists of a listing of all hamlets and villages in USID number sequence, and includes associated descriptive data and computed model ratings for each hamlet and village. The final page is a summary page, available upon request. It contains the number and percent of hamlets in each rating category for each model, and the amount and percent of population in each rating category for each hamlet at the district, province, MR, and RVN levels.

(c)   Gazetteer. The HES Gazetteer was designed to provide an unclassified directory of hamlets and villages in RVN. The Gazetteer provides basic descriptive data for all hamlets and villages in the country that are included in HES. Data elements included are hamlet or village name, UTM coordinates, USID number, population by type, and the Administrative ID number. The report (see Figure 2-18) is available in various sequences upon request. Village/hamlet records, hamlet records only, or village records only can be sequenced in any of five ways: USID, Administrative ID, hamlet name (alphabetical within province and region), village name (alphabetical within province and region), or by alpha sequence (province, district, village, and hamlet). Model ratings and question response data is not included in the report.

(d)   Generalized Condition Analysis (GCA) reports. The HES Output Subsystem contains computer programs that create what is referred to as a GCA Table, which is a compilation of lists of predefined conditions (logical combinations of question responses and/or model ratings). Some of these conditions are stored permanently, and other conditions, defined by users, are stored temporarily. The use of the GCA involves the following: a user selects the conditions he desires from the predefined lists, or defines hiw own logical condition. These conditions are read into a computer program along with the HES Basic Master File and a mathematical

25

operation is performed to determine those hamlets or villages meeting the conditions. Such records are flagged accordingly, and a special tape containing only those hamlets or villages meeting the requested conditions is produced. This tape can then be used as input to any of the HES reports, producing a GCA report in one of the standard formats, but containing only those hamlets or villages meeting the selected conditions. Report types available for GCA reports include the HES Summary Report, Information Report, and Gazetteer, all of which have been previously discussed. The GCA tape may also be used as input to programs producing HES plots. Any of these standard reports or plots using a GCA tape as input will have a subtitle below the report title identifying the conditions selected. Each condition is a comparison of up to nine HES data elements. A sample condition would be as follows:

"Hamlet rated A or B Security has inadequate law enforcement"

with the components:

Hamlet quarterly question D2 ("During <u>daylight</u> hours, do GVN authorities enforce the laws in this hamlet?") answered 0 ("No")

or

Hamlet quarterly question D3 ("During hours of <u>darkness,</u> do GVN authorities enforce the laws in this hamlet?") answered 0 ("No")

and

Hamlet Security = A or B

Two GCA reports, designed primarily for field use, are the Conditions Requiring Attention (CRA) Report and the Data Discrepancy Report (DDR). The CRA Report was designed to alert users to specific problem areas. It selects and prints out those hamlets and villages that have one or more problem areas. The report considers only a preselected set of conditions or problem areas stated in terms of combinations of question responses, model ratings, and/or other HES data elements. The report (see Figure 2-19) consists of two pages. A standard data page lists those hamlets and villages that meet one or more of the selected conditions, followed by a list of the problem areas detected. A summary page, provided at the district and province level, displays the amount and percent of hamlets, villages, and population meeting each condition. The DDR was designed to provide the DSA with a list of apparently inconsistent question responses in an attempt to maintain an accurate HES file, and to aid the DSA in noting responses that require obvious updating. The DDR (see Figure 2-20) compares selected question responses and provides a district-level listing of hamlets and/or villages with apparently inconsistent responses, along with the question comparison test(s) that indicated the inconsistency.

(e) Map Plots. One of the significant output capabilities of HES consists of a series of map plots, designed to provide graphic portrayals of HES data in relation to physical location. A series of map plots for the various geopolitical areas in RVN are available on request. These map plots can be produced for both question responses and model ratings to give either absolute figures or change figures from any previous month. Pacification plots, pacification change plots, security plots, security change plots, political plots, and socio-economic plots are all produced. The HES Output Subsystem contains programs which utilize the general printer plot routine composed of PDBSS programs; the basic CALCOMP package for 1:1,000,000 hamlet maps and population density maps; and the GEOPLOT module for the Data Presentation System (DPS) for special plots at scales such as 1:500,000, 1:100,000, and 1:50,000. In addition to these plotting densities, plots are also available at a

scale of 1:250,000. Options are specified to select desired data and produce a tape that is then used in production of the special maps. Plot options include As Of Date, change From Date (for change plots), plot content (HES models and questions desired), type of score (hamlet model, village model, village only model), From/Through USID, and type of plot (1:250,000 province plot, 1:500,000 region, 1:1,000,000 RVN).

The HES Hamlet/Village Plot is designed as a translucent overlay for RVN, region, or province maps, showing the location of all rated hamlets/villages on actual plots, and all hamlets/villages showing changes during the requested time span on change plots. The actual plot is produced by plotting the UTM locations of all hamlets in a given province, region, or RVN. The hamlet/village rating category for each hamlet/village is printed at the map UTM location for each hamlet/village within the requested geopolitical level. The change plot is produced by plotting the UTM locations of all hamlets/villages in a given province, region, or RVN that have experienced a change during the time period in the model or question being plotted. Special codes are plotted to show progression or regression and are explained in the legend of each plot. Both the actual and the change plot are identical in format and technique, being different only in content. Plots may be requested for any of the HES models or any one of the HES question responses. Figures 2-21 and 2-22 are samples of HES map plots.

2.8   Sample Outputs.

Figures 2-8 through 2-22 (which appear following paragraph 2.9, Utilization of System Outputs) illustrate HES analysis and management reports and plots described in paragraphs 2.7.2 and 2.7.3. None of the figures contain classified information.

2.9   Utilization of System Outputs.

HES has a wide range of users with varying degrees of interest in pacification. These users are essentially of two types: (1) those individuals who are responsible for the management of pacification programs, such as US and Vietnamese personnel in Saigon who control the direction of programs and resources applied, and district and province advisors who ensure that details of the programs are carried out, and (2) the staff analysts throughout MACV and in Washington who conduct in-depth studies examining HES data for causal relationships, trends, and correlation of data with information reported in other MACCORDS systems. Management requires summary data of the HES model ratings and question responses at various geopolitical levels, and staff analysts require both summary information and individual hamlet and village ratings and question responses. HES data is perhaps most extensively used in Headquarters MACV, especially throughout MACCORDS. Most, if not all, management and analysis activities concerned with the pacification effort in RVN make use of some aspect of the HES data. HES data is used to support a variety of management and analysis activity, including the formulation of goals; measurement of progress and identification of trends; identification of problem areas; allocation or reallocation of resources and measurement of effectiveness; and correlation with other data.

2.9.1   Report Utility. The HES Update Form, described in paragraph 2.7.1, is a data collection form and not generally used as a report. However, the DSAs and PSAs may make use of their carbon copies as a reference for updating information and for managing pacification resource allocation details at the district and province levels. The analysis reports, described in paragraph 2.7.2, are primarily utilized by the analysts but are distributed to other users thoroughly familiar with HES who are engaged in detailed HES analysis. The ways in which these reports are used are described in (a) through (h) below. The management reports, described in paragraph 2.7.3, are standard distribution reports intended for the general HES user. These reports are widely distributed, and serve the users as described in (i) through (m) below.

(a) Analysis Information Report. This report is used by MACV analysts in detailed studies of individual hamlets or villages. Comparative analysis of individual question responses and/or other HES data elements at the hamlet and village levels are often undertaken to determine individual hamlet or village problems.

(b) Detailed Summary Report. This report is most useful to analysts investigating geopolitical problem areas rather than topical problem areas. Detailed analysis of particular models within a geopolitical area is possible with this report. Rating distributions of hamlets, villages, and population over a period of time can be compared, and the extent of changes in the three summaries can be determined. The report is useful for ascertaining whether population rating changes are attributed to population movements or actual hamlet rating changes.

(c) Model Change Roster. This report is used to explain the reasons for progressions and regressions in HES. The report is used by analysts, in conjunction with summary reports, to analyze changes in the HES ratings and pinpoint the reasons for the changes. For example, if a summary report reflects a decrease in the percent of population living in hamlets rated A or B in the Security model for a given district, the Model Change Roster may be used to determine the reasons for the decrease. Those hamlets in which the Security model rating changed would be listed in the Model Change Roster, along with the question response changes causing the model rating changes.

(d) Question Response Report. This report is used most often in responding to specific information requests at the higher geopolitical levels. The report can be used to monitor the effects of specific policies by focusing on the responses to specific questions over a period of time. For example, a program to increase the number of health clinics may be monitored by noting the changes in responses to the HES question that asks "Are GVN sanctioned medical services accessible to hamlet residents?" The report is also used as a survey tool for one-time data requirements, and as a planning aid. In attempting to determine the need for a program to increase the number of health clinics, for example, the HES question cited previously could be used to determine the number of hamlets in which GVN sanctioned health services were not accessible to the local populace.

(e) Model Trend Report. MACV analysts use this report in following model rating trends at the various geopolitical levels. The Model Trend Report is the primary source of long-range trend data.

(f) Detail Trend Report. This report is used primarily for fulfilling specific information requests requiring trend data for a small number of models or questions. The format facilitates comparisons among geopolitical areas, making the report especially useful for comparison trend analysis.

(g) Detail Distribution Report. This report is used primarily for fulfilling information requests requiring only a small number of distribution displays. The report is especially useful in analyzing detailed comparison distributions among geopolitical areas.

(h) Administrative Roster. HES carries hamlets and villages in the village and/or district in which they are physically located rather than in the village or district which governs them. The Administrative Roster is used by analysts and special users who are concerned with hamlets or villages as administrative entities rather than as geographic entities. The report lists these geopolitical units under the higher-level unit by which they are administered. If the user is concerned with the geographic location of hamlets or villages, he should refer to the Information Report, described in (j) below.

(i) Summary Report. This report is intended to satisfy the needs of the general HES user by presenting a general summary of HES data each month rather than detailed information which most users do not require. The current status of any given province as compared with the national or MR average can be ascertained from the Summary Report. Also, the progress in individual provinces can be compared with the national or MR average. One of the prime uses of this report by management is in detecting those provinces which deviate significantly from the norm and require further attention. The inclusion of change data from a base month allows the user to monitor the month-by-month fluctuations shown in HES, while noting the overall progression from a given base month (such as the start of a yearly development plan). The single summary page displaying all models selected allows the user to note strong and weak areas in a given province, as compared with other provinces, and to note those areas that warrant closer attention.

(j) Information Report. The Information Report provides descriptive data for hamlets and villages, and is used as an analytic tool for detailed research into the causes of trends noted in other HES management reports. Field personnel use this report as a source of information for individual hamlet ratings and for noting specific areas requiring attention.

(k) Gazetteer. The HES Gazetteer is widely used as an unclassified source of information concerning the geographic and administrative structure of RVN, and as a source of information on individual hamlet locations and population. HES is the primary source of geographic data on RVN and, as such, provides much of the basic data for other MACCORDS automated systems and other monitoring systems. The Gazetteer provides the primary identification numbers for all geopolitical levels as well as geographic coordinates.

(l) Generalized Conditions Analysis (GCA) Reports. The HES GCA Table's sets of conditions which the user may select for reports allow the user to identify specific problem areas in hamlets and villages and inconsistencies in question responses. The Conditions Requiring Attention (CRA) Report is useful to field personnel in pinpointing individual problem areas within their areas of responsibility. Action can then be initiated to correct these problems. The conditions are monitored by MACV analysts and can be altered as required. Special reports focusing on conditions of interest to specific agencies, dealing only with conditions affecting them, are also available. These reports may be used by management to determine either topical or geographic problem areas, and may be distributed to lower-level personnel for corrective action. The Data Discrepancy Report (DDR) alerts field personnel to question response inconsistencies that should be updated. The DSA uses the report to note responses requiring obvious updating; personnel in MACCORDS-RAD/A use the report as a source of question upgrading analysis by noting those questions that are continual problem areas.

(m) Map Plots. The HES map plots are used by both upper-level management and analysts to determine relationships between rating categories and geographic areas and features, and to identify those geographic areas in which more detailed analysis of HES data is warranted. Analysts use the plots to detect geographic patterns within the data. For example, increases in the Enemy Military Presence model in a series of hamlets along a river valley may well indicate new enemy supply or infiltration routes. Thus, the plots are used to relate the HES data to the geographic areas and terrain features from which the data was reported. The map plots may be used by management as a tool in planning operations or programs, allocating resources, and defining geographic problem areas.

29

2.9.2   Report Distribution. The HES Update Forms are distributed by MACCORDS-RAD/ADP
to the DSAs via Region Headquarters and Province Senior Advisors. HES output reports are dis-
tributed throughout the RVN, to GVN Ministries and various US and Free World Military Assist-
ance Forces (FWMAF) commands; to the Commander in Chief of the US Pacific Forces (CINCPAC),
the US Defense Intelligence Agency, the US Department of State, the White House, Pentagon, and
other US Government agencies in Washington; embassies of the various allied governments; and
to the US Delegation to Paris.

UNCLASSIFIED

USID * FLAGS/NAME *-*-*-*-*-*-* POP *-* UTM *-*-* HAMLET (VIL-ONLY) RATINGS *-*-*-*-*-* VILLAGE RATINGS *-*-*-*-*-*-*-*-*-*-* ADM USID *-*

0100 - BINH LUONG DONG   4656   BB CBB BCBBCC ABBBBANABABCBBBNBAA BB BBA ABABBB AAABABBAAABBBBABBAA   430010101
    09999999   B03C00Z9999999999   B 00000C0332339D23434599E45131*399F3201333G311L22299999N31101P3321R324T23012 09999V99999999399Z541

0101 - BINH HOA   717   XS790378   BB BBA ABABBA AAABAABAAABBBAAABAA   430010100
    099919999   A133000000C0C00000 0000000Z999999999   A14B000C4220035999D222535E23*4*F031122G33229L312N239P34R33000S00120Z006611

0102 - BINH PHU   380   XS798382   BB BBA ABABBB AAABABBAAAABBCBBBBA   430010100
    099909999   A128000000C0C00000 0000000Z999999999   A24B000C12200 35999D122445E23*2*F021222G32119L011N229P20R23100S03120Z006610

0103 - BINH QUOI   388   XS805384   BB CBA ABABBC AAABABBAAAABBCCBBBA   430010100
    099909999   A128000000C0C00000 0000000Z999999999   A24B000C1220035999D122244E23*2*F120222G32019L011N229P10R13100S03120Z006610

0104 - BINH AN   635   XS810388   BB BBA ABABBB AAABABBAAABBBCABBAA   430010100
    099909999   A128000000C0C00000 0000000Z999999999   A24B000C12200 35999D122255E23*3*F030122G32019L012N229P10R33000S03120Z006610

0105 - BINH THANH   344   XS818390   BB CBA ABABCB AAABABBAAACCBCBBBAA   430010100
    099909999   A118000000C0C00000 0000000Z999999999   A24B000C1320035999D122355E23*1*F030122G32009L C13N009P10R23000S02120Z006610

0107 - BINH NINH   995   XS784383   BB BBA ABABBA AAABABBAAABBBBAABAA   430010100
    019909919   A553000000C0C00000 0000000Z999999999   A24B000C12200 35999D122433E23*3*F031122G32119L112N119P21R33000S00120Z006610

0108 - BINH KHUONG   555   XS780377   BB BBA ABABBB AAABABBAAABBBABBAA   430010100
    099909999   A128000000C0C00000 0000000Z999999999   A24B000C12200 35999D122455E23*2*F030122G32119L012N229P21R33000S03120Z006610

0109 - BINH LONG   468   XS817373   BB BBA ABABBB AAABABBAAABCBBABBAA   430010100
    099909990   A013000000C0C00000 0000000Z999999999   A24B000C1220035999D122255E23*2*F130122G32009L012N129P11R33000S03120Z006610

0110 - BINH LOI   174   XS823389   BB CBA ABACCB AAABABBAAACCCCBBBBA   430010100
    099909999   A228000000C0C00000 0000000Z999999999   A24B010C12200 35999D122255E23*1*F130122G32009L012N009P10R23000S02120Z006610

USID * FLAGS/NAME *-*-*-*-*-*-* POP *-* UTM *-*-* HAMLET (VIL-ONLY) RATINGS *-*-*-*-* VILLAGE RATINGS *-*-*-*-*-*-*-*-*-*-* ADM USID *-*

0200 - BINH LONG   3219   BB CBB BCBBCC BBBBBANBBABDBBCNBAB BB CBB BBACBB BAABABBAAABCCCBBBBB   430010204
    09999999   B03C00Z9999999999   B11000C0332339D23434499E45131*333F3201333G301L22299999N21111P3320R222T3101309999V99999999999Z241

0201 - BINH HOA 2   252   XS807407   BB CBB BBABBC BAABABBAAAABBCCBABB   430010200
    099909999   A318000000C0C00000 0000000Z999999999   A24B000C1220035999D122255E23*2*F130222G32029L011N229P21R13100S02120Z006610

0202 - BINH THANH 2   326   XS802417   CC CCB BBBCBB BAABABBABABCCCBBBBB   430010200
    099909990   A21B000000C0C00000 0000000Z999999999   A24B100C12210 35999D122255E23*2*F130223G32019L011N009P11R23000S02120Z006610

UNCLASSIFIED

Figure 2-8
ANALYSIS INFORMATION REPORT

IOICI CLANG TRI — **FAT LANG** — **QUAN-SU**

MILITARY POPULATION	A		B		AB	C		ABC	D		E		V		N		TOTAL
30-04-71	0	0.0	116458	38.3	38.3	141774	46.7	85.0	45426	15.0	17	0.0	0	0.0	3	0.0	303678
31-05-71	0	0.0	130307	42.5	42.5	162641	53.1	95.6	13582	4.4	20	0.0	0	0.0	14	0.0	306564
30-06-71	0	0.0	130307	42.8	42.8	160299	52.7	95.5	13582	4.5	20	0.0	0	0.0	14	0.0	304222
31-07-71	0	0.0	129834	42.7	42.7	160299	52.7	95.4	13582	4.5	20	0.0	0	0.0	487	0.2	304222
HAMLETS																	
30-04-71	0	0.0	111	24.5	24.5	246	54.7	79.2	94	20.8	0	0.0	0	0.0	0	0.0	453
31-05-71	0	0.0	131	28.7	28.7	267	58.4	87.1	59	12.9	0	0.0	0	0.0	0	0.0	457
30-06-71			131	28.9	28.9	263	58.1	87.0	59	13.0	0	0.0	0	0.0	0	0.0	453
31-07-71			131	28.9	28.9	263	57.9	86.8	59	13.0	0	0.0	0	0.0	1	0.2	454
VILLAGES																	
30-04-71	0	0.0	17	19.3	19.3	36	40.9	69.2	18	20.5	17	19.3	0	0.0	0	0.0	88
31-05-01		0.0	18	24.7	24.7	33	45.2	69.9	2	2.7	20	27.4	0	0.0	0	0.0	73
30-06-71	0	0.0	18	24.3	24.3	34	45.9	70.3	2	2.7	20	27.4	0	0.0	0	0.0	73
31-07-71	0	0.0	18	20.5	20.5	34	38.6	59.1	2	2.3	20	22.7	0	0.0	14	15.9	88

CHINH-TRI

POLITICAL DAN SO	A		B		AB	C		ABC	D		E		V		N		TOTAL
30-04-71	96541	31.8	128718	42.4	74.2	72921	24.0	98.2	5478	1.8	17	0.0	0	0.0	3	0.0	303678
31-05-71	98897	32.3	161389	52.6	84.9	41094	13.4	98.3	5150	1.7	20	0.0	0	0.0	14	0.0	306564
30-06-71	89166	29.3	177406	58.3	87.6	37434	12.3	99.9	185	0.1	20	0.0	0	0.0	11	0.0	304222
31-07-71	98897	32.5	133839	44.0	76.5	64541	21.2	97.7	6442	2.1	30	0.0	0	0.0	473	0.2	304222
AP																	
30-04-71	83	18.3	245	54.1	72.4	119	26.3	98.7	6	1.3	0	0.0	0	0.0	0	0.0	453
31-05-71	84	18.4	293	64.1	82.5	77	16.8	99.3	3	0.7	0	0.0	0	0.0	0	0.0	457
30-06-71	78	17.2	312	68.9	86.1	62	13.7	99.8	1	0.2	0	0.0	0	0.0	0	0.0	453
31-07-71	84	18.5	251	55.3	73.8	112	24.7	98.5	6	1.3	0	0.0	0	0.0	1	0.2	454
XA																	
30-04-71	11	12.5	39	44.3	56.8	21	23.9	80.7	0	0.0	17	19.3	0	0.0	0	0.0	88
31-05-71	11	15.1	37	50.7	65.8	5	6.8	72.6	0	0.0	20	27.4	0	0.0	0	0.0	73
30-06-71	10	13.5	40	54.1	67.6	4	5.4	73.0	0	0.0	20	27.0	0	0.0	0	0.0	74
31-07-71	11	12.5	39	44.3	56.8	6	6.8	63.6	2	2.3	30	34.1	0	0.0	0	0.0	88

AN-NINH

SECURITY POPULATION	A		B		AB	C		ABC	D		E		V		N		TOTAL
30-04-71	136912	45.1	134032	44.1	89.2	24559	8.1	97.3	8161	2.7	11	0.0	0	0.0	3	0.0	303678
31-05-71	109398	35.7	176912	57.7	93.4	16255	5.3	98.7	3968	1.3	17	0.0	0	0.0	14	0.0	306564
30-06-71	117093	38.5	166772	54.8	93.3	20138	6.6	99.9	188	0.1	17	0.0	0	0.0	14	0.0	304222
31-07-71	117582	38.7	176509	58.0	96.7	6511	2.1	98.8	3116	1.0	17	0.0	0	0.0	487	0.2	304222
HAMLETS																	
30-04-71	173	30.2	237	52.3	90.5	33	7.3	97.8	10	2.2	0	0.0	0	0.0	0	0.0	453
31-05-71	125	27.4	265	58.0	85.3	65	14.2	99.6	2	0.4	0	0.0	0	0.0	0	0.0	457
30-06-71	131	28.4	255	56.3	85.2	66	14.6	99.8	1	0.2	0	0.0	0	0.0	0	0.0	453
31-07-71	131	29.5	306	67.4	96.9	12	2.6	99.6	1	0.2	0	0.0	0	0.0	1	0.2	454
VILLAGES																	
30-04-71	22	25.0	41	46.6	71.6	7	8.0	79.5	7	8.0	11	12.5	0	0.0	0	0.0	88
31-05-71	14	19.2	37	50.7	69.9	2	2.7	72.6	8	4.1	17	23.3	0	0.0	0	0.0	73
30-06-71	15	20.3	36	48.6	68.9	3	4.1	73.0	3	4.1	17	23.0	0	0.0	0	0.0	74
31-07-71	15	17.0	39	44.3	61.4	0	0.0	61.4	3	3.4	17	19.3	0	0.0	14	15.9	88

Figure 2-9
DETAILED SUMMARY REPORT

32

FEB 71   JAN 71

PROVINCE - 102   - THUA THIEN
DISTRICT - 10205 - PHU LOC

```
                             1
0100 - LOC BON              B03C00     B21010C1332129D22423399E44131*099F3331333G323L22199999N21211P3310R322T0400229999V99999999999Z542
  6270 POPULATION   SCORES  BB  CBB   BBBBBC  BAABACBBBBAAACCBBCA                                          CC  CCB  BCCBCC  BBBBBBNBCBBAABBNBCA
                           CC   C              B

                              1   1
0102 - AN NONG 2           A33B00000000C0000D0000000    A14B210C4221034999D521355E23*3*F133222G22039L012N229P21R23110S10020Z002610
  959 POPULATION   SCORES   BB  CBB   BBBBBC  BAABACBBBBAAACCBBCA
                           CC   C      C     B     C                                       YD924096

                              0
0300 - LOC AN              B23C00     B21010C3332129D22433399E44131*099F3311333G322L22199999N21211P3312R322T0400129999V99999999999Z542
 10379 POPULATION   SCORES  BB  CBB   BBBBBB  BBABBBBBBBBBBBCABCA                                          CC  CCC  CCCBCC  BDBBBANBCBBBBBBNBCA
                              A                                                                               B  B        B

                             0   0
0304 - XUAN LAI           A33B00010001C0000D0000000    A24B111C4221034999D422555E23*4*F133222G32039L212N329P32R33010S00023Z002611
  1202 POPULATION   SCORES  CC  BCB   CBCBBA  BCABAABBCBAABABABCA
                           BB   B    B B      A     B                                      YD969065

0600 - LOC THUY           B23C00     B11010C3332129D22423399E44131*099F3331333G322L22199999N21211P3320R322T0400129999V99999999999Z542
  5885 POPULATION   SCORES  CC  CCC   CCBCBB  BDABDCBACBBBBBBBBBCA                                         CC  CBC  CCBBCC  BDBBBBNBBBBBABBNBCA
                            B   BB       B  B   B

                            21  000     0     1
0601 - THUY CAM           A33B01120222C0012D0000400    A14B111C4221034999D422345E23*3*F132222G02039L012N119P20R23110S10000Z012010
  746 POPULATION   SCORES   CC  CCB   CBCBBB  BDABBBBBCBBBACCBBCA
                           BB   B     B       C     B                                      ZD143008

                            000 000   00     0
0603 - THUY AN THON       A33B01120222C0012D0000400    A24B100C4110034999D422345E13*3*F132222G02039L012N119P20R23110S10000Z012010
  180 POPULATION   SCORES   CC  CBC   CCBBBC  BDABDBBACBBBACCBBCA
                           BB   B   BB       B  B   B                                      ZC140994

                            001 001  100   0  0
0604 - AN BANG            A33B01120222C0012D0100400    A24B100C4110034999D421355E23*4*F132222G02039L213N119P34R33010S10223Z004611
  715 POPULATION   SCORES   CC  BBC   CCBBBB  BDBBDCBACBBBABBBBBA
                           BB   B    B       CA B   B                                      ZD143008

0700 - LOC TU            B23C00     B22111C2332129D22423399E44131*099F3331333G322L22199999N21211P3310R322T0400129999V99999999999Z542
  9387 POPULATION   SCORES  CC  CCC   DBCBBB  CDABBBBBCBBBBBBBBBCA                                         DD  CCD  DCCBCC  CDBBBBNCCBBBABBNBCA
                           BB   BB   C B       CB    B
```

Figure 2-10
MODEL CHANGE ROSTER

NARA Reference Copy

33

PROVINCE - 101 - QUANG TRI
DISTRICT - 10101 - HAI LANG

***** H A M L E T *****

QUESTION	-0-	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-
				COUNT										PERCENT						
HMA1	3	29	13	24	2	1	0	0	0	0	4.2	40.3	18.1	33.3	2.8	1.4	0.0	0.0	0.0	0.0
HMA2	3	29	13	24	2	1	0	0	0	0	4.2	40.3	18.1	33.3	2.8	1.4	0.0	0.0	0.0	0.0
HMB1	72	0	0	0	0	0	0	0	0	0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HMB2	71	1	0	0	0	0	0	0	0	0	98.6	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HMB3	71	0	1	0	0	0	0	0	0	0	98.6	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HMB4	61	7	4	0	0	0	0	0	0	0	84.7	9.7	5.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HMB5	72	0	0	0	0	0	0	0	0	0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HMB6	72	0	0	0	0	0	0	0	0	0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HMB7	72	0	0	0	0	0	0	0	0	0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HMB8	72	0	0	0	0	0	0	0	0	0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HMC1	72	0	0	0	0	0	0	0	0	0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HMC2	72	0	0	0	0	0	0	0	0	0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HMC3	66	6	0	0	0	0	0	0	0	0	91.7	8.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HMC4	62	0	3	0	0	0	0	0	7	0	86.1	0.0	4.2	0.0	0.0	0.0	0.0	0.0	9.7	0.0
HMD1	71	0	1	0	0	0	0	0	0	0	98.6	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HMD2	71	1	0	0	0	0	0	0	0	0	98.6	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HMD3	72	0	0	0	0	0	0	0	0	0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HMD4	71	1	0	0	0	0	0	0	0	0	98.6	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HMD5	63	0	2	6	1	0	0	0	0	0	87.5	0.0	2.8	8.3	1.4	0.0	0.0	0.0	0.0	0.0
HMD6	72	0	0	0	0	0	0	0	0	0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HMD7	72	0	0	0	0	0	0	0	0	0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HQA1	52	20	0	0	0	0	0	0	0	0	72.2	27.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HQA2	0	0	62	0	10	0	0	0	0	0	0.0	0.0	86.1	0.0	13.9	0.0	0.0	0.0	0.0	0.0
HQB1	0	60	12	0	0	0	0	0	0	0	0.0	83.3	16.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HQB2	56	16	0	0	0	0	0	0	0	0	77.8	22.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HQB3	66	6	0	0	0	0	0	0	0	0	91.7	8.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HQC1	0	3	0	0	64	5	0	0	0	0	0.0	4.2	0.0	0.0	88.9	6.9	0.0	0.0	0.0	0.0
HQC2	0	45	27	0	0	0	0	0	0	0	0.0	62.5	37.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HQC3	0	26	46	0	0	0	0	0	0	0	0.0	36.1	63.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HQC4	38	32	2	0	0	0	0	0	0	0	52.8	44.4	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HQC5	72	0	0	0	0	0	0	0	0	0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HQC6	7	22	40	3	0	0	0	0	0	0	9.7	30.6	55.6	4.2	0.0	0.0	0.0	0.0	0.0	0.0
HQC7	7	0	10	7	48	0	0	0	0	0	9.7	0.0	13.9	9.7	66.7	0.0	0.0	0.0	0.0	0.0
HQD1	0	0	71	0	1	0	0	0	0	0	0.0	0.0	98.6	0.0	1.4	0.0	0.0	0.0	0.0	0.0
HQD2	0	7	65	0	0	0	0	0	0	0	0.0	9.7	90.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HQD3	1	58	13	0	0	0	0	0	0	0	1.4	80.6	18.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HQD4	0	0	1	1	40	30	0	0	0	0	0.0	0.0	1.4	1.4	55.6	41.7	0.0	0.0	0.0	0.0
HQD5	0	0	0	2	70	0	0	0	0	0	0.0	0.0	0.0	2.8	97.2	0.0	0.0	0.0	0.0	0.0

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Figure 2-11
QUESTION RESPONSE REPORT

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1   I CTZ   PERCENT OF POPULATION A OR B OR C

MODEL NAME	DEC 69	JAN 70	FEB 70	MAR 70	APR 70	MAY 70	JUN 70	JUL 70	AUG 70	SEP 70	OCT 70	NOV 70	DEC 70
HES RATING	97.88	94.03	95.57	98.59	98.62	97.95	99.99	97.73	99.30	98.59	99.99	98.81	98.79
SECURITY	97.88	94.03	95.57	98.59	98.62	97.95	99.99	97.73	99.30	98.59	99.99	98.81	98.79
MIL	97.94	93.55	95.61	98.59	98.33	97.92	99.83	97.73	98.47	98.31	99.93	98.61	97.52
EN-MIL	97.51	93.55	94.44	96.50	96.13	95.97	98.81	96.41	98.19	98.31	99.93	97.71	94.93
EN-MIL-FRS	96.78	97.01	96.85	98.83	98.83	98.83	98.83	97.51	98.79	98.56	99.99	99.83	90.43
EN-MIL-ACT	98.69	94.22	95.32	59.51	98.69	96.93	99.62	96.76	96.03	98.78	99.93	98.61	97.13
FRN-MIL	98.98	95.56	96.01	59.68	99.12	97.15	99.83	97.51	96.72	98.63	99.58	98.46	97.71
FRN-MIL-PRS	99.86	95.86	99.47	59.99	99.99	99.99	99.99	99.99	99.99	99.64	99.64	99.48	99.98
FRN-MIL-ACT	98.69	94.22	95.32	59.51	98.69	96.93	99.62	96.76	96.03	98.78	99.93	98.61	97.13
PSDF-ACT	88.33	88.40	87.81	94.16	94.39	94.27	96.80	96.80	96.80	98.38	98.37	98.21	99.56
IMP-MIL-ACT	99.76	100.00	99.60	59.99	99.99	99.99	99.77	97.07	96.64	99.60	99.99	99.83	99.98
PCL	99.85	99.77	99.52	99.00	99.00	99.99	99.99	99.99	99.99	99.99	99.99	99.83	99.83
EN-PCL	99.95	99.86	99.60	59.00	99.00	99.99	99.99	99.99	99.99	99.99	99.99	99.83	99.98
EN-PCL-FRS	96.78	97.01	96.85	58.83	98.83	98.83	98.83	97.51	98.79	98.56	99.99	99.83	90.43
EN-PDL-ACT	99.69	99.86	98.61	58.89	98.97	99.99	99.99	99.99	99.99	99.60	99.99	99.83	99.98
FRN-PCL	99.90	99.91	99.52	59.99	99.99	99.99	99.99	99.99	99.99	99.99	99.99	99.83	99.83
ADMIN	100.00	100.00	99.60	59.99	99.99	99.99	99.99	99.99	99.99	99.60	99.60	99.44	99.91
LAW-ENFRC	99.95	99.95	99.56	59.99	99.99	99.99	99.99	99.99	99.99	99.99	99.99	99.83	99.83
PCL-MCB	99.76	99.77	99.38	59.95	99.95	99.95	99.99	99.99	99.99	99.99	99.99	99.83	99.83
CCM-DEVEL	65.00	64.86	64.86	70.53	70.47	70.36	79.95	79.95	79.95	95.38	95.35	95.19	96.04
FRN-PCL	99.90	99.91	99.52	59.99	99.99	99.99	99.99	99.99	99.99	59.99	99.99	99.83	99.83
ADMIN	100.00	100.00	99.60	59.99	99.99	99.99	99.99	99.99	99.99	99.60	99.60	99.44	99.91
LAW-ENFRC	99.95	99.95	99.56	59.99	99.99	99.99	99.99	99.99	99.99	99.99	99.99	99.83	99.83
PCL-MCB	99.76	99.77	99.38	59.95	99.95	99.95	99.99	99.99	99.99	99.99	99.99	99.83	99.83
PCL-PRCC	88.66	88.81	88.70	57.41	97.41	97.41	98.68	98.59	98.59	99.99	99.10	99.74	99.83
DEV-ASST	97.77	97.79	97.66	59.99	99.99	99.99	90.69	90.69	90.69	99.99	99.99	99.83	99.83
LAND-TENURE	81.75	81.57	81.49	85.24	85.21	85.07	83.29	83.29	83.29	76.82	76.82	76.66	71.82
PSDF-ACT	88.33	88.40	87.81	94.16	94.39	94.27	96.80	96.80	96.80	98.38	98.37	98.21	99.56
INFC-PSYOPS	86.24	86.33	86.25	89.73	89.71	89.73	96.08	96.08	96.08	93.08	93.03	92.87	96.04
RDC	10.34	10.31	10.01	22.99	23.03	23.15	37.92	47.91	49.85	62.65	63.10	49.26	64.40
SCC-PROC	81.22	81.25	80.53	87.86	87.83	87.85	85.53	85.53	85.53	96.12	96.09	95.93	96.04
PUB-HEALTH	84.86	84.87	84.53	86.75	86.73	86.75	86.14	86.14	86.14	95.67	95.64	95.48	95.61
EDUCATION	91.55	91.61	91.51	93.61	93.60	93.61	94.31	94.31	94.31	96.21	96.18	96.02	94.79
SCC-WELFARE	69.61	69.55	69.03	72.54	72.68	72.57	71.26	71.26	71.26	73.08	73.06	72.90	81.65
ECON-ACT	62.65	62.33	62.33	68.77	68.71	68.60	73.48	73.48	73.48	83.54	82.82	82.66	73.98

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Figure 2-12

MODEL TREND REPORT

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HQGO? - DO ANY HOUSEHOLDS IN THIS HAMLET CWN A TV SET   RESPONSES
```
                                                                  0 NO
                                                                * 1 YES, A FEW (LESS THAN 10 PCT)
                                                                * 2 YES, SOME (10-40 PCT)
                                                                * 3 YES, MANY (MORE THAN 40 PCT)
                                                                * 8 NOT APPLICABLE
                                                                  9 UNKNOWN/UNABLE TO JUDGE
```

															RANKING	
USID	AREA	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	CURR	MR	RVN
0	RVN	48.7	48.7	48.4	52.1	52.2	51.9	55.4	55.4	55.3	57.3	57.2	57.0	58.8		
1	MILITARY REGION 1	23.4	23.3	23.4	25.1	24.9	24.6	30.3	30.6	30.5	31.4	31.6	31.3	31.8		
101	QUANG TRI	21.7	21.7	21.7	22.8	22.8	22.8	23.7	23.8	23.8	24.0	24.0	24.0	21.8	5	42
102	THUA THIEN	28.7	28.3	28.5	30.1	29.9	28.9	34.4	34.7	34.8	37.8	37.8	37.6	38.6	2	30
103	QUANG NAM	33.7	33.6	33.6	34.2	34.4	32.9	37.8	38.3	37.4	37.9	38.0	37.8	39.4	1	29
104	QUANG TIN	19.9	20.0	19.9	22.2	21.9	21.9	23.5	23.5	23.9	24.1	25.0	25.0	25.7	4	40
105	QUANG NGAI	13.5	13.5	13.9	16.3	15.9	16.6	27.6	27.9	27.8	28.6	28.5	27.9	28.3	3	39
2	MILITARY REGION 2	39.1	39.1	39.0	41.1	40.8	40.3	41.8	41.9	41.9	42.8	42.8	42.5	43.9		
206	KONTUM	32.4	32.2	32.2	32.4	32.5	32.2	36.6	36.6	36.6	34.8	34.8	34.8	34.8	9	36
207	BINH DINH	37.6	37.7	37.6	43.6	42.6	41.8	45.5	45.6	45.7	44.4	44.4	44.4	47.0	3	26
208	PLEIKU	38.1	38.5	38.8	39.8	40.1	40.0	40.2	40.2	40.2	39.9	40.5	37.8	37.8	6	31
209	PHU BON	13.2	13.2	13.3	13.2	13.2	13.2	13.3	13.2	13.2	13.2	13.2	12.6	14.2	12	44
210	PHU YEN	31.2	31.2	31.6	33.2	33.2	33.2	35.7	35.8	35.6	36.3	36.3	36.3	37.6	7	32
211	DARLAC	33.7	33.6	33.2	34.0	33.8	33.6	35.1	34.9	34.7	35.6	35.3	35.0	35.2	8	35
212	KHANH HOA	65.1	65.1	65.1	63.6	63.7	62.5	60.1	60.1	60.1	63.7	63.6	63.6	62.8	1	13
213	NINH THUAN	27.3	27.3	27.4	27.2	27.4	27.4	31.0	31.0	31.0	37.4	37.4	37.2	40.6	5	28
214	TUYEN DUC	20.9	18.5	18.4	20.4	20.4	20.4	19.5	20.0	19.8	15.8	15.7	15.9	20.9	11	43
215	QUANG DUC	21.3	21.4	19.4	22.0	22.0	22.3	23.4	23.5	23.6	22.4	23.3	21.6	24.5	10	41
216	LAM DONG	60.9	61.2	61.1	55.8	55.5	55.4	55.1	55.1	55.0	53.1	53.1	52.9	52.9	2	23
217	BINH THUAN	39.4	38.8	38.8	40.4	40.4	40.4	38.6	40.2	40.2	45.8	45.3	45.3	46.6	4	27

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Figure 2-13
DETAILED TREND REPORT

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QUESTION   WHAT IS THE PRIMARY ETHNIC STRAIN PRESENT IN
THIS HAMLET

RESPONSES   0 NO ETHNIC STRAIN IS PRIMARY
          1 CAMBODIAN
          2 CHAM
          3 CHINESE
          4 LAO
          5 MONTAGNARD
          6 VIETNAMESE

QUESTION RESPONSE DISTRIBUTION BY HAMLETS AS OF MAY 1970

USID		---0--	---1--	---2--	---3--	---4--	---5--	---6--	---7--	---8--	---9--	MR	RVN
0	RVN	120	531	58	168	7	1394	9165	0	2	1464		
1	MILITARY REGION 1	23	1	2	1	1	87	1935	0	0	622		
101	QUANG TRI	0	0	0	0	0	41	412	0	0	20	5	14
10101	HAI LANG	0	0	0	0	0	0	72	0	0	0	5	18
10102	MAI LINH	0	0	0	0	0	0	37	0	0	0	5	18
10103	TRIEU PHONG	0	0	0	0	0	0	121	0	0	0	5	18
10104	CAM LO	0	0	0	0	0	8	58	0	0	0	5	18
10105	GIO LINH	0	0	0	0	0	0	56	0	0	0	5	18
10106	TRUNG LUONG	0	0	0	0	0	0	0	0	0	20	5	18
10108	HUONG-HOA	0	0	0	0	0	33	23	0	0	0	5	18
10109	DONG HA	0	0	0	0	0	0	45	0	0	0	5	18
102	THUA THIEN	16	0	2	0	0	1	421	0	0	68	1	2
10201	NAM HOA	0	0	0	0	0	1	20	0	0	9	5	18
10202	HUONG TRA	0	0	0	0	0	0	61	0	0	5	5	18
10203	HUONG DIEN	0	0	0	0	0	0	21	0	0	1	5	18
10204	VINH LOC	0	0	2	0	0	0	16	0	0	0	5	18
10205	PHU LOC	16	0	0	0	0	0	54	0	0	5	1	2
10206	QUANG DIEN	0	0	0	0	0	0	61	0	0	10	5	18
10208	PHU VANG	0	0	0	0	0	0	53	0	0	0	5	18
10209	PHU THU	0	0	0	0	0	0	47	0	0	13	5	18
10210	HUONG THUY	0	0	0	0	0	0	58	0	0	6	5	18
10211	PHONG DIEN	0	0	0	0	0	0	30	0	0	19	5	18
103	QUANG NAM	1	0	0	1	1	0	305	0	0	201	4	12
10301	HOA VANG	0	0	0	0	1	0	83	0	0	10	5	18
10302	HIEU DUC	0	0	0	0	0	0	22	0	0	11	5	18
10303	DIEN BAN	0	0	0	0	0	0	36	0	0	74	5	18
10304	DAI LOC	0	0	0	0	0	0	30	0	0	46	5	18
10305	THUONG DUC	1	0	0	0	0	0	12	0	0	13	4	8
10306	DUC DUC	0	0	0	0	0	0	23	0	0	32	5	18
10307	QUE SON	0	0	0	0	0	0	49	0	0	0	5	18
10308	DUY XUYEN	0	0	0	0	0	0	22	0	0	4	5	18
10309	HIEU NHON	0	0	0	1	0	0	28	0	0	11	5	18
104	QUANG TIN	0	0	0	0	0	0	321	0	0	97	5	14
10401	THANG BINH	0	0	0	0	0	0	70	0	0	34	5	18
10403	TAM KY	0	0	0	0	0	0	112	0	0	41	5	18

RANKING (0 1)

37

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Figure 2-14
DETAIL DISTRIBUTION REPORT

REPORT NUMBER R7237.00.0
RUN DATE   10 MAR 71

DANH-SACH HTLG AP HANH-CHANH
(HES ADMINISTRATIVE ROSTER)
CUA THANG 1 NAM 1971

QUAN KHU I
TINH QUANG TRI
QUAN GIO LINH

TEN XA / TEN AP (1)	DAN SO (2)	TOA DO (3)	AM SO HTLGA (4)	TINH TRANG (5)	BAU CU (6)	CHI DINH (7)	XEP HANG CUA HTLGA (8)	HANG AN NINH (9)	MUC DO PHAT-TRIEN CONG-DONG (10)	CHINH TRI (11)	QUAN SU (12)	XA/AP (13) 1 2 3 4 5 6 7
GIO AN (B)	1,685	YD219684	101050100	DI DAN	CO	-----	C	C	D	B	C	4 5 1 3 1 * 1
AN NHA (B)	113	YD218682	101050207	DI DAN	CO	-----	B	B	C	B	B	2 3 * 3 * - -
XUAN HOA (B)	144	YD222677	101050208	DI DAN	CO	-----	B	B	C	B	B	2 3 * 3 * - -
HUONG THANH (B)	135	YD220693	101050209	DI DAN	CO	-----	B	B	C	B	B	2 3 * 3 * - -
BINH XUAN (B)	160	YD222682	101050210	DI DAN	CO	-----	B	B	C	B	B	2 3 * 3 * - -
TAN LICH (B)	279	YD219684	101050211	DI DAN	CO	-----	B	B	C	B	B	2 3 * 3 * - -
TAN HA (B)	164	YD219681	101050212	DI DAN	CO	-----	B	B	C	B	B	2 3 * 3 * - -
PHUONG XUAN (B)	244	YD218680	101050213	DI DAN	CO	-----	B	B	C	B	B	2 3 * 4 * - -
HAO AN (B)	227	YD223677	101050214	DI DAN	CO	-----	B	B	C	B	B	2 3 * 3 * - -
TAN VAN (B)	91	YD223684	101050215	DI DAN	CO	-----	B	B	C	B	B	2 3 * 3 * - -
LONG SON (B)	128	YD225677	101050216	DI DAN	CO	-----	B	B	C	B	B	2 3 * 4 * - -
GIO-LE	7,556	YD223684	101050200	TAI CHO	CO	-----	D	D	C	C	D	4 5 1 3 1 * 3
LE-MON	1,024	YD224680	101050201	TAI CHO	CO	-----	C	C	C	C	B	2 3 * 4 * - -
HA-TRUNG	1,907	YD217705	101050202	TAI CHO	CO	-----	C	C	C	B	C	2 3 * 3 * - -
TRUC-LAM	505	YD222666	101050203	TAI CHO	CO	-----	B	B	C	B	B	2 3 * 3 * - -
HA-THANH	592	YD217699	101050204	TAI CHO	KHONG	-----	D	D	C	C	D	2 1 * 3 * - -
HA-THUONG	3,113	YD221719	101050205	TAI CHO	CO	-----	D	D	C	C	D	2 3 * 3 * - -
LAC-TAN	415	YD217731	101050206	TAI CHO	KHONG	-----	D	D	C	C	D	2 1 * 3 * - -
GIO HA	7,659	YD280666	101050300	TAI CHO	CO	-----	C	C	C	B	D	4 5 1 3 1 * 1
PHUOC SA (B)	519	YD219690	101050239	DI DAN	CO	-----	B	B	C	B	B	2 3 * 3 * - -
MAI XA CHANH	3,148	YD278665	101050301	TAI CHO	CO	-----	C	C	C	B	C	2 3 * 3 * - -
LAM XUAN	1,323	YD269686	101050302	TAI CHO	CO	-----	B	B	C	B	B	2 3 * 9 * - -
MAI-XA THI	791	YD280666	101050303	TAI CHO	CO	-----	B	B	C	B	B	2 3 * 4 * - -
VINH QUANG THUONG	522	YD261648	101050304	TAI CHO	CO	-----	B	B	C	B	B	2 3 * 3 * - -
KY TRUC	314	YD249666	101050305	TAI CHO	CO	-----	B	B	C	B	B	2 3 * 3 * - -
KY LAM	243	YD250664	101050306	TAI CHO	CO	-----	B	B	C	B	B	2 3 * 3 * - -
VINH QUANG-HA	799	YD267648	101050308	TAI CHO	CO	-----	B	B	C	B	B	2 3 * 3 * - -

(1) VILLAGE/HAMLET NAME, (2) POPULATION, (3) UTM, (4) USID, (5) LOCATION STATUS - IN PLACE (TAI CHO) EXILE (DI DAN) NOT CENSUSED (CHJAKIEMKE) UNKNOWN (KHONG BIET) ABANDONED (BO HOANG), (6)-(7) GOVT ELECTED-APPOINTED - WITH THE PEOPLE (CO) OR NOT WITH THE PEOPLE (KHONG), (8) HES, (9) SEC, (10) CMD, (11) MLC, (12) PLC, (13) HVQE01-05/07

Figure 2-15
ADMINISTRATIVE ROSTER

HES SUMMARY REPORT / BAO CAO TOM LUOC HLA

31-01-71

BAO CAO TOM LUOC HE THONG LUONG GIA AP (HLA)
HE THONG LUONG GIA AP (HLA) DUOC TRINH BAY TRONG CUON CAM NANG
"HLA.DANH CHO CAP CHI HUY". HE THONG NAY DO NHA BAC CAC VA PHAN
TICH MACCORDS DAM NHIEM VA GIOI CHUC DIA PHUONG NHAT TU HANG
THANG. NHIEU LOAI BAO CAO VE HLA DUOC PHAT HANH MOI THANG VA
MOI TAM CA NGUYET DE DAP UNG NHU CAU CHO CAC QUAN TRI VIEN VA
PHAN TACH VIEN. CAC BAO CAO HLA CO TINH CACH CO GIAN, NHO VAY
NHUNG NGUOI XU DUNG CO THE YEU CAU SLA DOI BAO CAC NAY CHO
GON GHE VA DAP UNG DUOC NHU CAU CUA MINH. TOAN BO HLA DUOC
TRINH BAY TRONG CUON "CAM NANG HLA CHO NGUOI XU DUNG"
     NEU CAN CO THEM TAI LIEU VE TIN TUC HAY BAC CAO THUOC HLA
NGUOI XU DUNG CO THE LIEN LAC BANG DIEN THOAI VOI .KHOI BAO CAC
PHAN TICH TTDH/BDPT/TU, DIEN THOAI Q.S.40742 ,DS. 9C293 HOAC
GUI VAN THU VE TTCH/BDPT/TU (KHOI BAO CHO & PHAN TICH) PHU THU
TUONG KBC.6427

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*       THE HAMLET EVALUATION SYSTEM (HES) AS DESCRIBED IN THE
*  HES COMMAND MANUAL IS MAINTAINED BY MACCORDS/RAD AND IS
*  UPDATED MONTHLY BY FIELD PERSONNEL. VARIOUS HES REPORTS ARE
*  PRODUCED MONTHLY AND QUARTERLY TO MEET THE REQUIREMENTS OF
*  BOTH MANAGERS AND ANALYSTS. THE FLEXIBILITY OF THE HES
*  REPORT SET ENABLES HES USERS TO REQUEST CONCISE .REPORTS
*  TAILORED TO MEET THEIR NEEDS. THE ENTIRE HES REPORT SET IS
*  DESCRIBED IN THE "HES USER'S GUIDE".
*
*       USERS REQUIRING ADDITIONAL HES INFORMATION OR HES
*  REPORTS ARE INVITED TO CONTACT MACCORDS/RAD BY PHONE AT
*  MACV 3493 OR USE THE SPACE BELOW TO DESCRIBE THE DATA
*  DESIRED AND FORWARD IT TO
*
*            HQ MACV
*            MACCORDS/RAD-A
*            ATT - INFORMATION REQUIREMENTS OFFICER
*            APO 69222
*
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
* USE THIS SPACE TO DESCRIBE IN DETAIL THE TYPE OF DATA
* DESIRED -
*
*  REQUESTOR -----------------------------      DATE --------
*  ADDRESS   -----------------------------
*            -----------------------------      PHONE -------
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*            -----------------------------
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39

Figure 2-16
SUMMARY REPORT (Page 1 of 3)

HES SUMMARY REPORT / BAO CAO TOM LUOC HLA

31-12-70

PERCENT OF HAMLETS RATED A OR B / TY LE BACH PHAN SO AP XEP HANG A HAY B

PROVINCE / TINH	TOTAL / CONG	RANK / THU HANG	HES RATING / XEP HANG HLA — THIS MONTH / THANG NAY	1 MO CHG / SAI BIET / THANG TRUOC	BASE CHG / SAI BIET / SO VOI NGAY *	SECURITY / AN-NINH — THIS MONTH / THANG NAY	1 MO CHG / SAI BIET / THANG TRUOC	BASE CHG / SAI BIET / SO VOI NGAY *	COMM DEVELOPMENT / CONG DONG P. TRIEN — THIS MONTH / THANG NAY	1 MO CHG / SAI BIET / THANG TRUOC	BASE CHG / SAI BIET / SO VOI NGAY *	POLITICAL / CHINH-TRI — THIS MONTH / THANG NAY	1 MO CHG / SAI BIET / THANG TRUOC	BASE CHG / SAI BIET / SO VOI NGAY *	MILITARY / QUAN-SU — THIS MONTH / THANG NAY	1 MO CHG / SAI BIET / THANG TRUOC	BASE CHG / SAI BIET / SO VOI NGAY *
RVN	11,781		62.5	1.0+	2.4+	62.7	1.0+	2.5+	35.8	1.1+	1.0+	66.5	1.6+	1.8+	76.2	0.3+	2.9+
MR 1	2,084		73.7	1.0+	4.3+	73.7	1.0+	4.3+	22.7	1.0-	0.6-	79.5	4.5+	5.6+	82.8	3.3-	1.8+
MR 2	2,975		50.4	0.8+	2.3+	51.5	0.9+	2.9+	19.8	0.1+	0.2-	55.5	1.1+	1.2+	67.2	1.1+	4.5+
MR 3	2,487		77.9	0.1+	1.6+	77.9	0.1+	1.6+	59.9	1.1+	1.4+	81.8	1.0+	1.0+	87.9	1.1-	0.4+
MR 4	4,235		56.4	1.7+	2.1+	56.4	1.7+	2.1+	39.3	2.9+	2.4+	58.9	0.9+	0.9+	72.4	2.4+	3.9+
MR 1	2,084		73.7	1.0+	4.3+	73.7	1.0+	4.3+	22.7	1.0-	0.6-	79.5	4.5+	5.6+	82.8	3.3-	1.8+
QUANG TRI	455	(4)	91.6	2.0+	7.7+	91.6	2.0+	7.7+	20.0	9.2+	9.2+	95.8	6.4+	6.2+	94.7	1.3-	9.9+
THUA THIEN	458	(5)	90.0	15.4+	15.9+	90.2	15.6+	16.1+	19.2	8.2-	8.2-	90.0	15.4+	15.4+	98.3	0.5+	0.4-
QUANG NAM	314	(25)	52.5	9.2-	8.5-	52.5	9.2-	8.5-	16.2	3.9-	3.9-	67.5	2.8-	2.8-	66.6	8.2-	7.2-
QUANG TIN	283	(20)	65.4	2.1-	5.2+	65.4	2.1-	5.2+	25.8	1.4-	1.3+	69.6	0.0+	6.9+	74.6	0.7-	7.1+
QUANG NGAI	404	(35)	46.0	6.4-	2.8-	46.0	6.4-	2.8-	26.2	1.1+	1.3+	57.2	0.6+	0.7+	62.9	9.3-	1.8-
HUE	32		100.0	0.0+	0.0+	100.0	0.0+	0.0+	90.6	0.0+	0.0+	100.0	0.0+	0.0+	100.0	0.0+	0.0+
DANANG	138		100.0	0.0+	0.0+	100.0	0.0+	0.0+	25.4	9.4-	9.4-	98.6	0.0+	0.0+	100.0	0.0+	0.0+
MR 2	2,975		50.4	0.8+	2.3+	51.5	0.9+	2;9+	19.8	0.1+	0.2-	55.5	1.1+	1.2+	67.2	1.1+	4.5+
KONTUM	250	(16)	70.0	6.4-	3.2-	72.0	4.4-	1.2-	10.8	4.8-	4.8-	72.8	6.4-	6.4-	90.0	6.0+	11.6+
BINH DINH	582	(40)	39.3	0.5+	2.8+	39.9	0.6+	3.4+	23.2	3.6-	4.9-	45.5	1.2+	1.7+	56.2	0.6+	8.1+
PLEIKU	518	(44)	25.5	0.9-	1.9+	28.6	1.1-	3.8+	3.1	0.0+	0.0+	24.9	0.3-	0.2-	41.5	1.2-	0.2+
PHU BON	139	(9)	86.3	0.0+	1.3+	86.3	0.0+	1.3+	15.8	5.7+	5.8+	87.1	0.8+	1.4+	92.1	2.9-	0.0+
PHU YEN	238	(41)	36.6	3.0+	0.5+	36.6	3.0+	0.5+	18.5	2.1-	2.1-	41.6	5.0-	4.2-	53.8	6.3+	5.5+
DARLAC	345	(28)	49.9	1.1+	0.3+	50.4	1.6+	0.8+	5.5	0.2+	0.2+	60.9	6.5+	6.4+	75.1	3.6-	4.1-
KHANH HOA	277	(18)	69.0	0.0+	1.0+	69.0	1.5-	0.4-	29.6	4.3+	4.3+	73.3	0.7+	0.0+	85.9	0.8+	5.1+
NINH THUAN	123	(3)	93.5	1.6+	2.4+	93.5	1.6+	2.4+	52.8	11.3+	11.3+	95.1	2.4+	3.2+	98.4	0.8-	1.7+
TUYEN DUC	109	(42)	33.9	6.5-	4.6-	33.9	6.5-	4.6-	31.2	4.6+	1.8+	65.1	2.7+	3.6+	36.7	19.3-	11.0-
QUANG DUC	49	(29)	49.0	4.1+	14.3+	61.2	4.1+	14.3+	2.0	8.2-	8.2-	79.6	0.0+	2.0+	69.4	10.2+	20.4+
LAM DONG	88	(8)	86.4	4.5-	1.1-	86.4	4.5-	1.1-	62.5	9.1-	9.1-	86.4	0.0+	1.1-	94.3	4.6-	1.1+
BINH THUAN	174	(23)	55.7	8.6+	9.1+	55.7	8.6+	9.1+	41.4	8.1+	8.1+	60.9	4.0+	4.0+	70.1	5.2+	7.5+
CAM RANH	40		55.0	10.0+	10.0+	55.0	10.0+	10.0+	0.0	0.0+	0.0+	30.0	7.5-	7.5-	100.0	2.5+	2.5+
DALAT	43		53.5	53.5+	53.5+	53.5	53.5+	53.5+	39.5	0.0+	2.3+	46.5	46.5+	46.5+	90.7	72.1+	72.1+

BASE / THANG = 31-10-70

Figure 2-16
SUMMARY REPORT (Page 2 of 3)

40

HES SUMMARY REPORT / BAO CAO TOM LUOC HLA

-----SECURITY----- -----AN-NINH-----

31-12-70

HAMLETS / SO AP

---- TY LE A-B ---- ---- TY LE C ------ -- TY LE D-E-N-- -- --------------- TY LE XEP THEO HANG -------------

TINH / PROVINCE	TY LE THU HANG A-B / A/B RANK	PCT AB CATEGORIES THIS MONTH	1 MO CHG	BASE CHG	PCT C CATEGORY THIS MONTH	1 MO CHG	BASE CHG	PCT DEN CATEGORIES THIS MONTH	1 MO CHG	BASE CHG	A	B	C	D	E	N	CONG / TOTAL
RVN		62.7	1.0+	2.5+	26.8	0.2-	0.6-	10.5	0.7-	1.9-	547	6,845	3,153	834	371	31	11,781
MR 1		73.7	1.0+	4.3+	20.7	1.1-	2.6-	5.6	0.1+	1.7-	182	1,354	432	61	53	2	2,084
MR 2		51.5	0.9+	2.9+	33.1	0.1+	0.2-	15.4	1.0-	2.7-	70	1,462	986	263	177	17	2,975
MR 3		77.9	0.1+	1.6+	20.2	0.4-	1.5-	1.9	0.3+	0.2-	63	1,874	502	46	1	1	2,487
MR 4		56.4	1.7+	2.1+	29.1	0.1-	0.5+	14.5	1.6-	2.6-	232	2,155	1,233	464	140	11	4,235
MR 1		73.7	1.0+	4.3+	20.7	1.1-	2.6-	5.6	0.1+	1.7-	182	1,354	432	61	53	2	2,084
QUANG TRI	(4)	91.6	2.0+	7.7+	7.9	2.0-	8.2-	0.4	0.0+	0.4+	64	353	36	2	0	0	455
THUA THIEN	(5)	90.2	15.6+	16.1+	9.4	16.0-	16.3-	0.4	0.4+	0.2+	68	345	43	2	0	0	458
QUANG NAM	(26)	52.5	9.2-	8.5-	41.4	9.5+	9.1+	6.1	0.3-	0.6-	31	134	130	19	0	0	314
QUANG TIN	(20)	65.4	2.1-	5.2+	21.6	1.5+	2.8+	13.1	0.7+	7.9-	16	169	61	20	16	1	283
QUANG NGAI	(35)	46.0	6.4-	2.8-	40.1	6.6+	5.0+	13.9	0.2-	2.3-	3	183	162	18	37	1	404
HUE		100.0	0.0+	0.0+	0.0	0.0+	0.0+	0.0	0.0+	0.0+	0	32	0	0	0	0	32
DANANG		100.0	0.0+	0.0+	0.0	0.0+	0.0+	0.0	0.0+	0.0+	0	138	0	0	0	0	138
MR 2		51.5	0.9+	2.9+	33.1	0.1+	0.2-	15.4	1.0-	2.7-	70	1,462	986	263	177	17	2,975
KONTUM	(15)	72.0	4.4-	1.2-	27.2	5.2+	2.8+	0.8	0.8-	1.6-	0	180	68	2	0	0	250
BINH DINH	(40)	39.9	0.6+	3.4+	44.7	0.1-	0.0+	15.5	0.5-	3.3-	3	229	260	83	2	5	582
PLEIKU	(44)	28.6	1.1-	3.8+	23.6	2.1+	1.5-	47.9	0.8-	2.2-	9	139	122	75	161	12	518
PHU BON	(9)	86.3	0.0+	1.3+	12.9	0.0+	1.4-	0.7	0.0+	0.0+	17	103	18	0	1	0	139
PHU YEN	(41)	36.6	3.0+	0.5+	48.7	2.1+	10.5+	14.7	5.0-	10.9-	4	83	116	34	1	0	238
DARLAC	(29)	50.4	1.6+	0.8+	38.8	1.0-	2.3-	10.7	0.7-	1.3+	2	172	134	27	10	0	345
KHANH HOA	(18)	69.0	1.5-	0.4-	28.9	2.9+	4.0+	2.2	1.4-	3.5-	4	187	80	6	0	0	277
NINH THUAN	(3)	93.5	1.6+	2.4+	6.5	1.6-	2.4-	0.0	0.0+	0.0+	13	102	8	0	0	0	123
TUYEN DUC	(42)	33.9	6.5-	4.6-	54.1	0.9-	1.8+	11.9	7.3+	2.7+	0	37	59	13	0	0	109
QUANG DUC	(22)	61.2	4.1+	14.3+	38.8	2.0-	12.2-	0.0	2.0-	2.0-	0	30	19	0	0	0	49
LAM DONG	(8)	86.4	4.5-	1.1-	13.6	4.5+	1.1+	0.0	0.0+	0.0+	1	75	12	0	0	0	88
BINH THUAN	(24)	55.7	8.6+	9.1+	30.5	10.3-	12.6-	13.8	1.7+	3.5+	17	80	53	22	2	0	174
CAM RANH		55.0	10.0+	10.0+	45.0	10.0-	10.0-	0.0	0.0+	0.0+	0	22	18	0	0	0	40
DALAT		53.5	53.5+	53.5+	44.2	16.3-	4.7+	2.3	37.2-	58.2-	0	23	19	1	0	0	43

BASE / THANG = 31-10-70

41

Figure 2-16
SUMMARY REPORT (Page 3 of 3)

UNCLASSIFIED

THE FOLLOWING ARE DEFINITIONS OF THE HES MODEL ABBREVIATIONS USED AS COLUMN HEADINGS ON THE INFORMATION REPORT

MAJOR MODELS

HES --- HES RATING (AS DETERMINED BY SECURITY AND COMMUNITY DEVELOPMENT)
SEC --- SECURITY (AS DETERMINED BY MILITARY AND POLITICAL)
MIL --- MILITARY (AS DETERMINED BY ENEMY MILITARY, FRIENDLY MILITARY, AND IMPACT OF MILITARY ACTIVITY)
POL --- POLITICAL (AS DETERMINED BY ENEMY POLITICAL AND FRIENDLY POLITICAL)
CDV --- COMMUNITY DEVELOPMENT (AS DETERMINED BY FRIENDLY POLITICAL, POLITICAL PROGRAMS, SOCIAL PROGRAMS, AND ECONOMIC
                                                                                                           ACTIVITY)

MILITARY   COMMUNITY DEVELOPMENT

FRM --- FRIENDLY MILITARY   FRP --- FRIENDLY POLITICAL
FA ---- FRIENDLY MILITARY ACTIVITY   AD ---- ADMINISTRATION
FP ---- FRIENDLY MILITARY PRESENCE   LE ---- LAW ENFORCEMENT
PF ---- PSDF ACTIVITY   PM ---- POLITICAL MOBILIZATION
ENM --- ENEMY MILITARY   PLP --- POLITICAL PROGRAMS
EP ---- ENEMY MILITARY PRESENCE   DA ---- DEVELOPMENT ASSISTANCE
EA ---- ENEMY MILITARY ACTIVITY   LT ---- LAND TENURE
IM ---- IMPACT OF MILITARY ACTIVITY   PF ---- PSDF ACTIVITY
                                                                 IP ---- INFORMATION / PSYOPS
                                                                 RD ---- RD CADRE
     POLITICAL   SLP --- SOCIAL PROGRAMS
                                                                 PH ---- PUBLIC HEALTH
ENP --- ENEMY POLITICAL   ED ---- EDUCATION
PP ---- ENEMY POLITICAL PRESENCE   SW ---- SOCIAL WELFARE
PA ---- ENEMY POLITICAL ACTIVITY   EC ---- ECONOMIC ACTIVITY
FRP --- FRIENDLY POLITICAL
AD ---- ADMINISTRATION
LE ---- LAW ENFORCEMENT
PM ---- POLITICAL MOBILIZATION

UNCLASSIFIED

Figure 2-17
INFORMATION REPORT (Page 1 of 4)

UNCLASSIFIED

R7206P.00.0   H E S / H L A   PAGE / TRANG   79
7 FEB 71   INFORMATION REPORT / BAO CAO TIN TUC
                      31 DEC 70 / 31 CHAP 70

	HAMLET FLAGS			VILLAGE FLAGS	
NUM	DESCRIPTION	CODES	NUM	DESCRIPTION	CODES

HAMLET FLAGS

1 - URBAN/RURAL (0=RURAL 1=URBAN 8=N/A 9=UNK)
2 - DISTRICT CAP (1=WITHIN DIST CAP 9=NOT WITHIN DIST CAP)
3 - PROVINCE CAP (1=WITHIN PROV CAP 9=NOT WITHIN PROV CAP)
4 - NOT USED
5 - VILL ADMN CNTR (0=NOT ADMN CNTR 1=ADMN CNTR 8=N/A 9=UNK)
6 - NOT USED
7 - NOT USED
8 - REFUGEE (0=NON LOCALIZED CAMP 1=LOCALIZED CAMP 9=N/A
        2=COMBINATION LOCALIZED & NON LOCALIZED)
9 - REFUGEE (0=RTV HAMLET 9=NOT RTV HAMLET)

VILLAGE FLAGS

1 - URBAN/RURAL (0=RURAL 1=URBAN 8=N/A 9=UNK)
2 - REVOLUTIONARY COMM (0=NONE 1=ELECTED 2=APPOINTED 9=UNK)
3 - DISTRICT CAP (1=WITHIN DIST CAP 9=NOT WITHIN DIST CAP)
4 - PROVINCE CAP (1=WITHIN PROV CAP 9=NOT WITHIN PROV CAP)
5 - NOT USED
6 - NOT USED
7 - NOT USED
8 - NOT USED

SO THAM	TINH CHAT AP		SO THAM	TINH CHAT XA	
CHIEU	DIEN TA	SO HIEU	CHIEU	DIEN TA	SO HIEU

TINH CHAT AP

1 - THANH-THI/NONG THON (0=NONG THON 1=THANH THI 8=KHONG
       AP DUNG DUOC 9=KHONG BIET)
2 - QUAN LY (1=TRONG QUAN LY 9=NGOAI QUAN LY)
3 - TINH LY (1=TRONG TINH LY 9=NGOAI TINH LY)
4 - KHONG DUNG
5 - TRU SO HANH CHANH XA (0=KHONG PHAI TRU SO 1=DUNG LA
       TRU SO 8=KHONG AP DUNG DUOC 9=KHONG BIET)
6 - KHONG DUNG
7 - KHONG DUNG
8 - DONG BAO TY NAN (0=NGOAI TRAI 1=0 TRONG TRAI 2=VUA 0
       TRONG TRAI VUA 0 NGOAI TRAI 9=KHONG PHAI DONG BAO
       TY NAN)
9 - DONG BAO TY NAN (0=AP DONG BAO TY NAN HOI CU 9=AP DONG
       BAO TY NAN LANH CU)

TINH CHAT XA

1 - THANH-THI/NONG THON (0=NONG THON 1=THANH THI 8=KHONG AP
       DUNG DUOC 9=KHONG BIET)
2 - UY BAN CACH MANG (0=KHONG CO 1=DAN CU 2=CHI DINH 9=KHONG
       BIET)
3 - QUAN LY (1=TRONG QUAN LY 9=NGOAI QUAN LY)
4 - TINH LY (1=TRONG TINH LY 9=NGOAI TINH LY)
5 - KHONG DUNG
6 - KHONG DUNG
7 - KHONG DUNG
8 - KHONG DUNG

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Figure 2-17
INFORMATION REPORT (Page 2 of 4)

43

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BEGINNING/KHOI DAU
III CORPS/III QUAN DOAN

SNDHK TEN AP TOA DO	DAN-SO INDICATORS	CHI HIEU CHINH -MAJOR MODELS- H S M P C	--QUAN-SU--- --MILITARY-- F E	--CHIN-TRI- -POLITICAL- E F	PHAT-TRIEN CONG-DONG -COMM DEVELOPMENT---- F P S
JSID HAMLET NAME UTM	POPULATION 123456789	E E E O D S C L L V	R FFP N EE I M APF M PA M	N PP R ALP P PA P DEM	R ALP L OLPIR L PES E P DEM P ATFPO P HOW C
CORPS/QUAN III	5265629	B B A B B	A/AAB B/BA A	B/AB B/AAB	B/AAB B/BCBAB B/AAB A
NON-HAM POP/DAN NGOAI AP	32320				
PROV/TINH 18 BINH TUY	69683	C C C B B	B/CBB C/CB B	B/3B A/AAA	A/AAA B/ACBBB B/BBC B
NON-HAM POP/DAN NGOAI AP	1824				
DIST/QUAN 01 HAM TAN	36948	B B B B B	B/BBB B/BB A	B/3A A/AAA	A/AAA C/ADBAB A/AAB A
NON-HAM POP/DAN NGOAI AP	11				
VILL/XA 01 PHUOC HOI	22507	19919999	B B B B B	B/BBC B/BB A	B/BA A/AAA	A/AAA C/AECAB A/AAB A
NON-HAM POP/DAN NGOAI AP	0		B B B B B	B/BAN C/BD B	B/BB A/AAA	A/AAA C/AENAB B/AAN A
0101 PHUOC THO	305	091909999	B B B B B	B/BBB B/BB A	B/3B B/AAB	B/AAB B/AEBAA A/AAB B
ZS019793					
0102 PHUOC LOC	3586	191909999	B B B B B	B/BBB B/BB A	B/3A A/AAA	A/AAA C/AEBAB A/AAB A
ZS035784					
0103 PHUOC LOI	4315	191909999	B B B B B	B/BAB C/BC A	B/BA A/AAA	A/AAA C/AEBAB A/AAB A
ZS040790					
0104 PHUOC HOA	3611	191909999	B B B B B	B/BBD B/BB A	B/BA A/AAA	A/AAA C/AEDAB A/AAB A
ZS040798					
0105 PHUOC THIEN	2071	091909999	B B B B B	B/BBB C/BC A	B/BB B/AAB	B/AAB C/AEBAB A/AAC A
ZS027803					
0106 PHUOC THUAN	1193	091909999	B B B B B	B/BBB B/BB A	B/BA B/AAB	B/AAB C/AEBAB A/AAC A
ZS016804					
0107 PHUOC THANH	3769	099909919	B B B B B	B/BBC B/BB A	B/BA A/AAA	A/AAA C/AECAB A/AAB A
ZS003826					
0108 PHUOC AN	1012	099909919	B B B B B	B/BBD B/BB A	B/BA A/AAA	A/AAA C/AEDAB A/AAB A
ZS018833					
0109 PHUOC BINH	1028	091909999	B B B B C	B/BBC B/BB A	B/BA B/AAB	B/AAB C/AECAB A/AAC B
ZS009833					

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Figure 2-17
INFORMATION REPORT (Page 3 of 4)

R7118P.00.0
9 MAY 71

H E S / H L A
INFORMATION REPORT / BAO CAO TIN TUC
31 MAR 71 / 31 BA 71

PAGE / TRANG 50

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101 - QUANG TRI
 03 - TRIEU CHONG
```

****** POPULATION IN THOUSANDS *****

	-A-	-B-	-C-	-D-	-E-	-N-	-V-	-A-	-B-	-C-	-D-	-E-	-N-	-V-	-AB-	-ABC-
	COUNT							PERCENT								
HES RATING	6	54	1	0	0	0	0	9.6	88.8	1.7	0.0	0.0	0.0	0.0	98.3	100.0
SECURITY	6	54	1	0	0	0	0	9.6	88.8	1.7	0.0	0.0	0.0	0.0	98.3	100.0
MILITARY	6	55	0	0	0	0	0	9.6	90.4	0.0	0.0	0.0	0.0	0.0	100.0	100.0
ENEMY MILITARY	6	55	0	0	0	0	0	9.6	90.4	0.0	0.0	0.0	0.0	0.0	100.0	100.0
ENEMY MILITARY PRESENCE	6	24	32	0	0	0	0	9.6	38.4	52.0	0.0	0.0	0.0	0.0	48.0	100.0
ENEMY MILITARY ACTIVITY	61	0	0	0	0	0	0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0
FRIENDLY MILITARY	0	61	0	0	0	0	0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0
FRIENDLY MILITARY PRESENCE	0	61	0	0	0	0	0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0
FRIENDLY MILITARY ACTIVITY	61	1	0	0	0	0	0	98.7	1.3	0.0	0.0	0.0	0.0	0.0	100.0	100.0
PSDF ACTIVITY	0	57	3	0	1	0	0	0.0	92.2	5.7	0.0	2.2	0.0	0.0	92.2	97.8
IMPACT OF MILITARY ACTIVITY	61	0	0	0	0	0	0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0
POLITICAL	8	53	1	0	0	0	0	12.7	85.7	1.7	0.0	0.0	0.0	0.0	98.3	100.0
ENEMY POLITICAL	8	53	1	0	0	0	0	12.7	85.7	1.7	0.0	0.0	0.0	0.0	98.3	100.0
ENEMY POLITICAL PRESENCE	8	54	0	0	0	0	0	12.7	87.3	0.0	0.0	0.0	0.0	0.0	100.0	100.0
ENEMY POLITICAL ACTIVITY	8	53	1	0	0	0	0	12.7	85.7	1.7	0.0	0.0	0.0	0.0	98.3	100.0
FRIENDLY POLITICAL	8	54	0	0	0	0	0	12.7	87.3	0.0	0.0	0.0	0.0	0.0	100.0	100.0
ADMINISTRATION	59	2	0	0	0	0	0	96.4	3.6	0.0	0.0	0.0	0.0	0.0	100.0	100.0
LAW ENFORCEMENT	52	9	0	0	0	0	0	85.1	14.9	0.0	0.0	0.0	0.0	0.0	100.0	100.0
POLITICAL MOBILIZATION	8	52	1	0	0	0	0	12.7	85.4	2.0	0.0	0.0	0.0	0.0	98.0	100.0
COMMUNITY DEVELOPMENT	0	28	33	0	0	0	0	0.0	45.7	54.3	0.0	0.0	0.0	0.0	45.7	100.0
FRIENDLY POLITICAL	8	54	0	0	0	0	0	12.7	87.3	0.0	0.0	0.0	0.0	0.0	100.0	100.0
ADMINISTRATION	59	2	0	0	0	0	0	96.4	3.6	0.0	0.0	0.0	0.0	0.0	100.0	100.0
LAW ENFORCEMENT	52	9	0	0	0	0	0	85.1	14.9	0.0	0.0	0.0	0.0	0.0	100.0	100.0
POLITICAL MOBILIZATION	8	52	1	0	0	0	0	12.7	85.4	2.0	0.0	0.0	0.0	0.0	98.0	100.0
POLITICAL PROGRAMS	0	58	3	0	0	0	0	0.0	94.8	5.2	0.0	0.0	0.0	0.0	94.8	100.0
DEVELOPMENT ASSISTANCE	60	1	0	0	0	0	0	98.5	1.5	0.0	0.0	0.0	0.0	0.0	100.0	100.0
LAND TENURE	0	45	17	0	0	0	0	0.0	73.1	26.9	0.0	0.0	0.0	0.0	73.1	100.0
PSDF ACTIVITY	0	57	3	0	1	0	0	0.0	92.2	5.7	0.0	2.2	0.0	0.0	92.2	97.8
INFORMATION/PSYOPS	37	24	0	0	0	0	0	60.6	39.4	0.0	0.0	0.0	0.0	0.0	100.0	100.0
RD CADRE	5	14	3	0	0	40	0	7.8	22.5	4.2	0.4	0.0	65.1	0.0	30.4	34.5
SOCIAL PROGRAMS	3	51	7	0	0	0	0	5.5	83.0	11.5	0.0	0.0	0.0	0.0	88.5	100.0
PUBLIC HEALTH	14	48	0	0	0	0	0	22.1	77.9	0.0	0.0	0.0	0.0	0.0	100.0	100.0
EDUCATION	3	17	39	3	0	0	0	4.7	27.9	63.3	4.1	0.0	0.0	0.0	32.6	95.9
SOCIAL WELFARE	3	47	2	10	0	0	0	4.6	75.8	3.5	16.1	0.0	0.0	0.0	80.4	83.9
ECONOMIC ACTIVITY	1	28	27	5	0	0	0	2.0	45.3	44.7	7.9	0.0	0.0	0.0	47.3	92.1

45

Figure 2-17
INFORMATION REPORT (Page 4 of 4)

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| REPORT NUMBER R7223.00.0 | HES. VILLAGE/HAMLET GAZETTEER | PAGE 1 |
| RUN DATE 16 MAR 71 | AS OF 28 FEB 71 | USID SEQUENCE |

CORPS - 1
PROVINCE - QUANG TRI

DISTRICT	VILLAGE	HAMLET	USID	UTM	POPULATION			N-HAM	ADMIN ID
					TOTAL	PERM	TEMP		
HAI LANG	HAI-AN		101010100		4,413	2,796	1,617	0	101010103
HAI LANG	HAI-AN	TAN-AN	101010101	YD466584	1,364	1,364	0		101010100
HAI LANG	HAI-AN	MY-THUY	101010102	YD466583	1,048	1,048	0		101010100
HAI LANG	HAI-AN	THUAN-DAU	101010103	YD466585	384	384	0		101010100
HAI LANG	HAI-AN	TRUNG AN (B)	101010104	YD461586	930	0	930		101010600
HAI LANG	HAI-AN	THAM KHE (B)	101010105	YD463584	687	0	687		101010600
HAI LANG	HAI-BA		101010200		3,785	3,785	0	0	101010201
HAI LANG	HAI-BA	BA DU	101010201	YD448540	288	288	0		101010200
HAI LANG	HAI-BA	CO-LUY	101010202	YD454535	1,207	1,207	0		101010200
HAI LANG	HAI-BA	DA-NGHI	101010203	YD458529	569	569	0		101010200
HAI LANG	HAI-BA	PHUONG LANG DUONG	101010204	YD442547	1,147	1,147	0		101010200
HAI LANG	HAI-BA	PHUONG LANG TAY	101010205	YD436553	479	479	0		101010200
HAI LANG	HAI-BA	PHU-HAI	101010206	YD420553	95	95	0		101010200
HAI LANG	HAI-CHANH		101010300		3,402	3,402	0	0	101010303
HAI LANG	HAI-CHANH	HOI-KY	101010301	YD471401	442	442	0		101010300
HAI LANG	HAI-CHANH	VAN-PHONG	101010302	YD480384	117	117	0		101010300
HAI LANG	HAI-CHANH	MY-CHANH	101010303	YD464401	1,365	1,365	0		101010300
HAI LANG	HAI-CHANH	TAN-LUONG	101010304	YD464396	257	257	0		101010300
HAI LANG	HAI-CHANH	XUAN-LOC	101010305	YD457394	352	352	0		101010300
HAI LANG	HAI-CHANH	VUC-KE	101010306	YD464396	119	119	0		101010300
HAI LANG	HAI-CHANH	TRUNG-CHANH	101010307	YD468388	398	398	0		101010300
HAI LANG	HAI-CHANH	TAN VAN HIEP	101010311	YD464404	352	352	0		101010300
HAI LANG	HAI-DUONG		101010400		1,798	1,798	0	0	101010401
HAI LANG	HAI-DUONG	DONG-DUONG	101010401	YD508493	200	200	0		101010400
HAI LANG	HAI-DUONG	DIEN-KHANH	101010402	YD492503	740	740	0		101010400
HAI LANG	HAI-DUONG	AN-NHON	101010403	YD511494	194	194	0		101010400
HAI LANG	HAI-DUONG	XUAN-VIEN	101010404	YD516492	232	232	0		101010400
HAI LANG	HAI-DUONG	KIM-GIAO	101010405	YD486508	432	432	0		101010400
HAI LANG	HAI-KINH		101010500		3,821	3,821	0	0	101010501
HAI LANG	HAI-KINH	HUNG-NHON	101010501	YD485445	854	854	0		101010500
HAI LANG	HAI-KINH	AN-THO	101010502	YD493451	1,244	1,244	0		101010500
HAI LANG	HAI-KINH	PHU-KINH	101010503	YD497458	1,433	1,433	0		101010500
HAI LANG	HAI-KINH	HOI-DIEN	101010504	YD475469	290	290	0		101010500
HAI LANG	HAI KHE (B)		101010600		0	0	0	0	101010602

46

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Figure 2-18
HES GAZETTEER

THE FOLLOWING HAMLETS/VILLAGES ARE AFFECTED BY THE CONDITIONS LISTED BELOW THEM

USID	VILLAGE NAME	HAMLET NAME	POPULATION	LOCATION	GVN	HAMLETS	HES	SEC	MIL	POL	CDV
433030601		TAN PHONG	953	XS285515	123		C	C	C	C	D

241 - HAMLET RATED A, B OR C IN SECURITY BUT HAMLET CHIEF NOT REGULARLY PRESENT IN HAMLET

| 433030603 | | TAN HIEP HOA | 1,335 | XS275535 | | | D | D | D | C | D |

242 - HAMLET RATED D OR E IN SECURITY BUT HAS GOOD ECONOMIC ACTIVITY

| 433030700 | TAN BINH | | 6,724 | | | 06 | B | B | B | B | C |

347 - VILLAGE HAS EXCELLENT ADMINISTRATION
348 - VILLAGE HAS EXCELLENT RESPONSE TO LOCAL ASPIRATIONS AND GRIEVANCES

| 433030800 | MY HANH TRUNG | | 4,152 | | | 03 | C | C | C | C | C |

347 - VILLAGE HAS EXCELLENT ADMINISTRATION
348 - VILLAGE HAS EXCELLENT RESPONSE TO LOCAL ASPIRATIONS AND GRIEVANCES

| 433030802 | | NANG CHUNG | 1,932 | XS245535 | 130 | | C | C | C | C | D |

241 - HAMLET RATED A, B OR C IN SECURITY BUT HAMLET CHIEF NOT REGULARLY PRESENT IN HAMLET

| 433030900 | MY PHUOC TAY | | 7,041 | | | 04 | B | B | B | B | C |

347 - VILLAGE HAS EXCELLENT ADMINISTRATION

| 433030901 | | KINH 12 | 5,436 | XS193582 | 131 | | B | B | B | B | C |

209 - GVN ADVERSE ACTIONS MAY ALIENATE HAMLET POPULACE FROM GVN

| 433030904 | | LANG BIEN | 350 | XS237632 | 503 | | C | C | B | C | D |

244 - INADEQUATE HAMLET PUBLIC HEALTH SERVICES

| 433030905 | | BA BEO | 800 | XS247578 | | | C | C | C | C | D |

244 - INADEQUATE HAMLET PUBLIC HEALTH SERVICES

| 433031000 | THANH PHU | | 2,510 | | | 02 | D | D | C | D | C |

347 - VILLAGE HAS EXCELLENT ADMINISTRATION

| 433031003 | | MY PHU THANH | 1,130 | XS150577 | | | E | E | D | E | D |

212 - HAMLET NOT PHYSICALLY CONTROLLED BY VC HAS NO GVN HAMLET CHIEF

| 433031100 | CAM SON | | 300 | | | 02 | E | E | D | E | D |

301 - VILLAGE TRADE AND TRAVEL RESTRICTED ON MAIN SURFACE ROUTE TO PROVINCE CAPITAL

Figure 2-19
CONDITIONS REQUIRING ATTENTION REPORT (Page 1 of 2)

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PROVINCE - 433 - DINH TUONG   AS OF DECEMBER 1970   USID SEQUENCE
DISTRICT - 02 - CAI BE

DISTRICT SUMMARY

DISTRICT TOTALS   11 VILLAGES   77 HAMLETS   79124 POPULATION

CONDITION - 303 - VILLAGE RATED A, B OR C IN SECURITY HAS FEW VCI AND GUERRILLAS IDENTIFIED
           1 VILLAGES (9.0PCT)   6 HAMLETS (7.7PCT)   10474 POPULATION (13.2PCT)

CONDITION - 317 - VILLAGE INFORMATION / PSYOPS NEEDS ATTENTION
           2 VILLAGES (18.1PCT)   4 HAMLETS (5.1PCT)   545 POPULATION (.6PCT)

CONDITION - 320 - NO VILLAGE DEVELOPMENT AND / OR PUBLIC WORKS PROJECTS AND NO GVN INTEREST
           2 VILLAGES (18.1PCT)   4 HAMLETS (5.1PCT)   545 POPULATION (.6PCT)

CONDITION - 324 - VILLAGE LAND REFORM COMMITTEE ACTION NEEDED BUT COMMITTEE EITHER NOT ORGANIZED OR INACTIVE
           2 VILLAGES (18.1PCT)   4 HAMLETS (5.1PCT)   545 POPULATION (.6PCT)

CONDITION - 347 - VILLAGE HAS EXCELLENT ADMINISTRATION
           5 VILLAGES (45.4PCT)   45 HAMLETS (53.7PCT)   54827 POPULATION (69.2PCT)

CONDITION - 348 - VILLAGE HAS EXCELLENT RESPONSE TO LOCAL ASPIRATIONS AND GRIEVANCES
           2 VILLAGES (18.1PCT)   24 HAMLETS (31.1PCT)   31720 POPULATION (40.0PCT)

CONDITION - 349 - VILLAGE CHIEF SHOULD BE COMMENDED FOR OUTSTANDING VILLAGE ORGANIZATION AND ADMINISTRATION
           1 VILLAGES (9.0PCT)   13 HAMLETS (16.8PCT)   27197 POPULATION (34.3PCT)

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Figure 2-19
CONDITIONS REQUIRING ATTENTION REPORT (Page 2 of 2)

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PROVINCE - 324 - TAY-NINH   AS CF SEPTEMBER 1970
DISTRICT - 01 - PHUCC NINH

THE FCLLOWING DISCREPANCIES HAVE BEEN DETECTED IN DATA SUBMITTED FOR THE MONTH OF SEPTEMBER 1970.   PLEASE VERIFY THE ACCURACY OF
THIS INFORMATION AND MAKE ANY NECESSARY ADJUSTMENTS TO THE QUESTION RESPONSES TO BE SUBMITTED FOR DECEMBER 1970.

USIC	VILLAGE/HAMLET NAME	DESCRIPTION	QUESTION/RESPONSE	QUESTION/RESPONSE
324010100	THAI-BINH			
324010103	BINH-PHONG	MISCCNDUCT OF FRIENDLY FORCES VS. SUCH FORCES NON-EXISTENT	VMCO1 = 0	HMCO2 = 2
324010200	TRI-BINH	ASSERTS PRESENCE AND NCN-PRESENCE OF NATIONAL POLICE	VQDO2 = 0	VQDO1 = 2
324010208	XOM RUCNG	MISCONDUCT OF FRIENDLY FORCES VS. SUCH FORCES NON-EXISTENT	VMCO1 = 0	HMCO2 = 2
324010500	THIEN-NGON			
324010501	MO-CCNG	ADEQUATE HAMLET SECURITY OPERATIONS BUT FREQUENT TERRORISM	HMBO5 = 2	HQCO3 = 2
		ADEQUATE HAMLET SECURITY OPERATIONS BUT FREQUENT TERRORISM	HMBO6 = 2	HQCO3 = 2
324010600	THANH-DIEN	ASSERTS IDENTITIES OF VCI KNOWN AND NC VCI PRESENCE	VQBO1 = 0	VQDO5 = 3
324010605	PHUOC DIEN I	MISCONDUCT OF FRIENDLY FORCES VS. SUCH FORCES NON-EXISTENT	VMCO1 = 0	HMCO2 = 2

49

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Figure 2-20
DATA DISCREPANCY REPORT

BINH
LONG
TAY NINH
BINH DUONG
LONG KHANH
BINH TUY
LAM DONG
NINH THUAN
BINH THUAN

2
3

HAU
SAIGON
BIEN HOA
KIEN
TUONG
PHONG
CHAU
DINH TUONG
4
PHUOC TUY
VUNG TAU
KIEN PHONG
KIEN GIANG
SA DEC
VINH LONG
KIEN HOA
GO CONG
VINH BINH
CHUONG THIEN
BA XUYEN
AN XUYEN
BAC LIEU
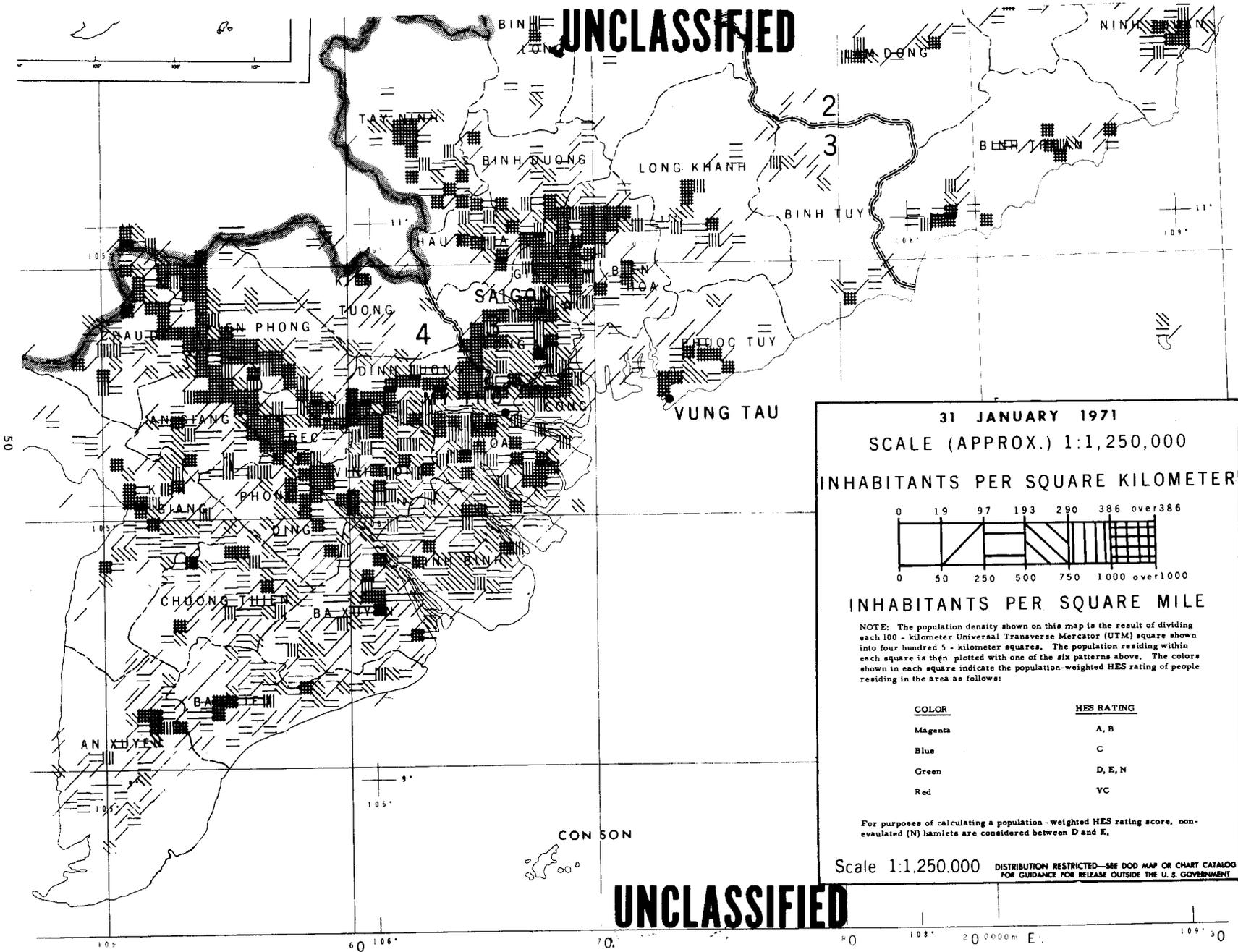
31 JANUARY 1971

SCALE (APPROX.) 1:1,250,000

INHABITANTS PER SQUARE KILOMETER

0	19	97	193	290	386	over386

0	50	250	500	750	1000	over1000
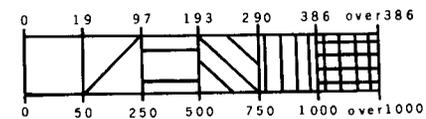
INHABITANTS PER SQUARE MILE

NOTE: The population density shown on this map is the result of dividing each 100 - kilometer Universal Transverse Mercator (UTM) square shown into four hundred 5 - kilometer squares. The population residing within each square is then plotted with one of the six patterns above. The colors shown in each square indicate the population-weighted HES rating of people residing in the area as follows:

COLOR	HES RATING
Magenta	A, B
Blue	C
Green	D, E, N
Red	VC

For purposes of calculating a population-weighted HES rating score, non-evaluated (N) hamlets are considered between D and E.

Scale 1:1,250,000 DISTRIBUTION RESTRICTED—SEE DOD MAP OR CHART CATALOG FOR GUIDANCE FOR RELEASE OUTSIDE THE U. S. GOVERNMENT

CON SON

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ACTIVITY OF THE VC INFRASTRUCTURE IN THE VILLAGE

PROVINCE - 101 - QLANG TRI
VARIABLE - VQB1
        CATE - 7012 .

YC400800
XC900100

AS CF 31 DEC 1970

KEY   VILLAGES

.   LITTLE OR NC OVERT ACTIVITY
1   SPORADIC OVERT ACTIVITY
2   REGULAR OVERT ACTIVITY AT NIGHT
3   REGULAR OVERT ACTIVITY DAY AND NIGHT
N   NOT REPORTEC

RESPONSE TRANSFORMATIONS
  FROM 0123489
    TO ..123NN

  SCALE -   515,500
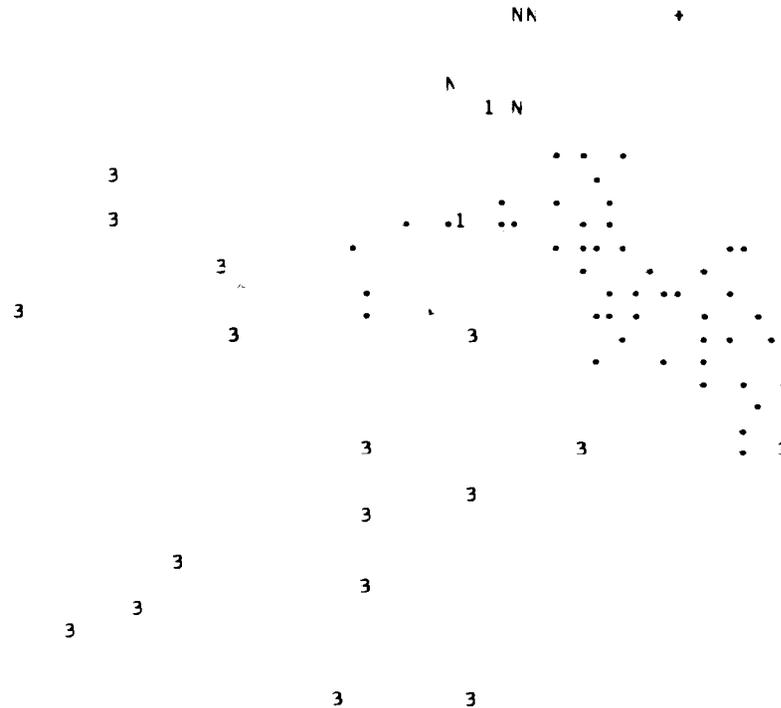
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APPENDIX A

GLOSSARY

GLOSSARY

This glossary contains definitions of terms, abbreviations, and acronyms used in the text of this manual. Terms used in the HES Question-Set are defined in Annex D (The HES Glossary) to the Hamlet Evaluation System Handbook, June 1971.

Term	Definition
ADP	Automatic Data Processing
ARVN	Army of the Republic of Vietnam
COMUSMACV	Commander, United States Military Assistance Command Vietnam
CRA	Conditions Requiring Attention Report
DEROS	Date of eligibility for return from overseas
DDR	Data Discrepancy Report
District Chief	The official appointed by the GVN to administer district affairs. In most cases, District Chiefs are GVN military officers.
DMA	Data Management Agency. The MACV agency that provides data processing support for the MACCORDS automated systems.
DPS	Data Presentation System
DSA	District Senior Advisor. The officer (or civilian) in charge of and responsible for the operation of U.S. district advisory teams. These teams are assigned to each district in RVN where there is a GVN District Chief. One responsibility of the DSA is to assure the timely completion and submission of the HES Update Form.
FWMAF	Free World Military Assistance Forces. Military forces other than US assisting GVN in RVN.
GCA	Generalized Condition Analysis
GVN	Government of Vietnam. The legal, elected government of the Republic of Vietnam.
GVN Serial Number	A three-digit number assigned by GVN to selected hamlets in Vietnam. Unlike the USID number, the GVN Serial Number may be duplicated or reused. GVN Serial Numbers should, however, be unique within each province. Typically, IDs are only assigned to "official" GVN hamlets.

A-2

Term	Definition
Hamlet	In some districts, hamlets are identified as geographic areas with surveyed boundaries which are contiguous throughout a village. In other areas, hamlets are identified only as an area of massed population without clearly defined boundaries. Hamlets exist for the purpose of internal village administration, and the number of hamlets within a specific village may fluctuate over a period of time according to the administrative needs of the village.
HES	(1) Hamlet Evaluation System. Automated System R1∅, designed for the evaluation of the pacification program at the hamlet level, which identified significant problem areas in addition to maintaining a hamlet data base. This system was supplanted by HES/70. (2) Hamlet Evaluation System. Automated System R7∅-79, implemented in 1970 as HES/70 and reaggregated for 1971. The reaggregated HES, R7∅-79 is the subject of this Command Manual.
HES/70	Hamlet Evaluation System 1970. The first version of Automated System R7∅-79, developed for the evaluation of the pacification program at both the hamlet and village level. The system was revised for 1971 and retermed the reaggregated HES.
HES Ledger Card	Hamlet and Village Ledger Cards. The cards used by DSAs in the field to record hamlet and village evaluation data.
HES Newsletter	A letter written by MACCORDS-RAD analysts to the DSAs and PSAs containing messages concerning erroneous updating, special problems, or messages of appreciation. (See Appendix E.)
MACCORDS	Military Assistance Command Civil Operations and Rural Development Support. The MACV agency responsible for the management of the US pacification effort in Vietnam.
MACCORDS-RAD	MACCORDS-Research and Analysis Directorate. The MACCORDS agency responsible for the design, development, and maintenance of most pacification systems, the distribution of pacification system reports, and the analysis of pacification data.
MACCORDS-RAD/A	MACCORDS-RAD, Analysis Division. The division of MACCORDS-RAD responsible for the review, error correction, and analysis of HES data, and the preparation of requests for reports in support of stated user requirements.
MACCORDS-RAD/ADP	MACCORDS-RAD, Automatic Data Processing Division. The division of MACCORDS-RAD responsible for coordinating production, programming resources, and distribution of the HES reports.

A-3

Term	Definition
MACV	Military Assistance Command, Vietnam.
Model	Any one of the 30 pacification indicators monitored in HES at any of the five levels. (The HES Model Hierarchy is shown in Figure 1-2).
MR	Military Region. RVN is divided into four military regions, formerly known as Corps Tactical Zones (CTZ), or corps.
NMCSSC	National Military Command System Support Center
Non-Hamlet Population	Population not living in, or not counted as living in, hamlets. May include refugees, migrants, members of the RVNAF and their families, and widely dispersed population.
PCM	Punched Card Machine
PSA	Province Senior Advisor. The officer in charge of and responsible for the U.S. province advisory team. One team is assigned to each province to advise the GVN Province Chief. One responsibility of the PSA is to ensure the timely completion and submission of HES Update Forms by the districts within the province.
PSDF	People's Self-Defense Force
Q-TAB	Question Table. The first set of records in the HES Basic Master File, which describe the content and order of all questions and models in the system.
Question Number	Each HES question is referenced by a three-position alpha, two-position numeric identification code. The first position designates hamlet or village level. The second position designates quarterly or monthly reporting. The third position designates the topic group. The two-digit number is the question number within the topic group:

H	Q	A	03
hamlet	quarterly	topic group	question number

V	M	B	02
village	monthly	topic group	question number

Term	Definition
RD	Rural Development
RVN	Republic of Vietnam
RVNAF	Republic of Vietnam Armed Forces
Rural Population	Population living in sparsely-populated hamlets, having limited or no commercial enterprises and relying on agriculture, forestry, or fishing for their livelihood.
TAOR	Tactical Area of Responsibility. A 14-segment breakdown of RVN along province boundaries according to ARVN Divisions' areas of responsibility. (Formerly, Division Tactical Area (DTA)).
Topic Group	Sets of HES questions dealing with the same topic or subject. A topic group can consist of both hamlet and village level questions and be reported both monthly and quarterly. Each topic group is assigned an identification letter (see Question Number).
Urban Population	Generally, population living in densely-populated hamlets having a significant business community.
US	United States
USAID	United States Agency for International Development
USID	United States Identification Number. Each component geopolitical level in RVN (hamlet, village, district, province, military region) has a unique U.S.-assigned identification number (USID or, commonly, ID). To afford complete identification of all levels, from region (the highest reporting unit) to hamlet (the lowest reporting unit), a nine-digit USID number is used, as shown below.

4	3	0	0	1	0	4	0	1

region   province   district   village   hamlet
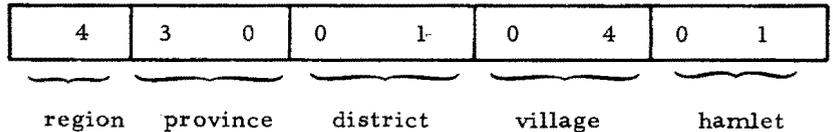
Note that region is the highest reporting unit and hamlet is the lowest. The first digit is the military region number; the second and third digits are the province number; fourth and fifth digits are the district number; sixth and seventh digits are the village number; and the eighth and ninth digits are the hamlet number.

A-5

Term	Definition
UTM	Universal Transverse Mercator. A standard grid system used to identify geographic points of areas. In HES; eight-position UTM coordinates are used (grid square plus six digits), providing accurate location of the hamlet geographic population centers to within 100 meters.
VC	Viet Cong
Village	Villages typically have surveyed boundaries and form contiguous coverage of the area of each district in the country. The average Vietnamese village contains five hamlets, although the number may vary from one to twenty five or more. A legal entity with administrative autonomy, the village is the basic echelon for rural administration in Vietnam.

APPENDIX B

HES QUESTION-SET AND LEDGER CARDS

HES QUESTION-SET AND LEDGER CARDS

The fundamental component of HES is a data base consisting of the HES Question-Set, 165 multiple-choice, uni-dimensional questions divided into two groups: those to be answered on a recurring basis each month, and those for which the responses are to be revalidated at least once a quarter. The questions are of four categories: hamlet monthly, hamlet quarterly, village monthly, and village quarterly. There are 25 questions collected monthly which relate to events and activities that may occur at any time during the month, dealing primarily with security situations and other activities subject to fairly rapid change. Responses to 140 questions concerning relatively stable government, economic, and social conditions are collected quarterly. Questions are asked at both the hamlet and village level, the two lowest levels of popular organization and administration in Vietnam. The HES questions are organized or subdivided into a number of topic groups. Each topic group consists of a set of questions (a maximum of ten) dealing with a specific aspect of pacification, such as Law Enforcement, Military Presence, and Public Health. The questions within the topic groups correspond closely with the HES Level 1 models, as illustrated in Figure B-1, which shows the HES models and their component questions.

It should be noted that the system's data base also includes question responses to one-time only questions (Topic Group MZ) that may be asked monthly at the hamlet and village level. This topic group is used to collect data on a one-time basis; the questions asked may be changed from month to month. These questions are not part of the HES Question-Set, but when used are generated to the field in the form of messages (question text and possible responses) on Section A of the Update Form (Communications). They are answered the following month by the DSA on Section B of the Update Form (Monthly Report Form) in the response blocks provided for Topic Group MZ one-time village or hamlet questions.

The topic groups in the HES Question-Set are keyed to the format of the HES Hamlet and Village Ledger Cards, which are in turn keyed to the format of the HES Update Form. This appendix contains samples of the HES ledger cards (see Figures B-2 and B-3), followed by the 165 questions that constitute the HES Question-Set. Instructions for completing the ledger cards and for transferring the responses to the HES monthly and quarterly questions from the cards onto the HES Update Form are contained in the Hamlet Evaluation System Handbook, June 1971, and are not included in this appendix.

One of the major areas of HES analysis is that of ensuring the validity of the data. This is accomplished by sending teams of investigators to the field to answer the HES questions, and then comparing their results to the advisor's responses. This permits correlation of multiple observations and the identification of differing interpretations of question responses. If significant differences do occur, the possible responses to the questions may be corrected or the advisor informed of possible errors in his reporting. The general level of objectivity of the HES Question-Set ensures that most situations should generally be observed in the same manner by several persons. The HES Handbook contains a glossary of terms used within the Question-Set (underscored within the questions) to provide uniform definitions of terms thought to be potentially unclear or open to multiple interpretation among the advisors.

B-2

LEVEL 5 MODEL	LEVEL 4 MODEL	LEVEL 3 MODELS	LEVEL 2 MODELS	LEVEL 1 SUB-MODELS	COMPONENT QUESTIONS

HES RATING

- SEC
  - MIL
    - EN MIL
      - EN-MIL-PRS — VMB2__HMB1__ / VQB2__B3__B4__ / HQC4__
      - EN-MIL-ACT — VMB1__HMB1__HMB2__B3__B4__D1__D2__D5__
    - FRN MIL
      - FRN-MIL-ACT — VMC1__C2__HMC3__D3__D4__D5__ / HQC2__C3__
      - FRN-MIL-PRS — HMD7__VQC1__C2__C3__C4__C5__C6__ / HQC1__C2__C3__C4__C5__E2__
      - PSDF-ACT — HMC4__ / HQC6__C7__
    - IMP-MIL-ACT — VMB2__C2__HMC1__C2__D1__D2__D3__D4__D6__D7__ / VQT6__ / HQD5__R5__
  - POL
    - EN POL
      - EN-POL-PRS — VQB1__B5__ / HQB1__B2__B3__F1__F2__
      - EN-POL-ACT — HMB5__B6__B7__B8__ / VQB1__HQB1__
    - FRN POL
      - ADMIN — VQC5__C6__D2__E1__E2__E3__E4__E5__E7__F5__F6__ / HQE1__E2__E4__F5__
      - LAW-ENFRC — VQD1__D2__D4__D5__D6__ / HQD1__D2__D3__D4__
      - POL-MOB — VQB1__F1__F2__F3__F4__ / HQB1__B3__C6__F1__F2__F3__F6__G4__N2__
- COM DEVEL
  - POL PROG
    - DEV-ASST — VQN1__N2__N3__N4__N5__ / HQN1__N2__
    - LAND TENURE — VQT1__T2__T3__T4__T5__T6__
    - PSDF-ACT — HMC4__ / HQC6__C7__
    - INFO-PSYOPS — VQG1__G2__G3__ / HQG1__G2__G3__G4__
    - RDC — VQF5__F6__F7__ / HQC6__F4__F5__F6__N2__
  - SOC PROG
    - PUB-HEALTH — VQP1__P2__P3__P4__ / HQP1__P2__
    - EDUCATION — VQR1__R2__R3__ / HQR1__R2__R3__R4__R5__
    - SOC-WELFARE — HQS1__S2__S3__S4__S5__
  - ECON-ACT — VQB5__E7__L1__L2__L3__T6__ / HQB2__G3__L1__L2__L3__S1__

Figure B-1

RELATIONSHIP OF HES MODELS AND
COMPONENT QUESTIONS

B-3

HAMLET LEDGER CARD

PHIẾU LÝ LỊCH ẤP

PROVINCE/ TỈNH _____

DISTRICT/ QUẬN _____

VILLAGE/ XÃ _____

HAMLET/ ẤP _____

HES ID/

SỐ NHÂN-DANH

HLA _____

MONTHLY REPORT/ BÁO CÁO HẰNG-THÁNG

	MA. GENERAL DAI CƯƠNG						MB. ENEMY ACTIVITIES HOẠT ĐỘNG ĐỊCH									MC. FRIENDLY ACTIVITIES HOẠT-ĐỘNG BẠN								
	1	2					1	2	3	4	5	6	7	8	1	2	3	4					
07-71																								07-71
08-71																								08-71
09-71																								09-71
10-71																								10-71
11-71																								11-71
12-71																								12-71
01-72																								01-72
02-72																								02-72
03-72																								03-72
04-72																								04-72
05-72																								05-72
06-72																								06-72
07-72																								07-72
08-72																								08-72

	MD. IMPACT OF ACTIVITIES ẢNH HƯỞNG HOẠT-ĐỘNG							Z. ONE - TIME QUESTIONS CÂU-HỎI CHỈ MỘT LẦN										
	1	2	3	4	5	6	7												
07-71																			07-71
08-71																			08-71
09-71																			09-71
10-71																			10-71
11-71																			11-71
12-71																			12-71
01-72																			01-72
02-72																			02-72
03-72																			03-72
04-72																			04-72
05-72																			05-72
06-72																			06-72
07-72																			07-72
08-72																			08-72

NOTES/ GHI CHÚ

HAMLET POPULATION DÂN-SỐ ẤP	PERMANENT RESIDENTS DÂN SỐ CƯ-NGỤ THƯỜNG-XUYÊN	TEMPORARY RESIDENTS DÂN SỐ CƯ-NGỤ TAM-THỜI	REMARKS CHÚ-THÍCH
3RD Q/ ĐỆ 3 TCN 71			
4TH Q/ ĐỆ 4 TCN 71			
1ST Q/ ĐỆ 1 TCN 72			
2ND Q/ ĐỆ 2 TCN 72			
3RD Q/ ĐỆ 3 TCN 72			

MACCORDS FORM 24
REVISED: 1 JUNE 1971

Figure B-2

HAMLET LEDGER CARD (Page 1 of 2)
(Front Side)

B-4

HES ID/

SỐ NHÂN-DANH HLA : _____

VILLAGE/ TÊN XÃ: _____

HAMLET/ TÊN ẤP: _____

A

General

ĐẠI CƯƠNG	1	2								
09-71										
12-71										
03-72										
06-72										
09-72										

B

Enemy Presence

HIỆN-DIỆN ĐỊCH	1	2	3							
09-71										
12-71										
03-72										
06-72										
09-72										

C

Friendly Security

AN-NINH BẠN	1	2	3	4	5	6	7	8	9	10
09-71										
12-71										
03-72										
06-72										
09-72										

D

Law Enforcement

THI-HÀNH PHÁP-LUẬT	1	2	3	4	5	6				
09-71										
12-71										
03-72										
06-72										
09-72										

E

Administration

HÀNH-CHÁNH	1	2	3	4	5					
09-71			⊠		⊠					
12-71			⊠		⊠					
03-72			⊠		⊠					
06-72			⊠		⊠					
09-72			⊠		⊠					

F

Political

CHÍNH-TRỊ	1	2	3	4	5	6				
09-71										
12-71										
03-72										
06-72										
09-72										

G

Info/Psyops

THÔNG-TIN/TLC	1	2	3	4	5					
09-71										
12-71										
03-72										
06-72										
09-72										

H

09-71										
12-71										
03-72										
06-72										
09-72										

L

Economic Activity

HOẠT-ĐỘNG KINH-TẾ	1	2	3							
09-71										
12-71										
03-72										
06-72										
09-72										

N

Development Proj

DỰ-ÁN PHÁT-TRIỂN	1	2	3							
09-71										
12-71										
03-72										
06-72										
09-72										

P

Public Health

Y-TẾ	1	2								
09-71										
12-71										
03-72										
06-72										
09-72										

R

Education

GIÁO DỤC	1	2	3	4	5					
09-71										
12-71										
03-72										
06-72										
09-72										

S

Social Welfare

XÃ-HỘI	1	2	3	4	5					
09-71										
12-71										
03-72										
06-72										
09-72										

T

09-71										
12-71										
03-72										
06-72										
09-72										

U

09-71										
12-71										
03-72										
06-72										
09-72										

V

09-71										
12-71										
03-72										
06-72										
09-72										

Z

Background

BỐI-CẢNH ĐỊA-LÝ	1	2	3	4	5	6				
09-71										
12-71										
03-72										
06-72										
09-72										

MACCORDS FORM 24

Figure B-2

HAMLET LEDGER CARD (Page 2 of 2)
(Reverse Side)

B-5

VILLAGE LEDGER CARD
PHIẾU LÝ LỊCH XÃ

HES ID/
SỐ NHÂN-DANH
HLA: _____

PROVINCE/ TỈNH _____
DISTRICT/ QUẬN _____
VILLAGE/ XÃ _____

MONTHLY REPORT/ BÁO-CÁO HẰNG-THÁNG

	Z. ONE-TIME QUESTIONS CÂU-HỎI CHỈ MỘT LẦN	MB. ENEMY ACTIVITIES HOẠT-ĐỘNG ĐỊCH		MC. FRIENDLY ACTIVITIES HOẠT-ĐỘNG BẠN		
		1	2	1	2	
07-71						07-71
08-71						08-71
09-71						09-71
10-71						10-71
11-71						11-71
12-71						12-71
01-72						01-72
02-72						02-72
03-72						03-72
04-72						04-72
05-72						05-72
06-72						06-72
07-72						07-72
08-72						08-72

HAMLET ROSTER/ DANH-SÁCH ẤP

HES HAMLET ID NUMBER SỐ NHÂN-DANH HLA CỦA ẤP	HAMLET NAME TÊN ẤP	UTM COORDS TOẠ-ĐỘ	POPULATION DÂN-SỐ	ADMINISTRATIVE ID ẤN-SỐ HÀNH-CHÁNH

	NON-HAMLET POPULATION DÂN NGOÀI ẤP	EXPLANATION OF NON-HAMLET POPULATION GIẢI-THÍCH VỀ DÂN NGOÀI ẤP
3RD QUARTER / ĐỆ 3 TCN 71		
4TH QUARTER / ĐỆ 4 TCN 71		
1ST QUARTER / ĐỆ 1 TCN 72		
2ND QUARTER / ĐỆ 2 TCN 72		
3RD QUARTER / ĐỆ 3 TCN 72		

MACCORDS FORM 25
REVISED: 1 JUNE 1971

Figure B-3

VILLAGE LEDGER CARD (Page 1 of 2)
(Front Side)

Figure B-3

VILLAGE LEDGER CARD (Page 2 of 2)
(Reverse Side)

B-7

The HES questions which follow are arranged in the four categories: hamlet monthly, hamlet quarterly, village monthly, and village quarterly. Code letters and titles assigned to each topic group (e.g., MA GENERAL) facilitate cross-referencing with response blocks on the ledger cards and HES Update Form. Note: The responses "Not Applicable" and "Unknown/Unable to Judge" apply to all questions and are not shown on the following pages. The answer code "8" is given for a "Not Applicable" response, and the answer code "9" is given for an "Unknown/Unable to Judge" response. (The latter should be used only when the DSA feels that there is no basis for making any other reasonable response estimate.) The reaggregated HES for 1971 contains 29 new questions. Three questions that appeared in the HES/70 Questionnaire have been deleted, and are noted as such in the Question-Set (VQE6, HQE3, HQE5). Other questions have been slightly reworded or new responses added.

Responses to the questions below are required as of the end of each month. The answers should reflect conditions within the geographic boundaries of the hamlet unless specified otherwise in the question.

MA. GENERAL

1. Did any US advisory personnel visit this hamlet during the month?

   0. No
   1. Yes, but for short duration only
   2. Yes, frequent visits of short duration only
   3. Yes, at least one extended visit (one hour or more)
   4. Yes, frequent extended visits
   5. Yes, US advisory personnel living in the hamlet

2. Did GVN district officials visit this hamlet during the month?

   0. No
   1. Yes, but for short duration only
   2. Yes, frequent visits of short duration only
   3. Yes, at least one extended visit (one hour or more)
   4. Yes, frequent extended visits
   5. Yes, district officials living in the hamlet

MB. ENEMY ACTIVITIES

1. Do enemy forces physically control this hamlet?

   0. No
   1. Yes
   2. Yes, defensive works have been constructed by enemy forces to establish a "combat hamlet"

2. Did the enemy initiate action against local security forces <u>in or near the hamlet</u> during the month?

   0. No
   1. Yes, once
   2. Yes, <u>sporadically</u> (less than once a week on the average)
   3. Yes, <u>repeatedly</u> (once a week or more on the average)

3. What was the most serious level of enemy-initiated military activity directed at <u>local security force</u> positions <u>in or near this hamlet</u>?

   0. None
   1. Minor harassment (sniping, mining, etc.)
   2. Attack by coordinated small arms or automatic weapons fire

3. (Continued)

   3. Attack by heavy weapons fire (mortar, rocket, RR, etc.)
   4. Ground assault - repelled
   5. Ground assault - friendly position overrun

4. Were armed enemy military forces present <u>in inhabited areas of this hamlet</u> during the month?

   0. No
   1. Yes, once
   2. Yes, <u>sporadically</u> (less than once a week on the average)
   3. Yes, <u>repeatedly</u> (once a week or more on the average)

5. Were any attempts at <u>selective terrorism</u> (kidnapping or assassination) directed at particular GVN officials, prominent residents or local leaders of the hamlet during the month?

   0. No
   1. Yes, once
   2. Yes, more than once

B-9

MB. ENEMY ACTIVITIES (Cont.)

6. Were any acts of general, or non-selective terrorism (mining, sabotage, harassing fire, bombing of a public place, etc.) directed against people of this hamlet during the month?

   0. No
   1. Yes, once
   2. Yes, more than once

7. Have incidents targeted against GVN non-military activities in this hamlet (GVN projects, offices, National Police, RD Cadre, etc.) occurred in the past month?

   0. No
   1. Yes, minor
   2. Yes, serious
   3. Yes, project or activity abandoned

8. Were any enemy propaganda meetings held or was printed propaganda distributed in this hamlet during the month?

   0. No
   1. Yes, once
   2. Yes, more than once

MC. FRIENDLY ACTIVITIES

1. Have there been incidents of personal misconduct involving local security forces and hamlet residents during the month?

   0. No
   1. Yes, but only minor
   2. Yes, serious

2. Have there been incidents of personal misconduct involving friendly external forces (forces normally based outside the village) and hamlet residents during the month?

   0. No
   1. Yes, but only minor
   2. Yes, serious

3. Have local security force operations resulted in contact with enemy forces during the month?

   0. No
   1. Yes, once
   2. Yes, more than once

4. Did the hamlet PSDF engage, or have opportunity to engage enemy forces during the month?

   0. No, no contacts
   1. Yes, PSDF performed poorly
   2. Yes, PSDF performed satisfactorily
   3. Yes, PSDF performed outstandingly

MD. IMPACT OF MILITARY ACTION

1. Were enemy military activities the direct cause of <u>civilian</u> casualties among hamlet residents?

    0. No
    1. Yes, but none killed
    2. Yes, some (1-5) killed
    3. Yes, more than five killed

2. Were enemy military activities the direct cause of physical damage to the property (personal possessions, livestock, crops, dwellings, etc.) of hamlet residents during the month?

    0. No
    1. Yes, minor
    2. Yes, serious but localized
    3. Yes, widespread

3. Were friendly military activites the direct cause of <u>civilian</u> casualties among hamlet residents?

    0. No
    1. Yes, but none were killed
    2. Yes, some (1-5) were killed
    3. Yes, more than five killed

4. Were friendly military activites the direct cause of physical damage to the property (personal possessions, live-stock, crops, dwellings, etc.) of hamlet residents during the month?

    0. No
    1. Yes, minor only
    2. Yes, serious but localized
    3. Yes, widespread

5. What has been the net impact of military activity <u>in or near this hamlet</u> during the month?

    0. Friendly activity, but no enemy contacts
    1. Significant victory for friendly forces
    2. Minor victory for friendly forces
    3. Neither defeat nor victory
    4. Minor defeat(s) of friendly forces
    5. Significant defeat of friendly forces
    6. No friendly activity

6. Did a significant number of <u>households</u> (more than 10%) move to this hamlet during the past month?

    0. No
    1. Yes, primarily from insecure areas
    2. Yes, but not primarily from insecure areas

7. Did a significant number of <u>households</u> (more than 10%) move out of this hamlet during the month?

    0. No
    1. Yes, primarily due to lack of security
    2. Yes, primarily for reasons other than lack of security

HAMLET LEVEL: QUARTERLY UPDATE

Response to the questions below are required to be updated at least once during each quarter. The answers should reflect conditions within the geographic boundaries of the hamlet unless specified otherwise in the question.

A. GENERAL

1. Which of the following is most representative of your source(s) of information in responding to questions about this hamlet?

   0. Sources at district level
   1. Sources at village level
   2. Sources at hamlet level·

2. Does the District Chief agree with responses reported by the DSA?

   0. No, strong disagreement; district chief more optimistic
   1. No, strong disagreement; district chief more pessimistic
   2. No, but only minor disagreement
   3. No, neither agreement or disagreement expressed
   4. Yes
   5. District chief was not consulted

B. ENEMY PRESENCE

1. Which of the following most closely reflects the status of the enemy infrastructure in this hamlet?

   0. VCI currently inactive
   1. Sporadic covert activity, or no overt activity
   2. Regular covert activity, sporadic overt activity generally at night
   3. The primary authority in the hamlet at night, but most operate covertly in the day
   4. The primary authority present day and night

2. Does the enemy collect taxes from hamlet households in or near the hamlet (in cash or in kind)?

   0. No
   1. Yes, sporadically (1-3 times a month)
   2. Yes, systematically

3. Do any hamlet households have a member or members who participated, by coercion or otherwise in enemy-organized non-military group activities (public meetings, demonstrations, work gangs, etc.) during the past quarter?

   0. No, none
   1. Yes, a few (less than 10%)
   2. Yes, some (10-40%)
   3. Yes, many (41-90%)
   4. Yes, all or nearly all

B-12

C. FRIENDLY SECURITY

1. Which of the following is primarily responsible for conducting military security operations, patrols, ambushes, listening posts, etc., in the immediate vicinity of this hamlet? (If more than one, select the force making the largest contribution.)

   0. No friendly security forces present
   1. Peoples Self-Defense Force (PSDF)
   2. National Police (NP)
   3. National Police Field Force (NPFF)
   4. Popular Force (PF)
   5. Regional Force (RF)
   6. CIDG
   7. ARVN/US/FWMAF

2. During daylight hours, do friendly local security forces conduct necessary security operations along approaches to this hamlet? (e.g., patrols, ambushes, listening posts, checkpoints, etc.)

   0. No
   1. Yes, but marginal
   2. Yes, adequate
   3. Not needed (no enemy threat)

3. During hours of darkness, do friendly local security forces conduct necessary security operations along appoaches to this hamlet? (e.g., patrols, ambushes, listening posts, checkpoints, etc.)

   0. No
   1. Yes, but marginal
   2. Yes, adequate
   3. Not needed (no enemy threat)

4. Are any hamlet households located in areas where enemy agents, recruiters, tax collectors and other cadre move about with relative freedom (openly with few precautions) during hours of darkness?

   0. No, none
   1. Yes, a few (less than 10%)
   2. Yes, some (10-40%)
   3. Yes, many (41-90%)
   4. Yes, all or nearly all

5. Are any hamlet households located in areas where GVN administrative personnel are unable to move about with relative freedom (openly with few precautions) during daylight hours?

   0. No, none
   1. Yes, a few (less than 10%)
   2. Yes, some (10-40%)
   3. Yes, many (41-90%)
   4. Yes, all or nearly all

6. Do any hamlet households have a member or members actively participating in the PSDF?

   0. No, none
   1. Yes, a few (less than 10%)
   2. Yes, some (10-40%)
   3. Yes, many (41-90%)
   4. Yes, all or nearly all

7. How active is the PSDF in this hamlet?

   0. None organized
   1. Organized, but inactive
   2. Training and drills only
   3. Organized non-military activity only
   4. Standing armed guard in the hamlet
   5. Armed patrols and guard within the hamlet

C. FRIENDLY SECURITY (Cont.)

8. Do local residents that are prime VC targets (members of PSDF, RDC, local government officials, young males, etc.) sleep in their homes at night?

    0. Yes
    1. No, a few (less than 10%) sleep in defensive works within the hamlet
    2. No, a few (less than 10%) travel to more secure areas at night
    3. No, 10-50% travel to more secure areas at night
    4. No, 51-90% travel to more secure areas at night
    5. No, more than 90% travel to more secure areas at night

9. Does the PSDF perform well as an internal defense force?

    0. No, there is no PSDF
    1. No, primarily because of a lack of equipment
    2. No, primarily because of poor deployment

9. (Continued)

    3. No, primarily because of a lack of training
    4. No, primarily because of a lack of aggressiveness
    5. PSDF is untested, but none of the above problems are evident
    6. Yes

10. Are local security forces adequate for hamlet defense?

    0. No, primarily because of a lack of equipment
    1. No, primarily because of poor deployment
    2. No, primarily because of a lack of training
    3. No, primarily because of a lack of aggressiveness
    4. Yes

D. LAW ENFORCEMENT

1. Which of the following is the primary GVN law enforcement element in this hamlet? (If more than one, select the force making the largest contribution.)

    0. No one enforces GVN laws
    1. Peoples Self-Defense Force (PSDF)
    2. National Police (NP)
    3. National Police Field Force (NPFF)
    4. Popular Force (PF)
    5. Regional Force (RF)
    6. Other

2. During daylight hours, do GVN authorities enforce the laws in this hamlet?

    0. No
    1. Yes, but marginal
    2. Yes, adequate

3. During hours of darkness, do GVN authorities enforce the laws in this hamlet?

    0. No
    1. Yes, but marginal
    2. Yes, adequate

4. How often are National Police or NPFF present in the hamlet?

    0. Never
    1. Infrequently (less than once a month)
    2. Sporadically (1-3 times a month)
    3. Periodically (once a week or more)
    4. Regularly present by day
    5. Regularly present, night and day

D. LAW ENFORCEMENT (Cont.)

5. Has a <u>curfew</u> been established by GVN authorities for the <u>inhabited areas of this hamlet</u>?

    0. No, no friendly presence
    1. No, no curfew established
    2. Yes, beginning after 2330
    3. Yes, beginning between 2131 and 2330
    4. Yes, beginning between dusk and 2130
    5. Yes, beginning at dusk or earlier

6. Has a <u>curfew</u> been established by GVN authorities for the areas surrounding the <u>inhabited parts of this hamlet</u>?

    0. No, no friendly presence
    1. No, no curfew established
    2. Yes, beginning after 2330
    3. Yes, beginning between 2131 and 2330
    4. Yes, beginning between dusk and 2130
    5. Yes, beginning at dusk or earlier

E. ADMINISTRATION

1. Is there a GVN hamlet chief for this hamlet?

    0. No
    1. Yes, appointed
    2. Yes, elected

2. Is the GVN hamlet chief <u>regularly</u> present in this hamlet?

    0. No
    1. No, <u>occasionally</u> (less than 50% of the time)
    2. Yes, <u>regularly</u>, but only by day
    3. Yes, <u>regularly</u> day and night

3. Who normally settles civil disputes (property rights, boundary disputes, etc.) involving hamlet residents?

    0. VC infrastructure officials
    1. Religious leaders, elders or prominent individuals (neither GVN nor VC officials)
    2. GVN officials

4. How often does the GVN village chief visit this hamlet?

    0. Never
    1. Less than once a month
    2. 1-4 times a month
    3. Twice a week or more
    4. Living in hamlet

5. Does this hamlet have regular representation at village council meetings?

    0. No
    1. Yes

F. POLITICAL

1. Do any hamlet <u>households</u> have a member or members <u>in enemy service</u>?

   0. No, none
   1. Yes, a few (less than 10%)
   2. Yes, some (10-40%)
   3. Yes, many (41-90%)
   4. Yes, all or nearly all

2. Do any hamlet <u>households</u> have a member or members working in GVN civil or military service (excluding PSDF)?

   0. No, none
   1. Yes, a few (less than 10%)
   2. Yes, some (10-40%)
   3. Yes, many (41-90%)
   4. Yes, all or nearly all

3. Do any hamlet <u>households</u> have a member or members participating in non-VC civic or religious organizations (Farmers' Associations, Co-op's, Boy Scouts, etc.)?

   0. No, none
   1. Yes, a few (less than 10%)
   2. Yes, some (10-40%)
   3. Yes, many (41-90%)
   4. Yes, all or nearly all

4. Have <u>RD Cadre</u> worked in this hamlet during the past quarter?

   0. No
   1. Yes, but no cadre currently working
   2. Yes, cadre currently working

5. What effect has the presence of <u>RD Cadre</u> in this hamlet had on hamlet government?

   0. Negative (undermining authority of chief causing dissention among officials, etc.)
   1. Neutral, no net effect either way
   2. Positive

6. Do any of the hamlet <u>households</u> have a member or members participating in "peoples' groups?"

   0. No, none
   1. Yes, a few (less than 10%)
   2. Yes, some (10-40%)
   3. Yes, many (41-90%)
   4. Yes, all or nearly all

G. INFORMATION/PSYOPS

1. Does the GVN Hamlet Chief have a trained hamlet Information/Chieu Hoi cadre?

   0. No
   1. No, appointed but not yet trained
   2. Yes, but not a full time resident of the hamlet
   3. Yes, resident full time

2. How often are new GVN static visual displays (posters, banners, etc.) posted in this hamlet?

   0. Never
   1. <u>Infrequently</u> (less than once a month)
   2. <u>Sporadically</u> (1-3 times a month)
   3. <u>Repeatedly</u> (once a week or more)

G. INFORMATION/PSYOPS (Cont.)

3. Do any <u>households</u> in this hamlet own a TV set?

    0. No
    1. Yes, a few (less than 10%)
    2. Yes, some (10-40%)
    3. Yes, many (more than 40%)

4. Did any hamlet <u>households</u> have a member or members attending any GVN-sponsored public meetings, award ceremonies, dedication ceremonies, etc., in the hamlet or village during the past quarter?

    0. No, no such ceremonies during the past quarter
    1. Yes, a few (less than 10%)

4. (Continued)

    2. Yes, some (10-40%)
    3. Yes, many (41-90%)
    4. Yes, all or nearly all

5. Do any households in this hamlet own radios?

    0. No
    1. Yes, a few (less than 10%)
    2. Yes, some (10-40%)
    3. Yes, many (41-90%)
    4. Yes, most or all (71-100%)

L. ECONOMIC ACTIVITY

1. Is there a <u>market</u> in this hamlet?

    0. No
    1. Yes, serves hamlet residents primarily
    2. Yes, serves residents of this hamlet and nearby hamlets of this village
    3. Yes, serves residents of this village and adjacent villages

2. Do motorized vehicles (such as sampans, tri-lambrettas, or larger) <u>regularly</u> travel to and from this hamlet?

    0. No
    1. Yes

3. Do any <u>households</u> in this hamlet own motorized vehicles (such as motorcycles, motorized sampans, cars, etc.)?

    0. No
    1. Yes, a few (less than 10%)
    2. Yes, some (10-40%)
    3. Yes, many (more than 40%)

N. DEVELOPMENT PROJECTS

1. Did any hamlet <u>households</u> have a member or members participating in GVN-sponsored or sanctioned economic improvement programs (agriculture, animal husbandry, fisheries, handicraft, etc.) during the past year?

   0. No, no such programs
   1. Yes, a few (less than 10%)
   2. Yes, some (10-40%)
   3. Yes, many (41-90%)
   4. Yes, all or nearly all

2. Did any hamlet <u>households</u> have a member or members who participated in GVN sanctioned village self-development projects during the year?

   0. No, no such projects
   1. Yes, a few (less than 10%)
   2. Yes, some (10-40%)
   3. Yes, many (41-90%)
   4. Yes, all or nearly all

3. Are <u>self-development</u> projects physically underway in this hamlet?

   0. No, none needed
   1. No, there have been no such projects
   2. No, there have been some projects completed but more are needed
   3. No, there have been some projects completed and no more are needed
   4. Yes, but they are progressing slowly
   5. Yes and they are progressing satisfactorily

P. PUBLIC HEALTH

1. Are <u>GVN sanctioned medical services accessible</u> to hamlet residents?

   0. No, none accessible
   1. Yes, but further than a nearby hamlet
   2. Yes, in a nearby hamlet
   3. Yes, in this hamlet

2. Do <u>GVN health workers</u> visit this hamlet to provide medical service, arrange for patient treatment, give health instruction, improve sanitation, etc?

   0. Never
   1. Yes, but <u>infrequently</u> (less than once a month)
   2. Yes, <u>sporadically</u> (1-3 times a month)
   3. Yes, <u>repeatedly</u> (once a week or more)
   4. Yes, resident in hamlet

B-18

R. EDUCATION

1. Are the children of hamlet residents able to attend primary school classes?

    0. No
    1. Yes, but school located further than nearby hamlet
    2. Yes, school located in nearby hamlet
    3. Yes, school located in this hamlet

2. Is the primary school attended by most of the students of this hamlet approved by the GVN?

    0. No (children do not attend school)
    1. No, not sanctioned
    2. Yes, privately supported
    3. Yes, government school

3. Is attendance at primary school classes restricted by lack of teachers?

    0. No
    1. Yes

4. Is attendance at primary school restricted by absence or overcrowding of nearby facilities?

    0. No
    1. Yes

5. Is attendance at primary school classes restricted because of security conditions?

    0. No
    1. Yes

S. SOCIAL WELFARE

1. Are there households in this hamlet which require assistance from others to maintain themselves at a subsistence level (friends, relatives, government, etc.)?

    0. No
    1. Yes, a few (less than 10%)
    2. Yes, some (10-40%)
    3. Yes, many (41-90%)
    4. Yes, all or nearly all

2. Have authorized resettlement allowances been paid to eligible refugees resettled in this hamlet during the past quarter?

    0. No, no eligible refugees
    1. No, needed but none paid
    2. Yes, but delayed or less than full amount or both
    3. Yes, promptly and in full amount

3. Has any welfare assistance been provided by non-GVN voluntary agencies (Catholic Relief, CARE, etc.) to needy or refugee households in this hamlet during the past quarter?

    0. No, none needed
    1. No
    2. Yes

4. Has any welfare assistance been provided by GVN sources to needy households in this hamlet (excluding assistance provided to GVN-recognized refugees) during the past quarter?

    0. No, none needed
    1. No
    2. Yes

B-19

S.   SOCIAL WELFARE (Cont.)

5.   Has assistance been provided by
     or through VN channels during the
     past quarter to hamlet <u>households</u>
     who have had their homes or property
     damaged or destroyed due to combat
     related activity in or near the hamlet?

     0.   No, none needed
     1.   No, needed but none provided
     2.   Yes, but insufficient or delayed
     3.   Yes, adequate

Z.   BACKGROUND

1.   Based on guidance given below, is
     this hamlet urban or rural in nature?

     0.   Rural
     1.   Urban

     GUIDANCE FOR URBAN/RURAL
     DIFFERENTIATION

a.   It is understood that there can be no
     hard and fast rules for what is and what
     is not an urban hamlet. Therefore, the
     following guidance should be considered
     as suggestive rather than definitive.
     For example, if a hamlet fits most
     of the descriptions of an urban hamlet,
     yet is in a population area less than
     the 20,000 figure cited below, it still
     may be considered urban.

b.   Urban areas differ from rural areas
     in both physical characteristics and
     in life styles of the residents.

     (1)   Generally, an urban hamlet is
           one which itself contains, or
           is part of, a population mass of
           20,000 or more.

     (2)   The population density is high.
           Houses are close together and the
           incidence of multi-family dwellings
           is high.

b.   (Continued)

     (3)   In an urban hamlet, there is a high
           likelihood of National Police
           presence.

     (4)   Most urban hamlets will have at
           least one gas station, probably
           several.

     (5)   There will be many shops and
           restaurants which are likely to
           have signs or billboards in front.

     (6)   As for life style, the chief charac-
           teristic is that an urban hamlet's
           primary occupation is business
           or commercial activity. The
           population is made up mostly of
           wage-earners. In a rural hamlet,
           of course, the primary occupation
           is farming or fishing. Notice that
           a "market hamlet" where much
           village business is conducted
           probably would be classified as
           rural if the primary occupation
           of the residents is still farming
           or fishing, depending of course
           on the other considerations.

Z. BACKGROUND (Cont.)

2. Which of the following best describes the character of this population center?

   0. A long-established hamlet
   1. A hamlet constructed within the past 5 years
   2. A hamlet constructed within the past year
   3. A refugee camp
   4. Other (clarify in your remarks)

3. What is the primary religion of this hamlet?

   0. No religion is primary
   1. Animist
   2. Buddhist (ancestor worship)
   3. Cao Dai
   4. Catholic
   5. Christian, other than Catholic
   6. Confucianism
   7. Hoa Hao

4. What is the primary ethnic strain present in this hamlet?

   0. No ethnic strain is primary
   1. Cambodian
   2. Cham
   3. Chinese
   4. Lao
   5. Montagnard
   6. Vietnamese

5. What is the primary occupation of hamlet residents?

   0. None (most resident unemployed)
   1. Rice farming
   2. Farming, other than rice
   3. Fishing
   4. Forestry
   5. Plantation labor
   6. Military service
   7. Laborers, trade, manufacturing or service industries

6. Is this hamlet the village administrative center?

   0. No
   1. Yes

VILLAGE LEVEL: MONTHLY RESPONSE

Responses to questions below are required as of the end of each month. The answers should reflect conditions in the geographic village unless specified otherwise in the question.

MB. ENEMY ACTIVITIES

1. What was the estimated size of the largest enemy local or main force unit present in or near inhabited areas of this village at any time during the month?

   0. None
   1. Less than a platoon
   2. About a platoon
   3. About a company
   4. A battalion or more

2. During the month, was the main surface route leading from this village to the province capital open during daylight hours?

   0. No
   1. Yes, but repeated enemy harassment or taxation (once a week or more on the average)
   2. Yes, sporadic enemy harassment or taxation (1-3 times a month on the average)
   3. Yes, no enemy harassment or taxation

MC. FRIENDLY ACTIVITIES

1. Have friendly external forces (forces normally based outside the village) operated in this village during the month?

   0. No
   1. Yes, no enemy contact
   2. Yes, light contact with enemy force
   3. Yes, heavy contact with enemy force

2. Were any friendly artillery fires or air strikes directed in or near the inhabited area of this village during the month?

   0. No
   1. Yes, once
   2. Yes, sporadically (less than once a week on the average)
   3. Yes, repeatedly (more than once a week on the average)

B-22

Responses to the questions below are required to be updated at least once during each quarter. The responses should reflect conditions within the geographic village unless specified otherwise in the question.

B. ENEMY PRESENCE

1. Which of the following most closely reflects the activity of the village level enemy infrastructure in the village?

   0. VCI currently inactive
   1. Sporadic covert activity, no overt activity
   2. Regular covert activity, sporadic overt activity
   3. Regular overt activity, but not firmly established
   4. Unchallenged authority in the village

2. What is the estimated size of the largest village guerrilla unit regularly present in this village? (Do not include local or main force units.)

   0. None
   1. Less than a squad
   2. About a squad
   3. About a platoon
   4. More than a platoon

3. What is the estimated size of the largest enemy main or local force unit regularly present in this village or adjacent villages?

   0. None
   1. Less than a platoon
   2. About a platoon
   3. About a company
   4. A battalion or more

4. Are there areas in or adjacent to this village which enemy forces use as assembly areas for operations against friendly activities in the general area?

   0. No
   1. Yes, temporary havens
   2. Yes, small base areas
   3. Yes, major base areas

5. Do enemy forces tax goods and produce moving to or from this village?

   0. No
   1. Yes, sporadically (1-3 times a month)
   2. Yes, repeatedly (once a week or more)

C. FRIENDLY SECURITY

1. Is there a GVN or US/FWMAF military base of company size or larger within or adjacent to this village? (Exclude all RF/PF.)

   0. No
   1. Yes, GVN only
   2. Yes, US/FWMAF only
   3. Yes, both GVN and US/FWMAF units, either of company size or larger

2. During daylight hours what is the probable reaction time of the nearest friendly ground reaction force if called upon for assistance by local security forces in this village?

   0. No reaction support available
   1. More than four hours
   2. 2-4 hours
   3. Less than two hours

B-23

C. FRIENDLY SECURITY (Cont.)

3. During hours of darkness what is the probable reaction time of the nearest friendly ground reaction force if called upon for assistance by local security forces in this village?

   0. No reaction support available
   1. More than four hours
   2. 2-4 hours
   3. Less than two hours

4. Can the local village security forces expect a reasonable degree of fire support (i.e., air, artillery, helicopter gunships, etc.) if the need arises?

   0. No
   1. Occasionally (less than 50% of the time)
   2. Nearly always

5. Has a formal plan for village security been formulated to coordinate the activities of the local security forces present in this village?

   0. No
   1. Yes, but plan is not followed
   2. Yes, plan is followed, but it works poorly
   3. Yes, plan is followed, and works well

6. Does the village chief have operational control over Popular Forces units assigned the mission of providing security for the people of this village?

   0. No, no Popular Forces
   1. No, no control
   2. Yes, partial
   3. Yes, complete

7. Has the village security plan to coordinate activities of local security forces present in the village been rehearsed during the quarter?

   0. No, no village security plan
   1. No, but a village security plan exists
   2. Yes, the plan was tested but did not work well
   3. Yes, the plan was tested and worked well

D. LAW ENFORCEMENT

1. Are National Police personnel regularly present in this village?

   0. No
   1. Yes
   2. Yes, National Police Substation located in the village

2. Does the village chief have operational control over National Police personnel working in this village?

   0. No, no National Police
   1. No, no control
   2. Yes, partial
   3. Yes, complete

D. LAW ENFORCEMENT (Cont.)

3. Has a <u>curfew</u> been established by GVN authority for civilian traffic on the <u>main route</u> leading from this village to nearby communities?

   0. No, no friendly presence
   1. No, no curfew established
   2. Yes, beginning after 2330
   3. Yes, beginning between 2131 and 2330
   4. Yes, beginning between dusk and 2130
   5. Yes, beginning at dusk or earlier

4. Are measures for the organization of the village population (issuance of <u>ID cards</u>, establishment of <u>Family Books</u>, census of village residents, etc.) complete and up to date?

   0. No
   1. Yes, for small part of village
   2. Yes, for most of the village
   3. Yes, entire village organized

5. Are the identities of members of the <u>enemy infrastructure</u> for this village known to <u>friendly intelligence personnel</u>?

   0. No, none
   1. Yes, a few (less than 10%)
   2. Yes, some (10-40%)
   3. Yes, many (41-90%)
   4. Yes, all or nearly all
   5. No <u>enemy infrastructure</u> exists for this village

6. Are the identities of the members of the enemy <u>village guerrilla unit</u> known to <u>friendly intelligence personnel</u>?

   0. No, none
   1. Yes, a few (less than 10%)
   2. Yes, some (10-40%)
   3. Yes, many (41-90%)
   4. Yes, all or nearly all
   5. No enemy <u>village guerrilla unit</u> exists for this village

7. What is the status of National Police presence in this village?

   0. None present
   1. Assigned, but only <u>occasionally</u> present day or night (less than 50% of the time)
   2. <u>Regularly</u> present during the day only (more than 50% of the time)
   3. <u>Regularly</u> present both day and night (more than 50% of the time)

8. Do the National Police circulate freely in the village while in uniform?

   0. No, no National Police assigned
   1. No
   2. Yes, but only in groups
   3. Yes, but only during the day
   4. Yes, both day and night

E. ADMINISTRATION

1. Is there an active <u>GVN Village Administrative Committee</u>?

   0. No
   1. Yes, but consists of village chief only
   2. Yes, but two or more positions are vacant
   3. Yes, one position vacant
   4. Yes, all positions are filled

2. Are the present members of the GVN <u>village council</u> elected to their posts by the people of this village?

   0. No, no active <u>village council</u> exists
   1. No, all <u>village council</u> members appointed
   2. Yes, a few are elected (less than 30%)
   3. Yes, some are elected (30-70%)
   4. Yes, many are elected (more than 70%)
   5. Yes, all elected

E. ADMINISTRATION (Cont.)

3. Is the present GVN village chief elected by the village council?

   0. No
   1. Yes

4. Is the GVN village chief regularly present in this village?

   0. No, except when accompanying an operation
   1. No, occasionally (less than 50% of the time)
   2. Yes, regularly, but only by day
   3. Yes, regularly, day and night

5. Is there a functioning GVN village office located in this village where official business is regularly conducted or where village administrative records are maintained?

   0. No
   1. Yes

6. Have GVN-sponsored projects in this village been adversely affected by corrupt local officials during the past quarter?

   0. No
   1. Yes, suspended
   2. Yes, positive knowledge (no corrective action)
   3. Yes, corrective action has been taken

7. Does the GVN collect taxes in this village?

   0. No
   1. No, tax amnesty granted
   2. Yes, but unsystematically
   3. Yes, systematically

8. Have the major village officials (the Village Chief, the Deputy for Security, and the Deputy for Administration) received training at Vung Tau training center?

   0. No, none have received official training
   1. Only the Village Chief is trained
   2. Only the Deputy for Security is trained
   3. Only the Deputy for Administration is trained
   4. Both the Deputy for Administration and Village Chief are trained
   5. Both the Deputy for Administration and Deputy for Security are trained
   6. Both the Deputy for Security and Village Chief are trained
   7. Yes, all three major village officials are trained

9. What portion of the legally established budget is supported by locally collected taxes?

   0. There is no legal budget
   1. None, or nearly none (less than 10%)
   2. Little (11-30%)
   3. Some (31-50%)
   4. Much (51-70%)
   5. Most (71-90%)
   6. All, or nearly all (more than 90%)

F. POLITICAL

1. How frequently does the village council convene open public meetings to discuss village development plans and projects, local grievances, aspirations, etc?

    0. Never
    1. Less than once a month
    2. Once a month on the average
    3. Twice a month or more

2. Is action taken by the village chief to investigate and correct local grievances and to satisfy local aspirations expressed at public meetings?

    0. No, no public meetings are convened
    1. No, meetings but no action
    2. Yes, occasional action (less than 50% of the time)
    3. Yes, regular action (more than 50% of the time)

3. Are any non-communist political parties organized and active in this village?

    0. No
    1. Yes, one
    2. Yes, two
    3. Yes, more than two

4. Are there any organized activities for the youth of this village (4T, boy scouts, sports, etc.)?

    0. No
    1. Yes

5. Do RD Cadre coordinate and cooperate with GVN village officials in the execution of their responsibilities?

    0. No, no RD Cadre
    1. No
    2. Yes, occasionally (less than 50% of the time)
    3. Yes, regularly (more than 50% of the time)

6. Does the village chief have operational control over RD Cadre personnel working in this village?

    0. No, no RD Cadre
    1. No, no control
    2. Yes, partial
    3. Yes, complete

7. Do the RD Cadre assigned to this village sleep in the village at night?

    0. No, no RD Cadre
    1. No, but RD Cadre are assigned
    2. Yes, occasionally (less than 50% of the time)
    3. Yes, regularly (more than 50% of the time)

B-27

G. INFORMATION/PSYOPS

1. Does the village office have a trained Information/Chieu Hoi Cadre assigned?

   0. No
   1. No, appointed but not yet trained
   2. Yes, but not resident full time in the village
   3. Yes, resident full time in the village

2. How often are village residents exposed to GVN movies, cultural drama team performances, etc. ?

   0. Never
   1. Infrequently (less than once a month)
   2. Sporadically (1-3 times a month)
   3. Periodically (once a week or more)
   4. Periodically, but solely thru TV rather than visits

3. How frequently do mobile GVN information cadre (such as VIS personnel, APT, S-5) visit this village?

   0. Never
   1. Infrequently (less than once a month)
   2. Sporadically (1-3 times a month)
   3. Periodically (1-3 times a week)
   4. Regularly (more than three times a week)

L. ECONOMIC ACTIVITY

1. Is a variety of foodstuffs other than rice and nuoc mam (such as pork, vegetables, fruit, fish, etc.) for sale at the local market(s)?

   0. No
   1. Yes, limited quantity
   2. Yes, ample quantities

2. Are manufactured goods such as bicycle tires, kerosene, and aluminum pots for sale at the local market(s)?

   0. No
   1. Yes, limited quantities
   2. Yes, ample quantities

3. Was there a surplus of goods or foodstuff produced in this village for sale outside of the village during the year?

   0. No
   1. Yes, but small
   2. Yes, large

4. Are current market prices for basic foodstuffs publicized daily and are price controls enforced?

   0. No, prices are neither publicized nor controlled
   1. No, prices are publicized but there is about a 10% inflation over the official price levels
   2. No, prices are publicized but there is a 11-50% inflation over the official price levels
   3. No, prices are publicized but there is a 51-100% inflation over the official price levels
   4. No, prices are publicized but there is more than a 100% inflation over the official price levels
   5. Yes, prices are publicized and controlled

L. ECONOMIC ACTIVITY (Cont.)

5. Is skills-training offered to village inhabitants? (Check the response which indicates who contributes the most training)

0. No
1. Yes, by employers such as small repair shops
2. Yes, by the GVN Ministry of Labor or the GVN Ministry of Education
3. Yes, under the auspices of some other GVN agency
4. Yes, by foreign agencies (U.S. military or others)

6. Is there a labor surplus in this village?

0. No
1. Yes, a limited surplus of unskilled workers, primarily seasonal
2. Yes, a limited surplus of skilled workers, primarily seasonal
3. Yes, a limited surplus of both skilled and unskilled workers, primarily seasonal
4. Yes, unemployment of unskilled workers is a problem
5. Yes, unemployment of skilled workers is a problem
6. Yes, unemployment of both skilled and unskilled workers is a problem

7. What best describes the selling market for surplus rice in this village?

0. There is no surplus rice
1. There is a limited surplus, but no demand
2. There is a limited surplus and good demand
3. There is an abundant surplus, but no demand
4. There is an abundant surplus and good demand
5. There is a surplus, but the farmers do not want to sell

8. Which best describes the selling market for surplus crops other than rice in this village?

0. There is no surplus
1. There is a limited surplus, but no demand
2. There is a limited surplus and good demand
3. There is an abundant surplus, but no demand
4. There is an abundant surplus and good demand
5. There is a surplus, but the farmers do not want to sell

N. DEVELOPMENT PROJECTS

1. Were any new self-development projects selected for this village during the year?

0. No
1. Yes, but none were selected at open public meetings
2. Yes, some were selected at open public meetings
3. Yes, all were selected at open public meetings

2. Have any self-development projects in this village been retarded because of absence of technical assistance from province or district level personnel during the year?

0. No such projects
1. No, no retardation
2. Yes, minor retardation
3. Yes, serious retardation
4. Yes, resulting in project abandonment

N. DEVELOPMENT PROJECTS (Cont.)

3. Have any self development projects in this village been retarded because of shortage of resources? (e.g., cement, roofing materials, fertilizer, seed, pumps, etc.)

   0. No such projects
   1. No, no retardation
   2. Yes, minor retardation
   3. Yes, serious retardation
   4. Yes, resulting in project abandonment

4. Were any needed village public works projects (e.g., roads, markets, wells, etc.) under construction in this village during the quarter?

   0. No
   1. Yes

5. Do GVN technical personnel visit this village in support of local development programs? (e.g., agriculture technicians, animal husbandry specialists, fisheries specialists, etc.)

   0. No
   1. Yes, but infrequently (less than once a month)
   2. Yes, sporadically (1-3 times a month)
   3. Yes, repeatedly (once a week or more)
   4. Yes, resident in village

P. PUBLIC HEALTH

1. Is a GVN-sponsored public health station (dispensary) accessible to residents of this village?

   0. No
   1. Yes, but further than an adjacent village
   2. Yes, in an adjacent village
   3. Yes, in the village

2. Is a GVN-sanctioned maternity clinic accessible to residents of this village?

   0. No
   1. Yes, but further than an adjacent village
   2. Yes, in an adjacent village
   3. Yes, in the village

3. Is a hospital (or private physician practicing western medicine) accessible to residents of this village?

   0. No
   1. Yes, but further than an adjacent village
   2. Yes, in an adjacent village
   3. Yes, in the village

4. Can western medicines, particularly the more common antibiotics, be obtained locally by village residents?

   0. No
   1. Yes, but very limited supply
   2. Yes, adequate supply

R. EDUCATION

1. Is a GVN sanctioned secondary school (grades 6-12) accessible? (may be public or private)

0. No
1. Yes, but further than an adjacent village
2. Yes, in an adjacent village
3. Yes, in this village

2. Do any of the children of village residents attend secondary schools?

0. No
1. Yes, a few (less than 5% of school-age children)
2. Yes, some (5-20%)
3. Yes, many (more than 20%)

3. Do any of the children of this village complete the five year primary education program?

0. No, none
1. Yes, a few (less than 10%)
2. Yes, some (10-40%)
3. Yes, many (41-90%)
4. Yes, all or nearly all

T. LAND TENURE

1. Do any of the farming households of this village hold land in tenancy to either private landowners or to the government?

0. No, none
1. Yes, a few (less than 10%)
2. Yes, some (10-40%)
3. Yes, many (41-90%)
4. Yes, all or nearly all

2. Are any of the farming households of this village owners of all or part of the land they farm?

0. No, none
1. Yes, a few (less than 10%)
2. Yes, some (10-40%)
3. Yes, many (41-90%)
4. Yes, all or nearly all

3. Are any of the farming households of this village considered to be squatters rather than owners or tenants of the land that they farm?

0. No, none
1. Yes, a few (less than 10%)
2. Yes, some (10-40%)
3. Yes, many (41-90%)
4. Yes, all or nearly all

4. Do any of the farming households of this village earn the largest part of their yearly income from employment on a daily hire or contract basis as opposed to income derived from land owner-ship or tenancy?

0. No, none
1. Yes, a few (less than 10%)
2. Yes, some (10-40%)
3. Yes, many (41-90%)
4. Yes, all or nearly all

T.   LAND TENURE (Cont.)

5.   Has a Village Land Distribution Committee been organized for this village?

    0.   No
    1.   Yes, but presently inactive
    2.   Yes, land reform actions are underway, but no land titles granted during past quarter
    3.   Yes, some land titles were granted during the past quarter

6.   Is there farm land which belongs to this village which is not presently cultivated?

    0.   No
    1.   Yes, primarily because of bad security
    2.   Yes, primarily for reasons other than security

7.   In this village, what percentage of the farmers have not received titles to their land?

    0.   All eligible farmers have received titles
    1.   Less than 10% have not received titles
    2.   More than 10% but less than 30% have not received titles
    3.   More than 30% but less than 60% have not received titles
    4.   60% or more have not received titles

8.   Have officials in the Province Land Affairs Service visited this village to assist in implementing the Land to the Tiller program during the quarter?

    0.   No
    1.   Yes, once
    2.   Yes, 2 to 4 times
    3.   Yes, more than 4 times

9.   In this village, were there any land disputes during the quarter as a result of the application of the Land to the Tiller law?

    0.   No disputes
    1.   Small disputes unworthy of attention
    2.   Disputes already settled by the village
    3.   Important disputes transmitted to higher levels for settlement
    4.   Disputes with bloodshed fights
    5.   Disputes where village Agriculture/Land Reform commissioners and/or village Land Service cadre were kidnapped and/or assassinated

10.   Which of the following best describes land reform implementation in the village?

    0.   There is no Village Land Registrar and no effort is being made to recruit one
    1.   There is a Village Land Registrar, but little is being done to implement land reform
    2.   There is a Village Land Registrar and some work to implement land reform has been accomplished
    3.   There is a Village Land Registrar and much has been done to implement land reform

B-32

V. AGRICULTURE

1. How much of the tillable land is planted with miracle rice?

   0. None
   1. None, out of season
   2. Less than 10%
   3. 10-30%
   4. 31-60%
   5. 61-90%
   6. More than 90%

2. How much of the tillable land is planted in minor crops (any crop except rice)?

   0. None
   1. None, out of season
   2. Less than 10%
   3. 10-30%
   4. 31-60%
   5. 61-90%
   6. More than 90%

3. How many families received cash loans through the Agricultural Credit Program?

   0. None
   1. Less than 10%
   2. 10-30%
   3. 31-60%
   4. 61-90%
   5. More than 90%

4. Were there any livestock losses due to diseases?

   0. No
   1. No, adequate preventive measures taken
   2. Yes, minor losses (less than 10%)
   3. Yes, moderate losses (11-30%)
   4. Yes, heavy losses (more than 30%)

5. Were crops damaged by insects and/or diseases?

   0. No
   1. No, adequate preventive measures taken
   2. Yes, minor losses (less than 10%)
   3. Yes, moderate losses (10-30%)
   4. Yes, heavy losses (more than 30%)

6. Is there an adequate number of tractors?

   0. No, none needed
   1. No, no capability to purchase any
   2. No, no purchases planned
   3. No, but a few were bought (1-3) during the quarter
   4. Yes

7. Is there an adequate irrigation system in the village?

   0. No, none needed
   1. No, but one is needed
   2. No, but one is under construction
   3. Yes, but requires repair
   4. Yes

8. Which of these supplies - fertilizers, insecticides, seed or tools - have been inadequate and are most needed?

   0. None
   1. Fertilizers
   2. Insecticides
   3. Fertilizers and insecticides
   4. Seed
   5. Tools
   6. All of these

B-33

V. AGRICULTURE (Cont.)

9. Did the rural organizations
(Agricultural Extension, 4T,
Home Economics, Animal Health
Service, Farmers' Organization,
cooperatives, To Hop) work actively
in the village during the past quarter?

   0. Yes
   1. Some activities, but ineffective
   2. No, no activities due to poor
       security
   3. No, no organizations exist

10. Did the Agriculture or RD Cadre in
charge of Argiculture, Fisheries and
Animal Husbandry regularly come to
the village to visit farm families and
give them technical guidance during
the quarter?

   0. No
   1. Yes, but less than once a month
   2. Yes, about once a month
   3. Yes, 2 or 3 times a month
   4. Yes, 4 or more times a month

Z. BACKGROUND

1. What is the main land route leading
from this village to nearby communities?

   0. No land access
   1. Cart track, trail, or foot-path
   2. Seasonal road - poor condition
   3. Seasonal road - good condition
   4. Year-round road - poor condition
   5. Year-round road - good condition

2. What is the main waterway leading
from this village to nearby communities?

   0. No waterway access
   1. Seasonal waterway - poor condition
   2. Seasonal waterway - good condition
   3. Year-round waterway - poor condition
   4. Year-round waterway - good condition

3. Do the local sources provide
sufficient water for the household
needs of this village?

   0. No
   1. Yes, adequate seasonally
   2. Yes, adequate year-round

APPENDIX C

HES SCORING TECHNIQUES[*]

HES SCORING TECHNIQUES

Following update of the HES Basic Master File, a scoring program is executed to compute hamlet/village ratings for each of the 30 HES models based upon the detailed information reported to the system. The purpose of this appendix is to describe the statistical technique, or scoring algorithm, used in computing these ratings. This algorithm is an application of Bayes Theorem from the theory of statistical inference. Simply stated, the algorithm starts from a basic hypothesis of no known information about the hamlet and successively incorporates weights associated with the response to each of the questions that comprise each individual model.

Before going into more detail about the algorithm, it is appropriate to discuss the more general aspects of the rating system. For each of the 30 models there are six basic alphabetic ratings. Five of the six ratings form a progressive scale from worst to best. An 'E' rating represents the worst situation, an 'A' rating represents the best situation, with 'D', 'C', and 'B' ratings representing intermediate levels. An 'N' rating is assigned if it is determined that there is insufficient information to evaluate the hamlet (i. e., N = non-evaluated). For the Level 5 HES Rating model there is an additional rating (V) assigned if the hamlet is considered under enemy control. A "best" situation (A) is considered best with respect to the Government of Vietnam (GVN) whether it be Law Enforcement or Enemy Military Activity. For example, an 'A' rating in the latter would indicate the absence of enemy military activity during the month. Descriptions of HES model ratings are contained in the HES User's Guide. The definitions given therein are conditions that would normally be found in a hamlet with the given rating (e. g., an A hamlet in the HES Rating (Level 5 model) meets ten conditions, one of which is "No armed enemy military forces present in inhabited areas.") Only the five A through E ratings are determined using the Bayesian Algorithm. The others (N and V) are assigned based upon the results of conditional tests.

There are three major components of the Bayesian scoring algorithm: prior probabilities, conditional probabilities, and posterior probabilities (modified prior probabilities). For each of the A-E ratings a prior probability is assigned representing whatever information is known at the time. Since in this application no information is known prior to scoring, each rating receives a probability of 20 percent - or an equal chance with any of the other ratings of being chosen. (The initial assumption is that no rating is more likely than any other.) The conditional probabilities associated with each level 1 question are the weights. For each response to each question they represent the likelihood that the situation defined by the question/response combination would occur in an A, B, C, D, or E hamlet. These weights were determined from estimates supplied by a large number of field and staff personnel averaging over two years of in-country experience in Vietnam with pacification expertise at all levels of RVN pacification. These judgements were contributed for those topic groups within their areas of responsibility. They were defined at the beginning of the system operation and will remain constant. Final scoring criteria were defined by averaging the estimates given by field personnel whose responses passed criteria established to check for internal consistency and basic understanding of the task. The posterior probabilities reflect the results of successively incorporating the weights associated with each question response. Bayes Theorem is used to successively integrate the weights associated with the responses to each of the component questions in order to establish the final grade to be assigned a particular hamlet for a given model.

As HES question responses are processed, the scoring technique is applied. An example may serve to illustrate this concept. Figure C-1 shows four of the questions utilized in the model for Friendly Military Presence. Figure C-2 shows the first question and its responses along with the numbers representing the judgements of field and staff personnel on the relationship of the five possible ratings to the four responses. These are the conditional probabilities for this question. Interpretively, column A, which represents the best situation with respect to

```
                        Friendly Military Presence


Step 1        Initial assumption:                        A=B=C=D=E

Step 2        Question 1:  Friendly ground night          C    vs.  2D
              reaction time more than four hours

Step 3        Question 2:  Less than 40% of households    C    vs.  D
              subject to enemy cadre at night

Step 4        Question 3:  GVN officials able to freely   2C   vs.  D
              move about during day

Step 5        Question 4:  Friendly local forces conduct  10C  vs.  D
              daytime security operations

Step 6        Final rating for Friendly Military          C
              Presence
```

Figure C-1

LEVEL 1 MODEL COMPUTATION

```
                        Friendly Military Presence

Question:     During the hours of darkness, what is the probable reaction
              time of the nearest friendly ground reaction force, if called
              on by local security forces?

                                           A    B    C    D    E

              1.  No reaction support available   0    0    10   40   75

              2.  More than four hours            5    10   15   30   15

              3.  Two to four hours               20   25   25   20   10

              4.  Less than two hours             75   65   50   10   0
```

Figure C-2

CONDITIONAL PROBABILITIES

C-3

Friendly Military Presence, indicates response 4 to be the most likely; response 3 to be possible, but unlikely; and response 1 to be impossible in an A hamlet. Similarly, the column labeled E, which represents the worst situation for this model, shows a reversed pattern. Response 1 is highly likely; responses 2 and 3 are both highly unlikely; and response 4 will never apply. Examining the probabilities more closely for response 2 shows the D rating is most likely. It is two times more likely than C or E and three times more likely than a B rating. Incorporating this piece of information with the initial hypothesis of equal probabilities indicates that a D rating is two times more likely than a C.

The second question in Figure C-1 reports less than 40% of the hamlet households are subject to contact at night by enemy cadre, such as tax collectors and recruiters. Conditional probabilities associated with this question indicate the condition is most likely in a C hamlet, thereby reducing the likelihood of a D rating. The third question further modifies the estimate of the hamlet in the C direction. Finally, incorporating the fourth question increases the likelihood that this hamlet is rated C. The resulting distributions following each iteration are the posterior probabilities. They are at the same time the prior probabilities for the next successive iteration. The final iteration, of course, produces the posterior probabilities from which the rating is determined.

Although the example above is very simplified, it implies that the rating category corresponding with the largest probability is selected. In other words, the mode of the distribution is chosen. In actual system processing, however, the expected value of the distribution is computed and then converted to an alphabetic rating. The table below shows the numerical equivalents for the five ratings and their range values. If the mean were computed as 3.24, for example, a C rating would be assigned.

Rating	Numerical Equivalent	Range
A	5	5.00-4.50
B	4	4.49-3.50
C	3	3.49-2.50
D	2	2.49-1.50
E	1	1.49-1.00

This, then, is the scoring algorithm for the Level 1 models. In order to arrive at ratings for the Level 2, 3, 4, and 5 models, a decision table is used. For all combinations of ratings, tables are given for aggregating the lower level ratings to the next higher level rating. Thus, if Public Health were rated B, Education rated C, and Social Welfare rated C, the resulting Social Programs rating would be C.

In the case of the Level 5 HES Rating model, the Security model rating is the predominant factor. Only if the Community Development rating is significantly higher or lower than the Security rating will it be permitted to influence the HES Rating. Examples of the standard reference tables and aggregation of scores are shown in Figure C-3.

LEVEL 1 / LEVEL 2

Friendly Military Presence	Friendly Military Activity	PSDF Activity		Friendly Military
A	A	A	=	A
A	A	B	=	A
.	.	.		.
.	.	.		.
C	A	B	=	B
.	.	.		.
.	.	.		.
E	E	E	=	E

LEVEL 2 / LEVEL 3

Friendly Military	Enemy Military	Impact of Military Activity		Military
A	A	A	=	A
A	A	A	=	A
.	.	.		.
.	.	.		.
B	C	C	=	C
.	.	.		.
.	.	.		.
E	E	E	=	E

LEVEL 3 / LEVEL 4

Military	Political		Security
A	A	=	A
A	A	=	A
.	.		.
.	.		.
C	C	=	C
.	.		.
.	.		.
E	E	=	E

LEVEL 4 / LEVEL 3 / LEVEL 5

Security	Community Development		HES Rating
A	A	=	A
A	A	=	A
.	.		.
.	.		.
B	C	=	B
.	.		.
.	.		.
E	E	=	E

Figure C-3

EXAMPLE OF AGGREGATION OF SCORES

C-5

The non-evaluated (N) rating is assigned based upon two conditional tests. The first is if an insufficient number of responses were given within each model (insufficient information reported to evaluate the hamlet). This rating may also be assigned if the final posterior distribution does not vary significantly from a uniform (equally likely) distribution, using a chi-square test for significance. For the Level 5 HES Rating model only, a rating of V is assigned if the hamlet is considered under enemy (Viet Cong) control. (Although a hamlet may be rated V in the HES Rating, the lower level models will be rated A, B, C, D, E, or N.) The response given to the first question in Hamlet Monthly topic group B (HMB1), "Do enemy forces physically control this hamlet?", determines whether a V is assigned or not.

The five-point rating scale used in HES is not rigid and can be expanded as deemed necessary. The important feature of the rating methodology is that the concept of successively incorporating pieces of information to determine the most likely rating can readily be adapted to new situations. Level 1 scores, based upon individually tailored questions, provide the most precise measures of specific pacification programs. The higher level ratings (2 and 3) provide measurement of the broader areas of military, political, and community development conditions within the hamlets. The Level 4 Security model provides a measurement of the level of security provided in each hamlet considering both military and political or VC activities. Finally, the Level 5 HES Rating provides an overall indication of the status of each hamlet with respect to the Pacification efforts. It is important to remember that the measurements provided by HES are relative, and should never be considered as absolute indicators. They are, however, the best measure of pacification development to date.

C-6

APPENDIX D

DATA BASE ELEMENTS

DATA BASE ELEMENTS

The fundamental component of HES is a data base consisting of the 165 multiple-choice, uni-dimensional questions in the HES Question-Set (see Appendix B). In addition to the responses to the HES questions, the data base also contains descriptive information about each geopolitical division (i.e., hamlet, village, district) in the country. Such items as name, location (map coordinates), population, and, in the case of geopolitical levels above hamlet, the number of subordinate geopolitical areas (i.e., hamlets within the village, or hamlets and villages within the district) are included.

D-2

SYNOPSIS OF HES DATA BASE ELEMENTS

<u>Model Rating</u>. A one-character code for each model giving the model rating according to the category designators A, B, C, D, E, N.

<u>Level 5 Model Rating</u>.

HES Rating - derived predominantly from the Security model rating, the Community Development model rating affects the HES Rating only if it is significantly higher or lower than the Security rating.

<u>Level 4 Model Rating</u>.

Security - derived from the Military and Political model ratings.

<u>Level 3 Model Rating</u>.

Military - derived from the Enemy Military, Friendly Military, and Impact of Military Activity model ratings.

Political - derived from the Enemy Political and Friendly Political model ratings.

Community Development - derived from the Friendly Political, Political Programs, and Social Programs model ratings.

<u>Level 2 Model Rating</u>.

Enemy Military - derived from the Enemy Military Presence and Enemy Military Activity model ratings.

Friendly Military - derived from the Friendly Military Presence, Friendly Military Activity, and PSDF Activity model ratings.

Enemy Political - derived from the Enemy Political Presence and Enemy Political Activity model ratings.

Friendly Political - derived from the Administration, Law Enforcement, and Political Mobilization model ratings.

Political Programs - derived from the Development Assistance, Land Tenure, PSDF Activity, Information/PSYOPS, and RD Cadre model ratings.

Social Programs - derived from the Public Health, Education, and Social Welfare model ratings.

<u>Level 1 Model Rating</u>.

Enemy Military Presence - derived from questions concerning nearby enemy military forces, base areas, staging areas, supply caches, defensive works, etc.

Enemy Military Activity - derived from questions concerning the frequency and seriousness of enemy military activity directed against friendly security forces and/or impacting on the local inhabitants.

D-3

Impact of Military Activity - derived from questions concerning civilian casualties, property damage, creation of refugees, troop misconduct and general constraints due to lack of adequate security.

Friendly Military Presence - derived from questions concerning effectiveness of local security force operations, adequacy of communication and warning systems, and availability of rapid support from external forces when needed.

Friendly Military Activity - derived from questions concerning the frequency and intensity of friendly initiated military activity and its impact on the local inhabitants.

Law Enforcement - derived from questions concerning the presence of National Police, and degree of law and order maintained by local security forces.

PSDF Activity - derived from questions concerning organization and training of PSDF, arming of PSDF, local participation in PSDF, and unit effectiveness.

Enemy Political Presence - derived from questions concerning presence and degree of legitimacy of the VCI, enemy taxation, and support given to the enemy by residents.

Enemy Political Activity - derived from questions concerning the frequency and seriousness of enemy terrorist and propaganda activites directed toward local residents and the GVN political apparatus.

Administration - derived from questions concerning the presence or absence of GVN officials.

RD Cadre - derived from questions concerning RD Cadre presence, popular participation in RD activities, and favorable impact on local administration.

Information/PSYOPS - derived from questions concerning local contact with the GVN message as delivered by varied media.

Political Mobilization - derived from questions concerning local participation in enemy and/or friendly organizations or activities.

Public Health - derived from questions concerning the accessibility and quality of GVN-sanctioned public health services.

Education - derived from questions concerning accessibility and utilization of existing educational resources at the hamlet and village level.

Social Welfare - derived from questions concerning welfare needs in relation to welfare activities.

Development Assistance - derived from questions concerning GVN-sponsored development assistance activity (economic improvement programs, public works projects, self-development projects, etc.), and local participation in and acceptance of such assistance.

Economic Activity - derived from questions concerning commercial activity, ownership of private property, and access to motorized transportation.

Land Tenure - derived from questions concerning local ownership of land, land cultivation, and presence and activity of Land Reform Committees.

Rating Category. This field is a one-character alphabetic code. The codes are related to a computed numerical score according to the following criteria:

    A - 5.00 to 4.50 (Best)
    B - 4.49 to 3.50 (Good)
    C - 3.49 to 2.50 (Acceptable)
    D - 2.49 to 1.50 (Marginal)
    E - 1.49 to 1.00 (Worst)

    N - Not Evaluated ratings are assigned to Level 2, 3, 4 models by decision table.

In addition, N (Not Evaluated) ratings are assigned to any Level 1 model if:

    (1) Minimum number of questions were not answered, or

    (2) $\sum_{i=A}^{E} [P(i) - 0.2]^2 \leq 0.02$ where P(i) is the final posterior probability for rating level i, where i is summed over categories A, B, C, D, and E.

    V - VC Controlled ratings are assigned to HES Rating model only if question HMB1 has response 1 or 2.

    X - Abandoned rating is assigned and no score is computed for hamlets with zero population.

Hamlet Ratings. Ratings in the above categories are computed for hamlets from responses to questions in each Level 1 model.

Non-Hamlet Population Ratings. Ratings in the above categories are computed for non-hamlet population from responses to village only questions in each Level 1 model.

Village Ratings. Ratings in the above categories are computed for villages as the population-weighted sums of the hamlet scores, and non-hamlet population scores.

District Ratings. Ratings in the above categories are computed for districts as the population-weighted sums of the hamlet scores, and non-hamlet population scores.

Province Ratings. Ratings in the above categories are computed for provinces as the population-weighted sums of the hamlet scores, and non-hamlet population scores.

MR Ratings. Ratings in the above categories are computed for MRs as the population-weighted sums of the hamlet scores, and non-hamlet population scores.

RVN Ratings. Ratings in the above categories are computed for RVN as the population-weighted sums of the hamlet scores, and non-hamlet population scores.

Topic Groups. Sets of HES questions are organized by topic, with a maximum of 10 questions per group; 34 groups comprise the total set of HES questions. (Two groups, Hamlet Monthly MZ and Village Monthly MZ, consist of questions asked on a one-time only basis; these appear printed on the HES Update Form and are not included in the HES Question-Set in the HES Handbook distributed to the field.)

Hamlet Monthly.

    MA - General
    MB - Enemy Activities
    MC - Friendly Activities
    MD - Military Impact
    MZ - One-Time Questions

Hamlet Quarterly.

    A - General
    B - Enemy Presence
    C - Friendly Security
    D - Law Enforcement
    E - Administration
    F - Political
    G - Information/PSYOPS
    L - Economic Activity
    N - Development Projects
    P - Public Health
    R - Education
    S - Social Welfare
    Z - Background

Village Monthly.

    MB - Enemy Activities
    MC - Friendly Activities
    MZ - One-Time Questions

Village Quarterly.

    B - Enemy Presence
    C - Friendly Security
    D - Law Enforcement
    E - Administration
    F - Political
    G - Information/PSYOPS
    L - Economic Activity
    N - Development Projects
    P - Public Health
    R - Education
    T - Land Tenure
    V - Agriculture
    Z - Background

<u>Population.</u>

Hamlet: Population of a hamlet in the HES data base; carried in three categories:

1.   Total - the sum of permanent and temporary hamlet population.

2.   Temporary - population that has recently moved into the hamlet (most likely for security reasons) and will probably move out when conditions warrant (i.e., refugees).

3.   Permanent - population whose normal place of residence is in the hamlet.

Village: Population of a village in the HES data base; carried in five categories:

1.   Total - the sum of non-hamlet and hamlet population.

2.   Non-hamlet - population not included in hamlet population.

3.   Hamlet - the sum of total population for all hamlets in the village.

4.   Temporary hamlet - the sum of temporary population for all hamlets in the village.

5.   Permanent hamlet - the sum of permanent population for all hamlets in the village.

District: Same as village population except sums carried to district level for all five categories.

Province: Same as district population except sums carried to province level for all five categories.

MR: Same as province population except sums carried to Military Region level for all five categories.

RVN: Same as MR population except sums carried to RVN level for all five categories.

<u>Identification.</u>

Name. Left—justified 20 character name for hamlet, village, district and province.

UTM Coordinates. 8-character field consisting of 2-character alpha grid square identification, 3-digit abscissa in tenths of kilometers, and 3-digit ordinate in tenths of kilometers. Identifies geographic location of hamlet.

GVN Serial Number. A 3-digit numeric field, unique by provinces, for each hamlet recognized by the GVN.

Administrative ID. A 9-digit numeric field containing the USID of the administrative unit. Hamlet level codes are:

    CPP000000 = Abandoned
    CPPDD000 = Not censused
    CPPDDVV00 = Admin ID

Village level codes are:

    CCPPDDVVHH = USID of the village administrative center

Flags. Nine hamlet level and eight village level 1-digit numbers specifying certain characteristics applicable to selected hamlets and villages as follows:

Hamlet Flags Position	Description

1	Urban/Rural Hamlet set from response to HQ Z1
	Value $\emptyset$ = Rural Hamlet
	    1 = Urban Hamlet
	    8 = Not Applicable
	    9 = Unknown/Unable to Judge

2	District Capital Hamlet set from the Saigon Card Value 1 = District Capital Hamlet 9 = Not District Capital Hamlet
3	Province Capital Hamlet set from the Saigon Card Value 1 = Province Capital Hamlet 9 = Not Province Capital Hamlet
4	Not Used

5	Village Administrative Center set from Response to HQ Z6
	Value $\emptyset$ = Not the Village Administrative Center
	    1 = Village Administrative Center
	    8 = Not Applicable
	    9 = Unknown/Unable to Judge

6	Not Used
7	Not Used

8	Refugee Camp set from the Saigon Card
	Value $\emptyset$ = Non Normalized Camp
	    1 = Normalized Camp
	    2 = Non Norm/Norm Camp
	    9 = Not a Refugee Camp

9	RTV Hamlet (Return to Village Hamlet) set from the Saigon Card Value $\emptyset$ = Return to Village Hamlet 9 = Not a Return to Village Hamlet

Village Flags Position	Description
1	Urban/Rural Village System Sets Flag Depending on the Distribution of Hamlet Urban and Rural Population Value $\emptyset$ = Rural Village (more than 50% of population is Rural) 1 = Urban Village (more than 50% of population is Urban) 9 = Neither Urban or Rural Village
2	Revolutionary Committee Village set from the Saigon Card Value 1 = Elected 2 = Appointed 9 = Not a Revolutionary Committee Village
3	District Capital Village set from the Saigon Card Value 1 = District Capital Village 9 = Not District Capital Village
4	Province Capital Village set from the Saigon Card Value 1 = Province Capital Village 9 = Not Province Capital Village
5 thru 8	Not Used

Activity Code. A 1-digit number indicating whether the hamlet, village, district, province, region, or country records are active (0) or inactive (1).

Category. A 1-digit alphabetic field indicating the status of each geopolitical level. This field will either contain the HES Rating model rating (A, B, C, D, E, V, N) or * if deleted or X if abandoned.

Unit Sums.

Village.

Hamlets - total number of hamlets in the village.

District.

Hamlets - total number of hamlets in the district.
Villages - total number of villages in the district.
VNHP - total number of villages reporting non-hamlet population.

Province.

Hamlets - total hamlets in the province.
Villages - total villages in the province.
VNHP - total villages with non-hamlet population in the province.
Districts - total districts in the province.

Military Region.

Hamlets - total hamlets in the region.
Villages - total villages in the region.
VNHP - total villages with non-hamlet population in the region.
Districts - total districts in the region.
Provinces - total provinces in the region.

RVN.

Hamlets - total hamlets in RVN.
Villages - total villages in RVN.
VNHP - total villages with non-hamlet population in RVN.
Districts - total districts in RVN.
Provinces - total provinces in RVN.
Military Regions - total regions in RVN.

Village Administrative Center.

Name - left-justified 20-character name of village administrative center.
USID - two-digit hamlet ID of village administrative center.
UTM - coordinates of hamlet that is village administrative center.

Capitals.

District.

Name - left-justified 20-character name of district capital.
USID - full 9-digit USID number of district capital.
UTM - coordinates of district capital. Will normally reflect center of population.

Province.

Name - left-justified 20-character name of province capital.
USID - 9-digit USID number of the hamlet in which the province capital is located.
UTM - coordinates of province capital. Will normally reflect center of population.

Non-Hamlet Population. (See Population, Village.)

Explanation. Left-justified 40-character statement explaining why population is not included in hamlet population.

District Senior Advisor.

Current.

Rank/Name. Left-justified 20-character rank and name of current DSA.

DEROS. Date of departure from current assignment; given as day (2-digit numeric), month (3 alpha characters), and year (2-digit numeric).

D-10

<u>Province Senior Advisor</u>.

    Current.

        Rank/Name. Left-justified 20-character rank and name of the current PSA.

        DEROS. Date of departure from current assignment; given as day (2-digit numeric), month (3 alpha characters), and year (2-digit numeric).

<u>Population/Unit Changes</u>.

    Village.

        Additions. Number of hamlets and hamlet population added to village.

        Deletions. Number of hamlets and hamlet population deleted from village.

    District.

        Additions. Number of hamlets, villages, hamlet population and village population added to district.

        Deletions. Number of hamlets, villages, hamlet population and village population deleted from district.

    Province.

        Additions. Same as district additions plus number of districts and district population added to province.

        Deletions. Same as district deletions plus number of districts and district population deleted from province.

    Military Regions.

        Additions. Province level changes plus number of provinces and province population added to region.

        Deletions. Province level changes plus number of provinces and province population deleted from region.

    RVN.

        Additions. Number of hamlets, villages, districts, provinces, and regions and respective populations added to RVN.

        Deletions. Number of hamlets, villages, districts, provinces, and regions and respective populations deleted from RVN.

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Civil Operations and Rural Development Support (CORDS), Research and Analysis Directorate, *Hamlet Evaluation System (HES) Operations Manual*, Document No. DAR R70 OM-01A, Military Assistance Command Vietnam, June 1972.

Part of the technical documentation for the electronic records series Hamlet Evaluation System (HES) in Records of the U.S. Forces in Southeast Asia (RG 472) (NN3-349-81-001; NAID 18556191).

CIVIL OPERATIONS AND RURAL DEVELOPMENT SUPPORT
RESEARCH AND ANALYSIS

June 1972

HAMLET EVALUATION SYSTEM (HES)

M
Document Number
DAR R70
OM-01A
Operations Manual

MILITARY

ASSISTANCE

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EACH TRANSMITTAL OF THIS DOCUMENT OUTSIDE THE
AGENCIES OF THE UNITED STATES GOVERNMENT MUST
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REQUEST FOR DATA PROCESSING SUPPORT
(CSR 18-3)

DATE	REPORTS CONTROL SYMBOL
29 Apr 75	
REQUEST NUMBER	**PRIORITY**
CK-0007-75	

TO:	FROM:	TYPE OF ACTION
DACS-AMZ-A	DAAG-COM-I	[ ] NEW SYSTEM
	Wash DC	[ ] REVISION
	GE 119 Forrestal Bldg	[X] PRODUCTION

TITLE OF REPORT OR SYSTEM

Hamlet Evaluation System (HES)

AUTHORIZING DOCUMENT

CSR 18-4

PURPOSE OF REQUEST

To Secure Printouts of HES for Use in Answering FOIA Inquires

FREQUENCY

[ ] RECURRING (Indicate frequency)_____ [X] ONE TIME

SECURITY DESIGNATION

~~CONFIDENTIAL~~

INPUT DESCRIPTION (Such as source, format, date input will be available for processing, approximate volume)
(Continue on separate sheet of paper if necessary)

As shown by inclosed documentation. Input includes following tape reels: 3262 4203, 4176, 4181, 4160 all classified confidential.

3262 T141
4203 T131
4176 T081
4181 T111
4160 T121

SYSTEMS DESCRIPTION (Such as internal computations, special instructions) (Continue on separate sheet of paper if necessary)

As described by inclosed documentation.

OUTPUT DESCRIPTION (Such as addressee, type paper, number of copies, due out date)
(Continue on separate sheet of paper if necessary)

PROPOSED COMPLETION DATE

Request output in two phases:

I. Sample dump of tapes in report format for purposes of determining type of data and possibility of declassifying. One-part, standard paper.

II. Complete listing of data tapes in report format (xerox reduced) to one copy 8½ x 11.

REQUESTING AUTHORITY	REQUESTING AGENCY DATA AUTOMATION COORDINATOR
TYPED NAME, RANK/GRADE, TITLE & TELEPHONE NO./EXT.	TYPED NAME, RANK/GRADE, TITLE & TELEPHONE NO./EXT.
WILLIAM J. CHANTELAU	
MAJ, AGC	
ADP, Plans & Opns Off, TAGCEN 30878	SIGNATURE
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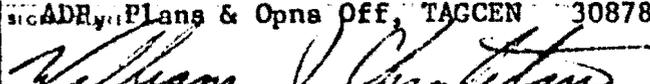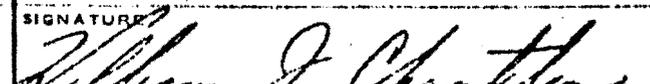
HEADQUARTERS
MILITARY ASSISTANCE COMMAND, VIETNAM.

HAMLET EVALUATION SYSTEM (HES)

June 1972

MACV Document No.
DAR R70
OM-01A
Operations Manual

Prepared for
Office of the Associate Director for Research and Analysis
Office of the Director
Civil Operations and Rural Development Support

EACH TRANSMITTAL OF THIS DOCUMENT OUTSIDE THE AGENCIES
OF THE UNITED STATES GOVERNMENT MUST HAVE THE PRIOR
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ACKNOWLEDGEMENT

CONTENTS

CONTENTS (Cont'd)

LIST OF ILLUSTRATIONS

LIST OF ILLUSTRATIONS (Cont'd)

LIST OF ILLUSTRATIONS (Cont'd)

LIST OF ILLUSTRATIONS (Cont'd)

x

HAMLET EVALUATION SYSTEM (HES)

OPERATIONS MANUAL

1 PURPOSE

The purpose of the Operations Manual is to establish the procedures to be followed by the Data Management Agency (DMA) Computer Operations Division to successfully initiate, process, and terminate the operations of the Hamlet Evaluation System (HES).

A glossary of mnemonics, abbreviations, and special terms used in this manual appears in appendix A.

2 SYSTEM CONTROL

This section includes discussions on the application, operation, configuration, performance and organization of the Hamlet Evaluation System (HES). A description of the data base and a detailed description of the system's inputs, processing, and outputs are also included. HES information flow is illustrated in figure 2-1.

2. 1 System Application. HES provides an automated means of collecting and reporting information describing the status of pacification at the hamlet and village level throughout the Republic of Vietnam (RVN). The system produces information based on data describing the physical environment of each hamlet and village and the effects achieved by the pacification program as applied to these areas.

HES was designed specifically as a means of evaluating the effects of insurgency upon the people of Vietnam; essentially, the system permits a set of questions to be asked about the people and their environment, and then evaluations to be derived from the responses. HES provides information in three functional areas encompassing pacification -- military, political, and community development -- from a set of multiple-choice questions. (Appendix B in the HES Command Manual contains the HES question set.) Answers to these questions are submitted monthly and quarterly by U.S. and Vietnamese District Senior Advisors (DSAs) through channels to MACCORDS, where the data is processed. HES may be considered an approach to pacification measurement, since the system computes ratings for hamlets and villages using a mathematical technique (Bayes Theorem) based on the theory of statistical inference. The manner in which each hamlet's overall HES rating is determined

1

Figure 2-1

HES INFORMATION FLOWCHART

2

(from A, the most secure, through E, the least; N (non-evaluated); or V (under Viet Cong control)) is described in appendix C of the HES Command Manual.

System reports displaying information for both computed ratings and responses to the HES question set are generated for use by those commands and agencies involved in the management and/or analysis of pacification program resources and their employment.

2.2 System Objectives. HES is designed to meet the following objectives:

(a) Monitor the progress of the pacification effort in hamlets and villages throughout RVN

(b) Provide an automated capability for analyzing trends in various aspects of projects within the pacification program

(c) Provide a variety of automated summary and analytical reports that reflect military, political, and community development aspects of the pacification program

(d) Provide a geopolitical profile of RVN with data retrievable at any component geopolitical level (hamlet, village, district, province, military region)

(e) Provide for computer plotting of conditions pertinent to the pacification program and its related projects.

Another significant feature of the system is its interface with other, more specialized pacification systems. HES provides much of the basic data for other systems. It provides the primary identification numbers for all geopolitical levels as well as the geographic coordinates. It also serves as a check on the data from systems that deal in more detail with certain aspects of pacification.

2.3 System Development. HES was designed as an evolutionary and flexible system. Recognizing that counterinsurgency warfare is dynamic and everchanging, and that the pacification activities within Vietnam are continually changing as emphasis switches from military to political to economic development activities, it was expected that

3

the HES question set and system models would undergo modification to reflect pacification as accurately as possible. Other anticipated modifications to HES include the development of bilingual English/Vietnamese reports and additional refinements to ensure maximum system responsiveness and data reliability.

2.4   System Operation. HES is often referred to as a "computer-assisted" system because the computer is only one of many tools used by the system. HES operates on a monthly production cycle, with many parts of that cycle consisting of manual operations.

Data arrives in Saigon on about the 5th of each month from the provinces, districts, and autonomous cities covered by HES. This data permits processing of changes and preparation of updated printouts for return to the field on a workable monthly cycle. Figure 2-1 illustrates these operations in the cycle, showing the flow of HES data required by the system through the organizations responsible for the preparation and processing of the data.

2.5   System Configuration. HES is processed by DMA on an IBM 360/50 computer. Supporting equipment includes standard card punch and card verifier equipment, interpreter, and a card sorter. Online equipment includes a card reader/punch, disk units, tape drives, and a line printer. A CALCOMP plotter is used to produce HES hamlet maps and population density maps, and the geoplot module of the data presentation system (DPS) is used to produce special plots.

2.6   Performance. Because of the period of time required for processing data, HES consists of a data review step, a keypunch/verify step and a set of separate programs rather than a collection of subroutines and linkage programs. Programs are executed sequentially as the steps in the monthly cycle occur. The system comprises over 50 computer programs whose functions include source data editing, data base maintenance, new source documents (update forms) generation, and HES reports generation. Requirements for data aggregation and/or display (reports or plots) are met by combinations of existing programs or by creation of new programs as required. A detailed description of each step in the production cycle is given in section 3.

2.7   System Organization. HES consists essentially of three subsystems: the HES analysis subsystem, HES master subsystem, and HES output subsystem, as described below:

4

(a) HES analysis subsystem - This portion of the system consists of computer programs that function to produce the HES update forms (which serve as input to the next month's cycle) and listings and reports used by MACCORDS-RAD/A analysts for scoring for statistical purposes.

(b) HES master file subsystem - This subsystem consists of computer programs that edit, update, and audit the HES basic master file, detect and rectify anomalies in the scored base data masters, and perform scoring of the current month's responses.

(c) HES output subsystem - This subsystem consists of computer programs that function to produce the management and summary reports output by HES. Also included are programs that select desired data and produce a tape for production of hamlet maps, density maps, and special plots.

2.8   Data Base. The HES data base contains all information collected from the DSAs responses on the update forms since the inception of the system in January 1970, as well as unofficial data accumulated since July 1969. A detailed description of the file and data elements is provided under separate cover (HES Master File Description and Synopsis).

3   SYSTEM OPERATION (PRODUCTION CYCLE)

Operation of the HES system is described in the following paragraphs.

3.1   Data Sources. HES data originates at the hamlet and village level with information gathered throughout the month from various sources by the district senior advisors (DSAs). The DSA is tasked with the responsibility of reporting monthly on all villages and hamlets in his district except for those hamlets that are designated as abandoned. The DSA is required to answer military related questions for each village and military/political questions for each hamlet every month. If special "one-time" questions are provided, he must also answer these. General descriptive data (hamlet/village name, UTM coordinates, and population data) is also updated monthly. Additional hamlet/village level questions covering all areas of pacification are required to be answered each quarter. To answer these questions, the DSA,

5

in conjunction with the GVN District-Chief, visits the hamlets and villages within his district. For numerous reasons, a DSA may be unable to personally obtain all necessary information for each hamlet and village every month, and therefore must rely to some extent on field sources of information. Although most information comes from the DSA's personal visits, other sources include interviews with rural development cadre and Hoi Chanhs, district and village chiefs, and GVN civilian and military field personnel who oversee various economic and security programs in the hamlets. In addition, the DSA obtains information from U.S. and Free World Military Assistance Forces (FWMAF) and civilian field personnel such as USAID advisors.

The DSA collects monthly data from approximately the 3rd to the 23rd of each month, entering the HES question responses on his HES hamlet and village ledger cards in preparation for ultimate submission of the data to MACCORDS-RAD.

3.2   Source Document Completion and Submission. The DSA receives computer-printed HES update forms near the end of each month, and transfers all monthly question responses to the update forms from the HES ledger cards after the 30th of the month. Every quarter, quarterly question responses on the ledger cards are compared with those preprinted on the update forms from the last submission. Current entries that differ from those given previously are transferred to the current update forms. * The DSA also records any changes to hamlet data, such as population, location, or name, and hamlet deletions, additions, or transfers. Any remarks or explanations of unusual changes are entered on the remarks page (Section A - Communications) of the update forms. When all the data has been recorded on the update forms, the DSA signs the forms, retains a carbon copy for his records, and forwards the original forms and two carbon copies to the province senior advisor (PSA). The forms are due at province headquarters on the 2nd of the month.

The PSA collects forms for all districts, reviews the DSAs' responses, enters any province comments, signs the forms, retains a carbon copy of each, and submits the originals and one carbon to region headquarters by the 4th of the month. Region headquarters reviews the forms, insures that all forms have been received from province headquarters, retains a carbon copy, and submits all the original update forms to MACCORDS-RAD/Automatic Data Processing Division (MACCORDS-RAD/ADP) in Saigon by the 5th of the month. MACCORDS-RAD/ADP then delivers the forms to MACCORDS-RAD/A for processing.

_____
* It should be noted that quarterly data may be updated during non-quarterly months.

3.3 Data Review and Processing. Upon receipt of the update forms, MACCORDS-RAD/A personnel log in the source documents, insuring that all have been received, and perform a thorough review of the data for accuracy prior to submission for keypunching. During this quality control review, the analysts examine such items as transfers of population among hamlets, as well as deletions and additions of hamlets and villages, and perform a general check for completeness and legibility. Also, HES Newsletters containing messages to the DSAs are written, and messages to appear on the update forms are coded. The DSAs' question responses are then formatted for keypunching, and the prepared data is logged out and submitted, by the 10th of the month, to the Military Assistance Command Data Management Agency (MACDMA) for data processing. The source documents are controlled, in and out of DMA, by assignment of job numbers and logbook entries. DMA punches and verifies the source data from the source documents. These keypunched and verified HES activity cards are one of the prime data inputs to the computer processing system. Keypunched data and edit error listings are returned to MACCORDS-RAD/A for manual edit correction against original update forms prior to subsequent system processing. MACCORDS-RAD/ADP retains the source documents as backup for 90 days, then destroys them. The HES activity cards are retained at DMA for use in the computer processing cycle. As soon as a new cycle has been successfully completed, the cards are returned to MACCORDS-RAD/ADP where they are retained for 90 days, then destroyed. Data review, keypunching, and data editing operations occur from the 5th to around the 10th of the month. During the last month of each quarter, when the DSAs submit their quarterly responses, these operations may take somewhat longer due to the increased volume of data. Processing includes programs for updating the HES basic master file, scoring and computing ratings for the HES models, validating current month summary data, production of update forms, and production of HES reports.

3.4 Update Forms and Reports Production. Production of HES reports and update forms begins around the 13th day of each month and continues for about one week. Reports are ready for distribution by approximately the 15th of the month and are distributed by MACCORDS-RAD/ADP to U.S. military and government agencies, GVN agencies, and Free World Military Assistance Forces (FWMAF). DMA produces the HES update forms (using current month data) for submission back to the DSA for updating during the next month's cycle. MACCORDS-RAD/ADP distributes these forms to region and province headquarters for transmittal to the DSAs for completion after the 30th of the month.

7

3.5   HES Keypunch Instructions - Part 1. Source document - Section
A of the HES updating forms.

   (a) Detailed keypunch instructions, including field specifica-
        tions, are given in figure 3-1. Note that card code C must
        appear in column 80 on all cards punched from section A.

   (b) An example of the format of the source document is given
        in the HES Command Manual (figure 2-3).

   (c) General keypunch instructions are as follows:

        (1) Punch district ID, located in upper left-hand corner
             of the form. (This may be duplicated throughout the
             district after the first card has been punched.)

        (2) For any hamlet where a change has been indicated,
             punch the four-digit hamlet ID number followed by
             those data elements that have been changed,
             punched in their appropriate fields.

3.6   HES Keypunch Instructions - Part 2. Source document - Section
B of the HES updating forms.

   (a) Detailed keypunch instructions, including field specifica-
        tions, are given in figure 3-2. Note that card code B must
        appear in column 80 on all cards punched from section B.

   (b) An example of the format of the source document is given
        in the HES Command Manual (figure 2-4).

   (c) Note that the card format has been set up to permit two
        hamlet/village records to be punched on one card:

        Columns 1-39, reserved for first hamlet/village record

        Columns 40-78, reserved for second hamlet/village record

        Column 79, space

        Column 80, B

        The purpose of this format is to reduce the total card
        volume generated by the HES report.

8

KEYPUNCH INSTRUCTIONS

CUSTOMER __MACCORDS/RAD__

JOB TITLE __HES - Section "A" of HES Updating Forms__

APPROX NO. OF CARDS _____   CONTROL NO. _____

CARD TYPE __'C' Cards - Hamlet Roster__   STEP NO. _____

NAME OF FIELD	COLUMNS FROM	COLUMNS THRU	NUMBER COLUMNS	PUNCH NUMERIC	PUNCH ALPHA	PUNCH LEFT JUSTIFY	PUNCH RIGHT JUSTIFY	PUNCH ZERO FILL	VERIFY	REMARKS
1. HES District ID	1	5	5	X		X			X	May be auto-duplicated.
2. Hamlet ID	6	9	4	X		X			X	
3. Blank (auto-skip)	10	29	20							
4. Hamlet Name	30	49	20	X	X	X			X	
5. GVN Serial Number	50	53	4	X	X	X			X	
6. UTM Coordinates										
Grid Square Alpha	54	55	2		X	X			X	
Grid Square Numeric	56	61	6	X		X			X	
7. Permanent Residents	62	66	5	X			X	X	X	
8. Temporary Residents	67	71	5	X			X	X	X	
9. Blank (auto-skip)	72	79	8							Auto-skip.
10. Card Type Code	80		1	X				X	X	Auto-dup 'C' in each card.

DISPOSITION OF CARDS __Retain at DMA for edit; return__   DATE PREPARED __15 /Feb. / 71__

__documents to CORDS/RAD.__   SUBMITTED BY _____

Figure 3-1

KEYPUNCH INSTRUCTIONS: SECTION A - HES UPDATING FORMS

9

KEYPUNCH INSTRUCTIONS

CUSTOMER ___ MACCORDS/RAD ___

JOB TITLE ___ HES - Section "B" of HES Updating Forms ___

APPROX. NO. OF CARDS _____   CONTROL NO. _____

CARD TYPE ___ 'B' Cards - Monthly Data ___   STEP NO. _____

| NAME OF FIELD | COLUMNS | | NUMBER COLUMNS | PUNCH | | | | | VERIFY | REMARKS |
	FROM	THRU		NUMERIC	ALPHA	LEFT JUSTIFY	RIGHT JUSTIFY	ZERO FILL		
1. HES District ID	1	5	5	X					X	May be auto-duplicated.
2. HES Village/Hamlet ID	6	9	4	X					X	
3. Responses to Questions	10	39	30	X	X				X	
4. HES District ID	40	44	5	X					X	May be auto-duplicated.
5. HES Village/Hamlet ID	45	48	4	X					X	
6. Responses to Questions	49	78	30	X	X				X	
7. Blank (Auto-skip)	79		1							Auto-skip
8. Card Type Code	80		1	X					X	Auto-dup 'B' in each card.

DISPOSITION OF CARDS ___ Retain at DMA for Edit; ___   DATE PREPARED ___ 15 / Feb/ 71 ___
Return documents to CORDS/RAD. _____   SUBMITTED BY _____

Figure 3-2
KEYPUNCH INSTRUCTIONS: SECTION B - HES UPDATING FORMS

10

(d) General keypunch instructions are as follows:

(1) Punch the five-digit district ID found in the upper left-hand corner of the page, followed by the hamlet/village ID and the hamlet/village question responses.

(2) Skip to th   tarting point for the s   ond hamlet/village r   rd and repeat the abov   process.

(3) Note tl   le district ID may be duplicated throughout the dist   after the first card has been punched.

(4) If no responses have been recorded for a hamlet or village record, no card should be punched for that hamlet or village.

(5) If question responses have been obliterated, are illegible, or have otherwise been left incomplete, punch such fields as spaces.

3.7   HES Keypunch Instructions - Part 3. Source document - Section C of the HES updating forms.

(a) Detailed keypunch instructions, including field specifications, are given in figure 3-3. Note that card code C must appear in column 80 on all cards punched from section C.

(b) An example of the format of the source document is given in the HES Command Manual (figures 2-5 and 2-6).

(c) General keypunch instructions are as follows:

(1) Punch district ID located at upper left-hand corner of the form. (This may be duplicated throughout the district after the first card has been punched.)

(2) Scan the hamlet/village response sets for any changes entered. (Check marks should have been entered in the box at upper left to aid in locating response sets with changes entered.) Only response sets with changes entered should be punched.

11

KEYPUNCH INSTRUCTIONS

CUSTOMER ___MACCORDS/RAD___

JOB TITLE ___HES Section "C" of HES Updating Forms___

APPROX. NO. OF CARDS _____   CONTROL NO. _____

CARD TYPE ___'C' Cards - Quarterly Data___   STEP NO _____

NAME OF FIELD	COLUMNS FROM	COLUMNS THRU	NUMBER COLUMNS	NUMERIC	ALPHA	L J LEFT JUSTIFY	R J RIGHT JUSTIFY	ZERO FILL	VERIFY	REMARKS
1. HES District ID	1	5	5	X		X			X	May be auto-duplicated.
2. Village/Hamlet ID	6	9	4	X		X			X	
3. Topic Group Code	10	79	70	X	X	X			X	
• Letters followed by question responses.										
4. Card Type Code	80		1	X					X	Auto-dup 'C' in each card.

DISPOSITION OF CARDS ___Retain at DMA for edit;___   DATE PREPARED ___15 / Feb/ 71___

___Return documents to CORDS/RAD.___   SUBMITTED BY _____

Figure 3-3

KEYPUNCH INSTRUCTIONS: SECTION C - HES UPDATING FORMS

(3) When a response set with changes is found, punch the four-digit hamlet ID number, followed by the changed blocks code letter and all of its responses. Punch only blocks with changes entered, following each block immediately with the next changed block. When any portion of a block is changed, the entire block must be punched.

(4) When numerous blocks of a hamlet or village response set have changed, it may be necessary to use two cards to complete all the responses. When column 79 is reached on the first card, possibly in the middle of punching a response block, complete the card by punching the C in column 80 and release. Begin a second card by duplicating the entire USID off the first card followed by a repeat of the entire incomplete response block or the next changed block of the response set.

(5) If particular question responses have not been completed, are Xd out, obliterated, or are otherwise, illegible, punch such fields as spaces.

(6) If a particular question response space is filled with preprinted Xs, skip the space and punch the next question response immediately following the response which preceded the Xd out space. (Do not punch the Xd out space as a space as described in the conditions mentioned in paragraph c above.)

3.8   HES Keypunch Instructions - Part 4. Source document - 80 Column Card Keypunch Forms.

(a) In addition to sections A, B, and C of the HES updating forms as described in paragraphs 3.5 through 3.7, keypunching must be accomplished from 80 column forms prepared by CORDS-RAD personnel.

(b) Examples of the five types of keypunch forms that will be used during the HES review are given in figures 3-4 through 3-8.

13

Figure 3-4
HES KEYPUNCH FORM #1 - HAMLET DESCRIPTIVE DATA

JOB NO. _____	DATE _____	PUNCHED BY _____	VERIFIED BY _____	NO. OF CARDS _____	SHEET ___ OF ___

1. Dist. I.D.	2. Hamlet I.D.	3. - SKIP -	4. HAMLET NAME	SKIP	5. UTM Coordinates	6. Perm. Residents	7. Temp. Residents	9. Card Type / 8. - SKIP -
3 1 8 0 2	0 5 0 5		TAN PHU		X T 7 2 1 4 3 2	0 0 7 1 2	0 0 0 0 0	A2
4 4 4 0 1	0 7 0 6		TRA HUNG DAO					2

Column guide: 1 2 3 4 5 | 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80

PREVIOUS EDITION OF THIS FORM IS OBSOLETE

KEYPUNCH WORK SHEET

Changes to the hamlet roster; Card Type Code = '2'; Fields 1, 2 & 9 are mandatory; One entry in fields 4, 5, 6, or 7 is also mandatory.

Addition of hamlet to roster; Card Type Code = 'A2' Fields 1, 2 & 9 are mandatory; Fields 4, 6, & 7 are also mandatory; Field 5 is optional.

14

Figure 3-5

DES   KEYPUNCH FORM #2 — VILLAGE DESCRIPTIVE DATA

| JOB NO. _____ | DATE _____ | PUNCHED BY ____ | VERIFIED BY ____ | NO. OF CA: | SHEET ___ OF |

1 DISTRICT ID	2 VILL-AGE ID	3 VILLAGE NAME	4 NON-HAMLET POPULATION	5 EXPLANATION OF NON-HAMLET POPULATION	6 blank	7 CARD TYPE
2 1 5 0 1	0 4 0 0		0 0 0 5 3	2 RF DEPENDENTS		5
2 1 2 0 2	0 6 0 0	THANH TICH	0 0 0 0 0 0			A 5
1 0 5 0 2	0 4 0 0		0 0 0 0 0 0			5

KEYPUNCH WORK SHEET

Changes to village data; Card Type Code = '5' ;   Fields 1, 2 & 7 are mandatory; One entry in fields 4, 3 or 5 is also mandatory. Non-zero entry in field 4 requires explanation in field 5.

Addition of new village; Card Type Code = "A5";   Fields 1, 2 & 7 are mandatory; Fields 3 & 4 are also mandatory; Field 5 is mandatory if field 4 is non-zero.

15

Figure 3-6

HES KEYPUNCH FORM #3 -- DISTRICT/PROVINCE DESCRIPTIVE DATA

| JOB NO. ___ | DATE ___ | PUNCHED BY ___ | VERIFIED BY ___ | NO. OF CARDS ___ | SHEET ___ OF ___ |

1 DISTRICT ID	2 Zero fill	3 DISTRICT(PROVINCE) NAME	4 RANK AND NAME OF DISTRICT (PROVINCE) ADVISOR	5 DEROS	6	7 Card Type

Data rows:

1 2	3 4	5 6 7 8 9	...	30 31 32 33 34 ...	...	DEROS	...	Card Type
4 3	2 0	1 0 0 0 0		MAJ JOHN P. QUINN		0 7 A P R 7 1		8
3 2	9 0	0 0 0 0 0		LTC BILL HUNT		1 6 N O V 7 0		9

MACV FORM 20 APR 68 418   PREVIOUS EDITION OF THIS FORM IS OBSOLETE   **KEYPUNCH WORK SHEET**

Changes to District data: Card Type Code = '8'; Fields 1, 2 & 7 are mandatory; One entry in fields 3, 4 or 5 is also mandatory.
Changes to Province data: Card Type Code = '9';   "   "   "   "   "   "   "   "   "   "   "   "   "   "   "   "

Addition of new district: Card Type Code = 'A8'; Fields 1, 2 & 7 are mandatory; Fields 3, 4 & 5 are also mandatory.
Addition of new province: Card Type Code = "A9";   "   "   "   "   "   "   "   "   "   "   "   "   "

16

Figure 3-7

HES KEYPUNCH FORM #4 - I.D. NUMBER CHANGES

JOB NO. _____	DATE _____	PUNCHED BY ____	VERIFIED BY ____	NO. OF CARDS ____	SHEET ___ OF ___

1. Old USID		2. SKIP	3. New USID		4. SKIP	5. Change Date	6. SKIP	7. REMARKS/CHANGE CODES	8. Card Type
Dist.	Village		Dist.	Village					
20702	0401		20702	0601		1109		T-2	D
20703	0202								D
20601	0201		20601	0202		1109		C-3	D
									D
									D
									D
									D
									D
									D
									D
									D
									D
									D
									D
									D
									D
									D

Column positions: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80

DELETE HAMLET/VILLAGE I.D. - FIELDS 1 & 8 ARE MANDATORY (CARD TYPE CODE "D") FIELDS 3, 5,   & 7 ARE OPTIONAL.

Figure 3-8

HES   ADMIN ID KEYPUNCH FORM

JOB NO. ____	DATE _____	PUNCHED BY ____	VERIFIED BY ____	NO. OF CARDS ____	SHEET ___ OF ___

HAMLET USID | | ADMIN USID

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	...	80
1	0	1	0	3	0	1	0	4	0	1	0	1	0	6	5	0	9	1	0	1	0	3	0	0	0	0			1
1	0	1	0	3	0	1	0	5	0	1	0	1	0	6	5	0	9	1	0	1	0	3	0	0	0	0			1
1	0	1	0	3	0	1	0	6	0	1	0	1	0	6	5	0	9	1	0	1	0	3	0	0	0	0			1
									0	1	0	1	0	6	5	0	9												1
									0	1	0	1	0	6	5	0	9												1
									0	1	0	1	0	6	5	0	9												1
									0	1	0	1	0	6	5	0	9												1
									0	1	0	1	0	6	5	0	9												1
									0	1	0	1	0	6	5	0	9												1
									0	1	0	1	0	6	5	0	9												1
									0	1	0	1	0	6	5	0	9												1
									0	1	0	1	0	6	5	0	9												1
									0	1	0	1	0	6	5	0	9												1
									0	1	0	1	0	6	5														1
									0	1	0	1	0																1

KEYPUNCH WORK SHEET

18

3.9   QTAB File Generation (R7951C). Procedure R7951C is made up of two programs (R7101P, RVDUMPS) and a sort step. The programs and sort step are linked together to edit QTAB file cards, produce a QTAB report, and generate a sorted QTAB file.

The QTAB (question directory table) is actually a module or set of records, which, taken together, describe the current composition of the HES question and model set. (A detailed description of the QTAB module is given in the HES Basic Master File Description and Synopsis provided under separate cover. A detailed description of the programs are given in the program maintenance manual.) The following figures illustrate various aspects of QTAB:

Figure 3-9	QTAB Procedure Flow
Figure 3-10	Cataloged Procedure and Calling Deck
Figure 3-11	Date Card
Figure 3-12	Sort Control Card
Figure 3-13	Sample Run Sheet

3.10   Edit-A/Edit-B (R7952C). Procedure R7952C is a procedure made up of two programs (R7102P, R7103P) and two sort steps. The programs and sort steps are linked together to edit HES transaction data, produce a sorted transaction file, and produce an edit error/warning report. The programs are described in detail in the program maintenance manual. The following figures illustrate various aspects of R7952C:

Figure 3-14	Procedure Flow
Figure 3-15	Cataloged Procedure
Figure 3-16	Procedure Call Deck
Figure 3-17	Sort Control Parameters
Figure 3-18	Sample Run Sheet

3.11   Edit-A/Edit-B Update (R7953C). Procedure R7953C is made up of three programs (R7102P, R7103P, R7104P) and two sort steps. The programs and sort steps are linked together to perform the final edit of HES transaction cards, to produce the reports and file generated in procedure R7952C, and execute the update program which produces the update report, the unscored HES master file, and the Bayesian input file. The programs are described in detail in the program maintenance manual. The following figures illustrate various aspects of R7952C:

19
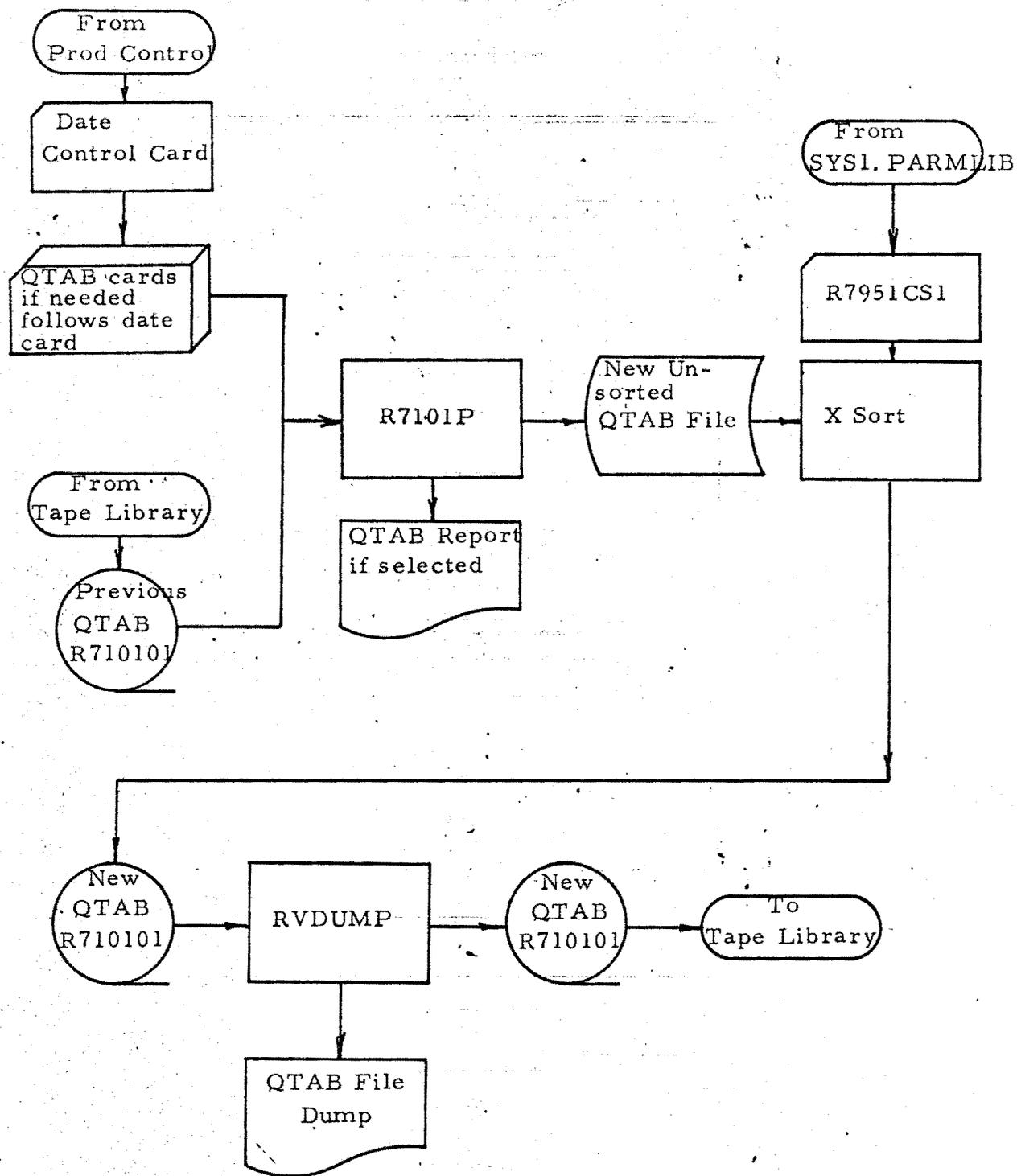
Figure 3-9

R7951C PROCEDURE FLOW

20

```
  ..DER NAME   R79510
//R79510      PFOC  P710101=999999,CPU=60                               00000010
//R7101       EXEC  PGM=R7101P,TIME=&CPU                                00000020
//*           NAME=M.S.MAHEF,DIV/BR=CORDS-RAD,DAR=R7,DATE=03APR71       00000030
//*           RES QTAB GENERATION                                       00000040
//STEPLIB     DD    DSN=CORDSLIB,DISP=SHR                               00000050
//TAPE01      DD    UNIT=2400-3,DSN=R710101,DISP=(OLD,KEEP),          X00000060
//            VOL=SER=&R710101                                          00000070
//TAPE02      DD    UNIT=2314,SPACE=(TRK,(1100),,CONTIG),             X00000080
//            DISP=(NEW,PASS),DCB=(RECFM=VB,LRECL=2000,BLKSIZE=5000)    00000090
//TAPE03      DD    UNIT=2314,SPACE=(TRK,(500),,CONTIG)                 00000100
//SYSOUT      DD    SYSOUT=A                                            00000110
//SYSABEND    DD    SYSOUT=A                                            00000120
//SYSIN       DD    DDNAME=QTABCDS                                      00000130
//XSORT       EXEC  PGM=IERRCO00,PARM='MSG=AP,CORE=090000'              00000140
//SORTLIB     DD    DSNAME=SYS1.SORTLIB,DISP=SHR                        00000150
//SYSOUT      DD    SYSOUT=A                                            00000160
//SYSABEND    DD    SYSOUT=A                                            00000170
//SORTIN      DD    DSN=*.R7101.TAPE02,DISP=(OLD,DELETE),             X00000180
//            DCB=(RECFM=VB,LRECL=2000,BLKSIZE=5000)                    00000190
//SORTOUT     DD    DSNAME=R710101,UNIT=TAPE,DISP=(NEW,PASS,KEEP),    X00000200
//            DCB=(RECFM=VB,LRECL=2000,BLKSIZE=5000)                    00000210
//SORTWK01    DD    UNIT=2314,SPACE=(TRK,(500),,CONTIG)                 00000220
//SORTWK02    DD    UNIT=2314,SPACE=(TRK,(500),,CONTIG)                 00000230
//SORTWK03    DD    UNIT=2314,SPACE=(TRK,(500),,CONTIG)                 00000240
//SORTWK04    DD    UNIT=2314,SPACE=(TRK,(500),,CONTIG)                 00000250
//SORTWK05    DD    UNIT=2314,SPACE=(TRK,(500),,CONTIG)                 00000260
//SORTWK06    DD    UNIT=2314,SPACE=(TRK,(500),,CONTIG)                 00000270
//SYSIN       DD    DSN=SYS1.PARMLIB(R7951CS1),DISP=SHR                 00000280
//RDUMP       EXEC  PGM=RVDUMP                                          00000290
//STEPLIB     DD    DSN=CORDSLIB,DISP=SHR                               00000300
//TAPE01      DD    DSN=*.XSORT.SORTOUT,DISP=(OLD,KEEP)                 00000310
//SYSOUT      DD    SYSOUT=A                                            00000320
//SYSABEND    DD    SYSOUT=A                                            00000330
                                                                       00000340
```

Figure 3-10

CATALOGED PROCEDURE AND CALLING DECK (Sheet 1 of 2)

21

```
/*
X7112
//R7101.QTABCDS DD *
//            EXEC R7951C,R710101=003368
//            TIME=60
//            (R7951C,PRC,070,030,000,,·),'R-HES',MSGLEVEL=1,
                                        CLASS=C,   X
```

Figure 3-10

CATALOGED PROCEDURE AND CALLING DECK (Sheet 2 of 2)

22

SYSTEM NAME: HES   **EFFECTIVE DATE:** 1 JANUARY 1970

Record Name	Base	1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	6	7	8	9	20	1	2	3	4	5	6	7	8	9	30	1	2	3	4	5	6	7	8	9	40
			Date																										Blank												
		X	Y	Y	M	M	X																																		
																				Blank																				

NOTE: If CC6 is not blank, the QTAB report will not be produced.
The date must be one month greater than the previous months QTAB file.

	1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	6	7	8	9	20	1	2	3	4	5	6	7	8	9	30	1	2	3	4	5	6	7	8	9	40

Figure 3-11

DATE CARD

FNRT NAME   R7951CS1
SORT FIELDS=(5,28,A),FORMAT=CH   00000010

Figure 3-12

SORT CONTROL CARD

24

CONTROL NUMBER	HASP NO	PART NO	START TIME	JOB SEQUENCE		REQUESTOR	JOB NAME
				JOB 1 OF 1		R-HES	R7951C

JOB CLASS	MAX TAPES	JOB CODE	CLASSIF	PRTY	RUN CODE	EXEC TIME	PRINT TIME	CARDS PCH	FORM NO	COPIES
C	2	R7951C	C	3	PR	70	30	0	1	1

I/O IN	OUT	BPI	FP YES	NO	VOL SER	DATA SET NAME		DISP INSTR KEEP	SCRATCH	RET	PRINT INSTR TAPRT	DEBE	No CYS/RECORDS
☒	☐	N	☒	☐	XXXX	R7IO 1	QTAB	☒	☐	I	☐	☐	
☐	☒	N	☐	☒		R71 01	QTAB	☒	☐	I	☐	☐	
☐	☐			☐	☐			☐	☐		☐	☐	
☐	☐			☐	☐			☐	☐		☐	☐	
☐	☐			☐	☐			☐	☐		☐	☐	
☐	☐			☐	☐			☐	☐		☐	☐	
☐	☐			☐	☐			☐	☐		☐	☐	
☐	☐			☐	☐			☐	☐		☐	☐	

CONSOLE MESSAGE

OPERATOR ACTION REQUIRED

REMARKS OR SPECIAL INSTRUCTIONS

I/O BOUND

BOOKING AND BINDING INSTRUCTIONS

MAC DMA FORM 14, I AUG 70 360/50 COMPUTER OPERATING INSTRUCTIONS

Figure 3-13

SAMPLE RUN REQUEST

25
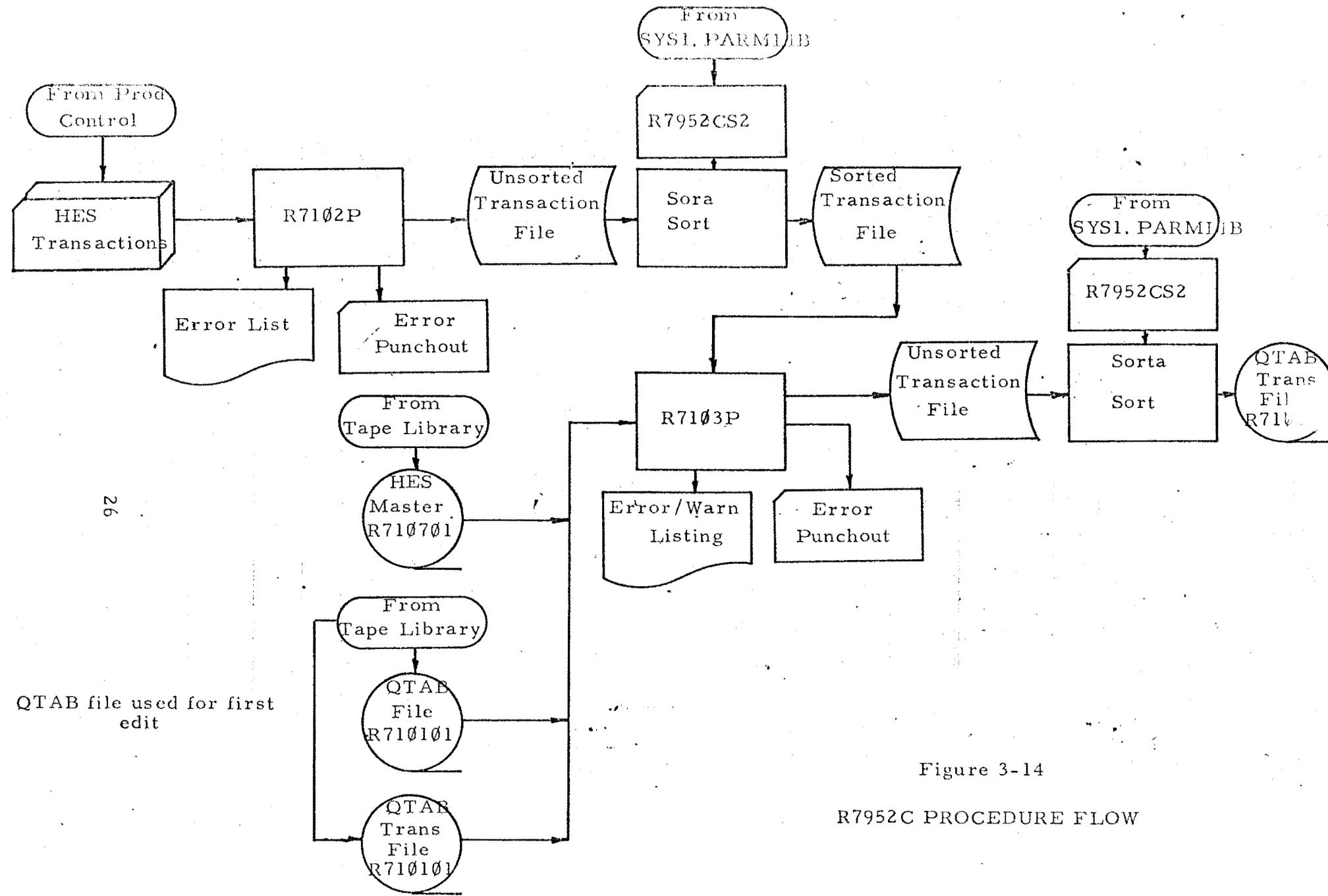
Figure 3-14

R7952C PROCEDURE FLOW

QTAB file used for first edit

26

```
MEMBER NAME   R7052C
//R7052C     PROC   SERIAL=999999,CPU=10,CPU2=30,SEQ=01,QSERIAL=999999   00000001
//R7102      EXEC   PGM=R7102P,TIME=&CPU                                  00000002
//*          NAME=M.S.MAHER,DIV/BR=CORDS-RAD,DAR=27,DATE=22MAR71          00000003
//*          HRS EDIT-A  EDIT-B                                           00000004
//STEPLIB    DD     DSNAME=CORDSLIB,DISP=SHR                              00000005
//SYSPUN     DD     SYSOUT=B                                              00000006
//SYSOUT     DD     SYSOUT=A                                              00000007
//SYSABEND   DD     SYSOUT=A                                              00000008
//TAPE01     DD     UNIT=2314,SPACE=(TRK,(1100),,CONTIG),              X00000009
//           DISP=(NEW,PASS),DCB=(RECFM=FB,LRECL=100,BLKSIZE=5000)        00000010
//SYSIN      DD     DDNAME=EDITCDS                                        00000011
//SORA       EXEC   PGM=IERRCO00,PARM='MSG=AP,CORE=090000'                00000012
//SORTLIB    DD     DSN=SYS1.SORTLIB,DISP=SHR                             00000013
//SYSOUT     DD     SYSOUT=A                                              00000014
//SYSABEND   DD     SYSOUT=A                                              00000015
//SORTIN     DD     DSN=*.R7102.TAPE01,DISP=(OLD,DELETE),              X00000016
//           DCB=(RECFM=FB,LRECL=100,BLKSIZE=5000)                        00000017
//SORTOUT    DD     UNIT=2314,DISP=(NEW,PASS),                         X00000018
//           SPACE=(TRK,(1100),,CONTIG),                              X00000019
//           DCB=(RECFM=FB,LRECL=100,BLKSIZE=5000)                        00000020
//SORTWK01   DD     UNIT=2314,SPACE=(TRK,(500),,CONTIG)                   00000021
//SORTWK02   DD     UNIT=2314,SPACE=(TRK,(500),,CONTIG)                   00000022
//SORTWK03   DD     UNIT=2314,SPACE=(TRK,(500),,CONTIG)                   00000023
//SORTWK04   DD     UNIT=2314,SPACE=(TRK,(500),,CONTIG)                   00000024
//SORTWK05   DD     UNIT=2314,SPACE=(TRK,(500),,CONTIG)                   00000025
//SORTWK06   DD     UNIT=2314,SPACE=(TRK,(500),,CONTIG)                   00000026
//SYSIN      DD     DSN=SYS1.PARMLIB(R7052CS1),DISP=SHR                   00000027
//R7103      EXEC   PGM=R7103P,TIME=&CPU2                                 00000028
//STEPLIB    DD     DSNAME=CORDSLIB,DISP=SHR                              00000029
//TAPE01     DD     DSN=R710101,UNIT=2400-3,DISP=(OLD,KEEP),           X00000030
//           VOL=SER=&QSERIAL                                             00000031
//TAPE02     DD     DSN=*.SORA.SORTOUT,DISP=(OLD,DELETE)               X00000032
//TAPE03     DD     UNIT=2314,SPACE=(TRK,(1100),,CONTIG),              X00000033
//           DISP=(NEW,PASS),DCB=(RECFM=VB,LRECL=2000,BLKSIZE=5000)       00000034
//TAPE04     DD     DSN=R7107&SEQ,UNIT=2400-3,DISP=(OLD,KEEP),         X00000035
//           VOL=SER=&SERIAL                                              00000036
//TAPE05     DD     UNIT=2314,SPACE=(TRK,(1100),,CONTIG),              X00000037
//           DCB=(RECFM=VB,LRECL=2000,BLKSIZE=5000),DISP=(NEW,DELETE)     00000038
//SYSOUT     DD     SYSOUT=A                                              00000039
//SYSABEND   DD     SYSOUT=A                                              00000040
//SYSPUN     DD     SYSOUT=B                                              00000041
//SORTA      EXEC   PGM=IERRCO00,PARM='MSG=AP,CORE=090000',TIME=15        00000042
//SORTLIB    DD     DSN=SYS1.SORTLIB,DISP=SHR                             00000043
//SYSOUT     DD     SYSOUT=A                                              00000044
//SYSABEND   DD     SYSOUT=A                                              00000045
//SORTIN     DD     DSN=*.R7103.TAPE03,DISP=(OLD,DELETE),              X00000046
//           DCB=(RECFM=VB,LRECL=2000,BLKSIZE=5000)                       00000047
//SORTOUT    DD     UNIT=2400-3,DISP=(NEW,PASS),DSN=R710101,           X00000048
//           DCB=(RECFM=VB,LRECL=2000,BLKSIZE=5000)                       00000049
//SORTWK01   DD     UNIT=2314,SPACE=(TRK,(900),,CONTIG)                   00000050
//SORTWK02   DD     UNIT=2314,SPACE=(TRK,(900),,CONTIG)                   00000051
//SORTWK03   DD     UNIT=2314,SPACE=(TRK,(900),,CONTIG)                   00000052
//SORTWK04   DD     UNIT=2314,SPACE=(TRK,(900),,CONTIG)                   00000053
//SORTWK05   DD     UNIT=2314,SPACE=(TRK,(900),,CONTIG)                   00000054
//SORTWK06   DD     UNIT=2314,SPACE=(TRK,(900),,CONTIG)                   00000055
//SYSIN      DD     DSN=SYS1.PARMLIB(R7052CS2),DISP=SHR                   00000056
```

Figure 3-15
CATALOG PROCEDURE
27

```
/*
//R7102.EDITCDS DD    *
//              EXEC R7952C,SERIAL=000578,RSERIAL=000402
//              TIME=90
//              (R7952C,PRC,040,10,200,2),'R-HES',MSGLEVEL=1,
                                           CLASS=D,    X
```

Figure 3-16

PROCEDURE CALL DECK

28

```
                                                    *** S Y S 1 . , P A R M L I B ***
                                                         AS OF 08 JAN 72
MEMBER NAME  P7952CS1
  SORT FIELDS=(001,15,CH,A)                                              00000010




                                                    *** S Y S 1 . P A R M L I B ***
                                                         AS OF 08 JAN 72
MEMBER NAME  P7952CS2
  SORT FIELDS=(005,28,CH,A)                                             00000010
```

Figure 3-17

SORT CONTROL PARAMETERS

29

CONTROL NUMBER	HASP NO	PART NO	START TIME	JOB SEQUENCE JOB 1 OF 2	REQUESTOR R-HES	JOB NAME R7952C

JOB CLASS	MAX TAPES	JOB CODE	CLASSIF	PRTY	RUN CODE	EXEC TIME	PRINT TIME	CARDS PCH	FORM NO	COPIES
D	3	R7952C	C	3	PR	40	10	200	2	1

I/O IN	OUT	BPI	F P YES	NO	VOL SER	DATA SET NAME	DISP INSTR KEEP	SCRATCH	RET	PRINT INSTR TAPRT	DEBE	NO CYS/RECORDS
☒	☐	N	☒	☐	999	R710701	☒	☐	I	☐	☐	
☒	☐	N	☒	☐	999	R710101	☒	☐	I	☐	☐	
☐	☒	N	☐	☒		R710101	☒	☐	I	☐	☐	
☐	☐		☐	☐			☐	☐		☐	☐	
☐	☐		☐	☐			☐	☐		☐	☐	
☐	☐		☐	☐			☐	☐		☐	☐	
☐	☐		☐	☐			☐	☐		☐	☐	
☐	☐		☐	☐			☐	☐		☐	☐	

CONSOLE MESSAGE	OPERATOR ACTION REQUIRED

REMARKS OR SPECIAL INSTRUCTIONS

BOOKING AND BINDING INSTRUCTIONS

2 part paper, decollate

Interpret any punchout, job 2 of 2

MAC DMA FORM 14, I AUG 70 360/50 COMPUTER OPERATING INSTRUCTIONS

Figure 3-18

SAMPLE RUN REQUEST (Sheet 1 of 2)

36Ø/2Ø COMPUTER OPERATING INSTRUCTIONS		DMA CONTROL NUMBER	

36Ø/2Ø COMPUTER OPERATING INSTRUCTIONS	**DMA CONTROL NUMBER**
SEE INSTRUCTIONS ON REVERSE SIDE BEFORE FILLING OUT FORM	JOB 2 OF 2 JOBS

JOB CODE	JOB NAME	PRIORITY	CLASSIFICATION	RUN CODES RO -	SEE ADP
R 7 9 5 2 C	R 7 9 5 2 C	3	C	PR - RP -	NOTE NUMBER
AGENCY	REQUESTOR	PHONE	RUN CODE	RD - RS -	4 FOR EX-
CORDS	R-HES	4151	PR	RE - TE -	PLANATION
				RF - TEP -	OF RUN CODES

EST RUN TIME (MIN)

DOCUMENT PRINT HEAD SETTINGS

Position	Line	Position	Line
12 PUNCH	2	4 PUNCH	14
11 PUNCH	4	5 PUNCH	16
10 PUNCH	6	6 PUNCH	18
1 PUNCH	8	7 PUNCH	20
2 PUNCH	10	8 PUNCH	22
3 PUNCH	12	9 PUNCH	24

PRINTER

	STD	OTHER
PART PAPER	X	
MARGINS	X	
CARRIAGE TAPE	X	
ADDL PRINTER INFO		

DOCUMENT PRINT HEAD SETTING

HEAD	LINE	DESCRIPTION
1		
2		

INPUT

HOPPER	
PRIMARY	
SECONDARY	

CARD OUTPUT

STACKER	
1	
2	
3	
4	
5	

HALTS AND ERROR MESSAGES

HALT NO.			MESSAGE OR HALT MEANING	ACTION
S	T	R		

REMARKS/SPECIAL INSTRUCTIONS

Interpret punchout from job 1 of 2

Figure 3-18

SAMPLE RUN REQUEST (Sheet 2 of 2)

MACDMA FORM 30
1 Feb 69

31

boilerplate
NARA Reference Copy

3.12   Bayesian Score and Merge (R7955C). Procedure R7955C is made up of two computer programs (R7105P, R7106P). The programs are linked together to score and merge the HES master file. The procedure generates a Bayesian report, a 13-month HES master file, a historical HES master file, and a posterior probability file. The programs are described in detail in the program maintenance manual. The following figures illustrate various aspects of R7955C:

3.13   HES Audit Program (R7107P). Program R7107P is a computer program used to audit the scored HES master file. The program generates an error report and an error-free HES master file. R7107P is described in detail in the program maintenance manual. The following figures illustrate various aspects of R7107P:

3.14   Washington Tape Copy (R7108P). Program R7108P is used to copy parts of the 13-month HES master file. The program generates two 800 BPI tape files, which are sent to Washington. See distribution for address. Figures 3-31 through 3-33 illustrate various aspects of R7108P:

3.15   IERRCO00 Sort. At this point in the production cycle, the scored 13-month master (R7107Ø1) must be sorted into USID sequence (R7107Ø2). After the sort, the historical HES master and the two 13-month master files (R7107Ø1, R7107Ø2) should be retained as backup copies. All of these steps are accomplished with standard utility routines. The following figures illustrate various aspects of IERRCO00 sort:

32

HES Transactions → R7102P → Unsorted Transaction File → Sora Sort → Sorted Transaction File

From SYS1. PARM... → R7953CS2 → Sora Sort

R7102P → Error List

R7102P → Error Punchout

From Tape Library → HES Master R710701 → R7103P

From Tape Library → QTAB File R710101

QTAB file used for first edit

From Tape Library → QTAB Trans File R710101

R7103P → Error/Warn Listing

R7103P → Error Punchout

R7103P → Unsorted Transaction File → Sorta Sort → QTAB Trans File R710101

From SYS1. PARMLIB → R7953CS2 → Sorta Sort

R7104P → Update Report

From Tape Library → HES Master Historical R710799 → R7104P

From Prod Control → Control Card → R7104P

R7104P → Unscored HES Master R710799

R7104P → Bayesian Input Tape R7107BE

Figure 3-19

R7953C PROCEDURE FLOW

```
PROC  NAME  R7953C

//R7953C     PROC   SERIAL=959999,CPU=10,CPU2=30,SEQ=99,               X00000010
//                  OSERIAL=999999,CPU3=120                              00000020
//R7102      EXEC   PGM=R7102P,TIME=&CPU                                 00000030
//*                 NAME=M.S.MAHER,DIV/BR=CORDS-RAD,DAP=R7,DATE=22MAR71  00000040
//*                 HES EDIT-A  EDIT-B  UPDATE                           00000050
//STEPLIB    DD     DSNAME=CORDSLIB,DISP=SHR                             00000060
//SYSPUN     DD     SYSOUT=B                                             00000070
//SYSOUT     DD     SYSOUT=A                                             00000080
//SYSABEND   DD     SYSOUT=A                                             00000090
//TAPE01     DD     UNIT=2314,SPACE=(TRK,(1100),,CONTIG),              X00000100
//                  DISP=(NEW,PASS),DCB=(RECFM=FB,LRECL=100,BLKSIZE=5000) 00000110
//SYSIN      DD     DDNAME=EDITCDS                                       00000120
//SORA       EXEC   PGM=IERRC000,PARM='MSG=AP,CORE=090000'               00000130
//SORTLIB    DD     DSN=SYS1.SORTLIB,DISP=SHR                            00000140
//SYSOUT     DD     SYSOUT=A                                             00000150
//SYSABEND   DD     SYSOUT=A                                             00000160
//SORTIN     DD     DSN=*.R7102.TAPE01,DISP=(OLD,DELETE),              X00000170
//                  DCB=(RECFM=FB,LRECL=100,BLKSIZE=5000)                00000180
//SORTOUT    DD     UNIT=2314,DISP=(NEW,PASS),                         X00000190
//                  SPACE=(TRK,(1100),,CONTIG),                        X00000200
//                  DCB=(RECFM=FB,LRECL=100,BLKSIZE=5000)              X00000210
//SORTWK01   DD     UNIT=2314,SPACE=(TRK,(500),,CONTIG)                  00000220
//SORTWK02   DD     UNIT=2314,SPACE=(TRK,(500),,CONTIG)                  00000230
//SORTWK03   DD     UNIT=2314,SPACE=(TRK,(500),,CONTIG)                  00000240
//SORTWK04   DD     UNIT=2314,SPACE=(TRK,(500),,CONTIG)                  00000250
//SORTWK05   DD     UNIT=2314,SPACE=(TRK,(500),,CONTIG)                  00000260
//SORTWK06   DD     UNIT=2314,SPACE=(TRK,(500),,CONTIG)                  00000270
//SYSIN      DD     DSN=SYS1,PARMLIB(R7953CS1),DISP=SHR                  00000280
//R7103      EXEC   PGM=R7103P,TIME=&CPU2                                00000290
//STEPLIB    DD     DSNAME=CORDSLIB,DISP=SHR                             00000300
//TAPE01     DD     DSN=R710101,UNIT=2400-3,DISP=(OLD,KEEP),           X00000310
//                  VOL=SER=&OSERIAL                                     00000320
//TAPE02     DD     DSN=*.SORA.SORTOUT,DISP=(OLD,DELETE)                 00000330
//TAPE03     DD     UNIT=2314,SPACE=(TRK,(1100),,CONTIG),              X00000340
//                  DISP=(NEW,PASS),DCB=(RECFM=VB,LRECL=2000,BLKSIZE=5000) 00000350
//TAPE04     DD     DSN=R7107&SEQ,UNIT=2400-3,DISP=(OLD,PASS),         X00000360
//                  VOL=SER=&SERIAL                                      00000370
//TAPE05     DD     UNIT=2314,SPACE=(TRK,(1100),,CONTIG),              X00000380
//                  DCB=(RECFM=VB,LRECL=2000,BLKSIZE=5000),DISP=(NEW,DELETE) 00000390
//SYSOUT     DD     SYSOUT=A                                            00000400
//SYSABEND   DD     SYSOUT=A                                            00000410
//SYSPUN     DD     SYSOUT=B                                            00000420
//SORTA      EXEC   PGM=IERRC000,PARM='MSG=AP,CORE=090000',TIME=15      00000430
//SORTLIB    DD     DSN=SYS1.SORTLIB,DISP=SHR                           00000440
//SYSOUT     DD     SYSOUT=A                                            00000450
//SYSABEND   DD     SYSOUT=A                                            00000460
//SORTIN     DD     DSN=*.R7103.TAPE03,DISP=(OLD,DELETE),             X00000470
//                  DCB=(RECFM=VB,LRECL=2000,BLKSIZE=5000)              00000480
//SORTOUT    DD     UNIT=2400-3,DISP=(NEW,PASS),DSN=R710101,          X00000490
//                  DCB=(RECFM=VB,LRECL=2000,BLKSIZE=5000)              00000500
//SORTWK01   DD     UNIT=2314,SPACE=(TRK,(900),,CONTIG)                 00000510
//SORTWK02   DD     UNIT=2314,SPACE=(TRK,(900),,CONTIG)                 00000520
//SORTWK03   DD     UNIT=2314,SPACE=(TRK,(900),,CONTIG)                 00000530
//SORTWK04   DD     UNIT=2314,SPACE=(TRK,(900),,CONTIG)                 00000540
//SORTWK05   DD     UNIT=2314,SPACE=(TRK,(900),,CONTIG)                 00000550
//SORTWK06   DD     UNIT=2314,SPACE=(TRK,(900),,CONTIG)                 00000560
```

Figure 3-20
CATALOGED PROCEDURE (Sheet 1 of 2)
34

```
MEMBER NAME   R7953C
//SYSIN       DD     DSN=SYS1.PARMLIB(P7953CS2),DISP=SHR              00000570
//R7104       EXEC   PGM=P7104P,TIME=&CPU3                            00000580
//STEPLIB     DD     DSNAME=CORDSLIB,DISP=SHR                         00000590
//TAPE01      DD     DSN=*.SORTA.SORTOUT,DISP=(OLD,KEEP)              00000600
//TAPE02      DD     DSN=*.R7103.TAPE04,DISP=(OLD,KEEP)               00000610
//TAPE03      DD     UNIT=2400-3,DISP=(NEW,KEEP),DSN=R710799          00000620
//TAPE04      DD     UNIT=2400-3,DISP=(NEW,KEEP),DSN=R71078B          00000630
//TAPE05      DD     UNIT=2314,SPACE=(TRK,(1200),,CONTIG),          X00000640
//                   DCB=(RECFM=VB,LRECL=2000,BLKSIZE=7000),DISP=(NEW,DELETE)  00000650
//SYSOUT      DD     SYSOUT=A                                         00000660
//SYSABEND    DD     SYSOUT=A                                         00000670
//SYSIN DD           DDNAME=REFCARD                                   00000680
```

Figure 3-20

CATALOGED PROCEDURE (Sheet 2 of 2)

35

```
/*
//R7104.REFCARD DD  *
/*
//R7102.EDITCDS DD  *
//              EXEC R7953C,SERIAL='(003193,003419)',QSERIAL=003397
//              TIME=400
//              (R7953C,PRC,190,40,200,3),'R-HES',MSGLEVEL=1,CLASS=D,    X
```

Figure 3-21

PROCEDURE CALL DECK

36

MEMBER NAME R7953CS1
SORT FIELDS=(001,15,CH,A)   00000010

MEMBER NAME R7953CS2
SORT FIELDS=(005,28,CH,A)   00000010

Figure 3-22

SORT CONTROL PARAMETERS

— 37

CONTROL NUMBER	HASP NO	PART NO	START TIME	JOB SEQUENCE		REQUESTOR	JOB NAME
				JOB 1 OF 1		R-HES	R7953C

JOB CLASS	MAX TAPES	JOB CODE	CLASSIF	PRTY	RUN CODE	EXEC TIME	PRINT TIME	CARDS PCH	FORM NO	COPIES
D	4	R7953C	C	3	PR	190	40	200	3	1

I/O IN	I/O OUT	BPI	FP YES	FP NO	VOL SER	DATA SET NAME	DISP INSTR KEEP	DISP INSTR SCRATCH	DISP INSTR RET	PRINT INSTR TAPRT	PRINT INSTR DEBE	NO CYS/RECORDS
X	☐	N	X	☐	999	R710101	X	☐	I	☐	☐	
X	☐	N	X	☐	999	R710799 1 of 2	X	☐	I	☐	☐	
X	☐	N	X	☐	999	R710799 2 of 2	X	☐	I	☐	☐	
☐	X	N	☐	X		R710101 Final Tran	X	☐	I	☐	☐	
☐	X	N	☐	X		R710799 1 of 2 Unscored	X	☐	I	☐	☐	
☐	X	N	☐	X		R710799 2 of 2 Unscored	X	☐	I	☐	☐	
☐	X	N	☐	X		R7107BB Bayes Input	X	☐	I	☐	☐	
☐	☐		☐	☐			☐	☐		☐	☐	

CONSOLE MESSAGE

OPERATOR ACTION REQUIRED

REMARKS OR SPECIAL INSTRUCTIONS

3 part paper, decollate

BOOKING AND BINDING INSTRUCTIONS

MAC DMA FORM 14, I AUG 70   360/50 COMPUTER OPERATING INSTRUCTIONS

Figure 3-23

SAMPLE RUN REQUEST

38
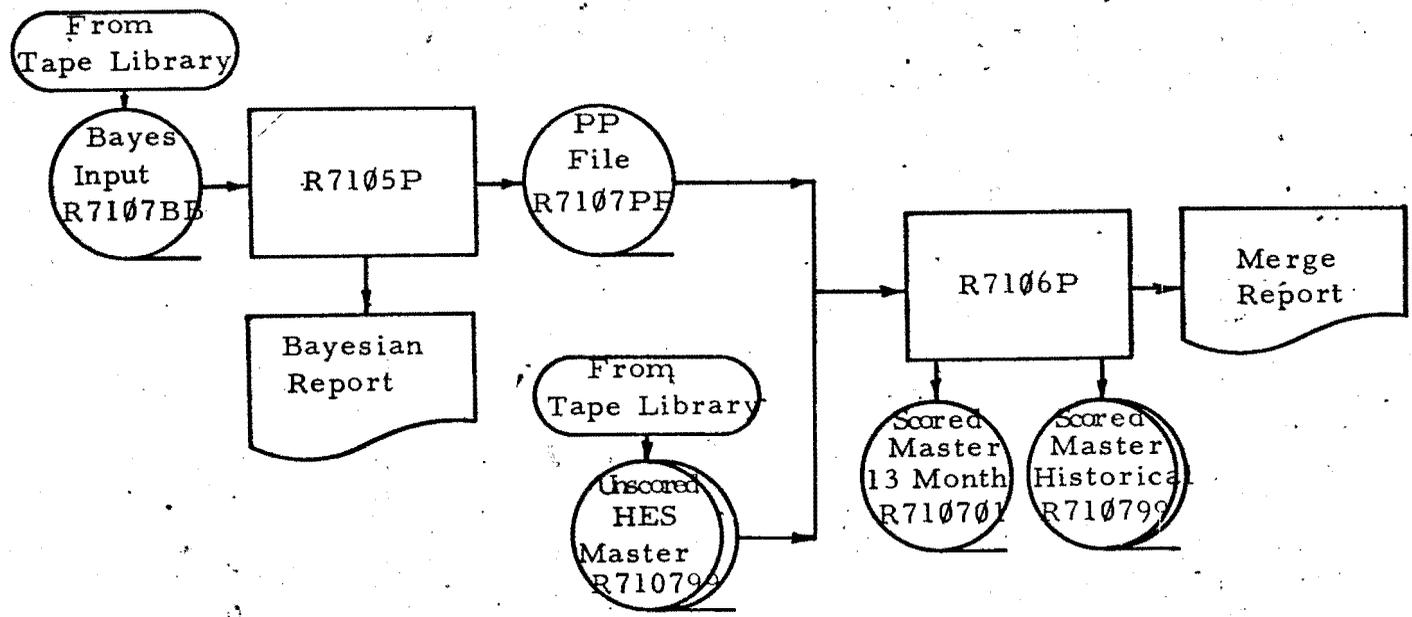
Figure 3-24

R7955C PROCEDURE FLOW

```
MEMBER NAME   R7955C
//R7955C        PROC  R7107BB=999999,R710799=999999,CPU=300,CPU2=100        00000010
//R7105         EXEC  PGM=R7105P,TIME=&CPU                                   00000020
//              NAME=M.S.MAHER,DIV/BR=CORDS-RAD,DAR=R7,DATE=24MAR71          00000030
//              HES BAYESIAN SCORE AND MERGE                                 00000040
//STEPLIB       DD    DSNAME=CORDSLIB,DISP=SHR                               00000050
//TAPE01        DD    UNIT=2400-3,DISP=(OLD,KEEP),DSN=R7107BB,             X00000060
//              VOL=SER=&R7107BB                                             00000070
//TAPE03        DD    UNIT=2400-3,DISP=(NEW,PASS),DSN=R7107PP                00000080
//TAPE04        DD    UNIT=2314,SPACE=(TRK,(500),,CONTIG)                    00000090
//SYSOUT        DD    SYSOUT=A                                               00000100
//SYSABEND      DD    SYSOUT=A                                               00000110
//R7106         EXEC  PGM=R7106P,TIME=&CPU2                                  00000120
//STEPLIB       DD    DSNAME=CORDSLIB,DISP=SHR                               00000130
//TAPE01        DD    UNIT=2400-3,DISP=(OLD,KEEP),DSN=R710799,             X00000140
//              VOL=SER=&R710799                                            00000150
//TAPE02        DD    DSN=*.R7105.TAPE03,DISP=(OLD,KEEP)                     00000160
//TAPE03        DD    UNIT=2400-3,DISP=(NEW,KEEP),DSN=R710799               00000170
//TAPE04        DD    UNIT=2400-3,DISP=(NEW,KEEP),DSN=R710701               00000180
//SYSOUT        DD    SYSOUT=A                                               00000190
//SYSABEND      DD    SYSOUT=A                                               00000200
```

Figure 3-25

CATALOGED PROCEDURE

40

```
/*
//          EXEC R7955C,R710799='(000467,000973)',R7107BB=000541
//          TIME=600
//          (R7955C,PRC,400,40,000,3),'R-HES',MSGLEVEL=1,CLASS=J,     X
```

Figure 3-26

PROCEDURE CALL DECK

41

CONTROL NUMBER	HASP NO	PART NO	START TIME	JOB SEQUENCE		REQUESTOR		JOB NAME	
				JOB 1 OF 1		R-HES		R7955C	

JOB CLASS	MAX TAPES	JOB CODE	CLASSIF	PRTY	RUN CODE	EXEC TIME	PRINT TIME	CARDS PCH	FORM NO	COPIES
J	4	R7955C	C	3	PR	400	40	0	3	1

I/O IN	OUT	BPI	FP YES	NO	VOL SER	DATA SET NAME	DISP INSTR KEEP	SCRATCH	RET	PRINT INSTR TAPRT	DEBE	NO CYS/RECORDS
☒	☐	N	☒	☐	999	R7107BB	☒	☐	I	☐	☐	
☐	☒	N	☐	☒		R7107PP	☒	☐	I	☐	☐	
☒	☐	N	☒	☐	999	R710799 1 of 2 Unscored	☒	☐	I	☐	☐	
☒	☐	N	☒	☐	999	R710799 2 of 2 Unscored	☒	☐	I	☐	☐	
☐	☒	N	☐	☒		R710799 1 of 2 Scored	☒	☐	I	☐	☐	
☐	☒	N	☐	☒		R710799 2 of 2 Scored	☒	☐	I	☐	☐	
☐	☒	N	☐	☒		R710701 13 month	☒	☐	I	☐	☐	
☐	☐		☐	☐			☐	☐		☐	☐	

CONSOLE MESSAGE	OPERATOR ACTION REQUIRED

REMARKS OR SPECIAL INSTRUCTIONS

BOOKING AND BINDING INSTRUCTIONS

3 part paper, decollate

MAC DMA FORM 14, I AUG 70   360/50 COMPUTER OPERATING INSTRUCTIONS

Figure 3-27

SAMPLE RUN REQUEST

42

Figure 3-28

R71Ø7P PROGRAM FLOW

43
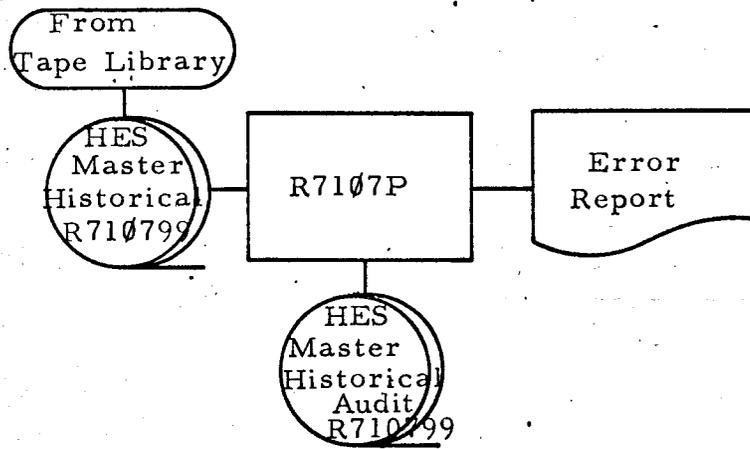
```
//SYSABEND      DD    SYSOUT=A
//SYSOUT        DD    SYSOUT=A
//TAPE02        DD    DSN=R710799,UNIT=2400-3,DISP=(NEW,KEEP)
//                    VOL=SER=(003699,003244)
//TAPE01        DD    DSN=R710799,UNIT=2400-3,DISP=(OLD,KEEP),        X
//R7107         EXEC  PGM=R7107P,TIME=300
//JOBLIB    DD DSNAME=CORDSLIB,DISP=SHR
//                    TIME=200
//                    (R7107,PRC,300,10,000,,),'R-HES',MSGLEVEL=1,CLASS=F,   X
```

Figure 3-29

PROGRAM CALL DECK

44

CONTROL NUMBER	HASP NO	PART NO	START TIME	JOB SEQUENCE		REQUESTOR	JOB NAME
				JOB 1 OF 1		R-HES	R7107

JOB CLASS	MAX TAPES	JOB CODE	CLASSIF	PRTY	RUN CODE	EXEC TIME	PRINT TIME	CARDS PCH	FORM NO	COPIES
F	2	R7107	C	3	PR	300	10	0	1	1

I/O IN	I/O OUT	BPI	FP YES	FP NO	VOL SER	DATA SET NAME	DISP KEEP	DISP SCRATCH	RET	PRINT TAPRT	PRINT DEBE	NO CYS/RECORDS
[X]	[ ]	N	[X]	[ ]	999	R710799 1 of 2	[X]	[ ]	I	[ ]	[ ]	
[X]	[ ]	N	[X]	[ ]	999	R710799 2 of 2	[X]	[ ]	I	[ ]	[ ]	
[ ]	[X]	N	[ ]	[X]		R710799 1 of 2 Audit	[X]	[ ]	I	[ ]	[ ]	
[ ]	[X]	N	[ ]	[X]		R710799 2 of 2 Audit	[X]	[ ]	I	[ ]	[ ]	
[ ]	[ ]		[ ]	[ ]			[ ]	[ ]		[ ]	[ ]	
[ ]	[ ]		[ ]	[ ]			[ ]	[ ]		[ ]	[ ]	
[ ]	[ ]		[ ]	[ ]			[ ]	[ ]		[ ]	[ ]	
[ ]	[ ]		[ ]	[ ]			[ ]	[ ]		[ ]	[ ]	

CONSOLE MESSAGE	OPERATOR ACTION REQUIRED

REMARKS OR SPECIAL INSTRUCTIONS

BOOKING AND BINDING INSTRUCTIONS

MAC DMA FORM 14, I AUG 70   360/50 COMPUTER OPERATING INSTRUCTIONS

Figure 3-30

SAMPLE RUN REQUEST

45

From
Tape Library

HES
13 Month
Master
R71Ø7Ø1

R71Ø8P

Wash
HES Master 800
BPI
R71Ø7Ø1

Figure 3-31

R71Ø8P PROGRAM FLOW

46
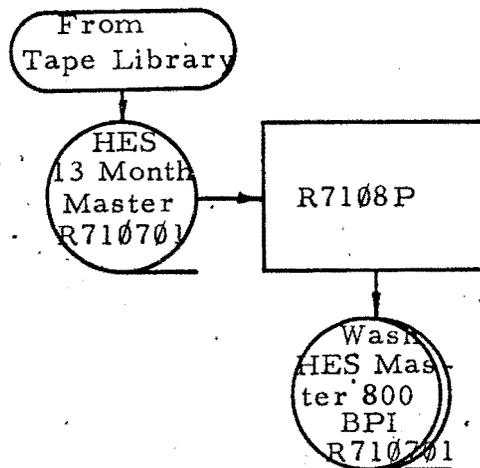
```
//SYSOUT        DD    SYSOUT=A
//      DCB=(RECFM=VB,LRECL=5000,BLKSIZE=5000,DEN=2),LABEL=(,BLP)
//TAPE02    DD DSNAME=R710701,UNIT=9TRK800,DISP=(NEW,PASS),        X
//TAPE01        DD    DSN=R710701,UNIT=2400-3,DISP=SHR,VOL=SER=003756
//S1            EXEC PGM=R7108P,TIME=20
//JOBLIB    DD DSNAME=CORDSLIB,DISP=SHR
//            (R7108P,PRC,45,1),R-HES70,MSGLEVEL=1,CLASS=C,TIME=25
```

Figure 3-32

PROGRAM CALL DECK

47

CONTROL NUMBER	HASP NO	PART NO	START TIME	JOB SEQUENCE	REQUESTOR	JOB NAME
				JOB 1 OF 1	R-HES	R7108

JOB CLASS	MAX TAPES	JOB CODE	CLASSIF	PRTY	RUN CODE	EXEC TIME	PRINT TIME	CARDS PCH	FORM NO	COPIES
C	2	R7108	C	3	PR	45	1	0	1	1

I/O IN	I/O OUT	BPI	FP YES	FP NO	VOL SER	DATA SET NAME	DISP INSTR KEEP	DISP INSTR SCRATCH	RET	PRINT INSTR TAPRT	PRINT INSTR DEBE	NO CYS/RECORDS
X		N	X		999	R710701	X		I			
	X	8		X		R710701	X		I			
	X	8		X		R710701	X		I			

CONSOLE MESSAGE	OPERATOR ACTION REQUIRED

REMARKS OR SPECIAL INSTRUCTIONS

BOOKING AND BINDING INSTRUCTIONS

Use NMCSSC scratch tapes if available.

MAC DMA FORM 14, 1 AUG 70 360/50 COMPUTER OPERATING INSTRUCTIONS

Figure 3-33 .

SAMPLE RUN REQUEST

48

3.16 Analysis File Generation (R7959C). Procedure R7959C is made up of one computer program (R7109P). The procedure generates the HES analysis file, which is input to the analysis subsystem. The program is described in detail in the program maintenance manual. The following figures illustrate various aspects of R7959C:

3.17 Analysis Summary Report (R7960C). Procedure R7960C is made up of one computer program (R7113P). The procedure generates the HES Analysis Summary Report. The program is described in detail in the program maintenance manual. The following figures illustrate various aspects of R7960C:

3.18 Analysis Question Response Report (R7963C). Procedure R7963C is made up of one computer program (R7114P). The procedure generates the HES Analysis Question Response Report. The program is described in detail in the program maintenance manual. The following figures illustrate various aspects of R7963C:

```
/*

  RECORD TYPE=V,LENGTH=(1000,1000,1000,043,073)    VARIABLE HES/70 MASTER SORT
  SORT FIELDS=(005,28,CH,A)
//SYSIN          DD   *
//SORTWK06       DD   UNIT=2314,SPACE=(TRK,(1400),,CONTIG)
//SORTWK05       DD   UNIT=2314,SPACE=(TRK,(1400),,CONTIG)
//SORTWK04       DD   UNIT=2314,SPACE=(TRK,(1400),,CONTIG)
//SORTWK03       DD   UNIT=2314,SPACE=(TRK,(1400),,CONTIG)
//SORTWK02       DD   UNIT=2314,SPACE=(TRK,(1400),,CONTIG)
//SORTWK01       DD   UNIT=2314,SPACE=(TRK,(1400),,CONTIG)
//               DCB=(RECFM=VB,LRECL=2000,BLKSIZE=5000)
//SORTOUT        DD   UNIT=2400-3,DISP=(NEW,PASS),DSN=R710702,          X
//               VOL=SER=003756
//               DCB=(RECFM=VB,LRECL=2000,BLKSIZE=5000),                X
//SORTIN         DD   UNIT=2400-3,DSN=R710701,DISP=(OLD,KEEP),          X
//SYSOUT         DD   SYSOUT=A
//SORTLIB        DD   DSN=SYS1.SORTLIB,DISP=SHR
//SORTA          EXEC PGM=IERRCOOO,PARM='MSG=AP,CORE=90000',TIME=50
//               TIME=120
//               (R79XXX,PRC,050,01,,,,,),R-HES,MSGLEVEL=1,CLASS=C,     X
```

Figure 3-34

USID SORT CALL DECK AND RUN REQUEST (Sheet 1 of 2)

50

CONTROL NUMBER	HASP NO	PART NO	START TIME	JOB SEQUENCE		REQUESTOR		JOB NAME	
				JOB 1 OF 1		R-HES		R79XXX	

JOB CLASS	MAX TAPES	JOB CODE	CLASSIF	PRTY	RUN CODE	EXEC TIME	PRINT TIME	CARDS PCH	FORM NO	COPIES
C	2.	R79XXX	C	3	PR	50	1	0	1	1

I/O		BPI	FP		VOL SER	DATA SET NAME	DISP INSTR			PRINT INSTR			
IN	OUT		YES	NO			KEEP SCRATCH	RET		TAPRT DEBE		NO CYS/RECORDS
☒ ☐		N	☒ ☐		999	R710701	☒ ☐	I		☐ ☐		
☐ ☒		N	☐ ☒			R710702	☒ ☐	I		☐ ☐		
☐ ☐			☐ ☐				☐ ☐			☐ ☐		
☐ ☐			☐ ☐				☐ ☐			☐ ☐		
☐ ☐			☐ ☐				☐ ☐			☐ ☐		
☐ ☐			☐ ☐				☐ ☐			☐ ☐		
☐ ☐			☐ ☐				☐ ☐			☐ ☐		
☐ ☐			☐ ☐				☐ ☐			☐ ☐		

CONSOLE MESSAGE	OPERATOR ACTION REQUIRED

REMARKS OR SPECIAL INSTRUCTIONS

BOOKING AND BINDING INSTRUCTIONS

MACDMA FORM 14, I AUG 70   360/50 COMPUTER OPERATING INSTRUCTIONS

Figure 3-34

USID SORT CALL DECK AND RUN REQUEST (Sheet 2 of 2)

51

```
/*
//COPY.TAPEOUT   DD  VOLUME=
//        FORMAT2=VB,DENSTY=3,PAR2=,CLASS=VARCON
//        OUTPUT=R710701,UNITV='2400-3',SYSTEM=HES70,LABL='(,SL)',      X
//        LAB1='(,SL)',FORMAT1=VB,RECSIZE=5000,BLOCK=5000,DSTY=3,PAR1=, X
//        REELNUM=999999,
//        EXEC R0104C2,INPUT=R710701,UNITI='2400-3',TIME=15,           X
//            (R79XXB,PRC,20,1),R-HES70,MSGLEVEL=1,CLASS=C,TIME=20
```

Figure 3-35

R710701 FILE COPY CALL DECK AND RUN REQUEST (Sheet 1 of 2)

CONTROL NUMBER	HASP NO	PART NO	START TIME	JOB SEQUENCE		REQUESTOR		JOB NAME	
				JOB _1_ OF _1_		R-HES		R79XXB	

JOB CLASS	MAX TAPES	JOB CODE	CLASSIF	PRTY	RUN CODE	EXEC TIME	PRINT TIME	CARDS PCH	FORM NO	COPIES
C	2	R79XXB	C	3	PR	20	1	0	1	1

I/O		BPI	FP		VOL SER	DATA SET NAME	DISP INSTR			PRINT INSTR			
IN	OUT		YES	NO			KEEP SCRATCH	RET	TAPRT	DEBE	NO CYS/RECORDS
☒	☐	N	☒	☐	999	R710701	☒ ☐	I	☐ ☐	
☐	☒	N	☐	☒		R710701 Backup	☒ ☐	I	☐ ☐	
☐	☐		☐	☐			☐ ☐		☐ ☐	
☐	☐		☐	☐			☐ ☐		☐ ☐	
☐	☐		☐	☐			☐ ☐		☐ ☐	
☐	☐		☐	☐			☐ ☐		☐ ☐	
☐	☐		☐	☐			☐ ☐		☐ ☐	
☐	☐		☐	☐			☐ ☐		☐ ☐	

CONSOLE MESSAGE	OPERATOR ACTION REQUIRED

REMARKS OR SPECIAL INSTRUCTIONS

BOOKING AND BINDING INSTRUCTIONS

MAC DMA FORM 14, 1 AUG 70 360/50 COMPUTER OPERATING INSTRUCTIONS

Figure 3-35

R710701 FILE COPY CALL DECK AND RUN REQUEST (Sheet 2 of 2)

```
/*
//COPY.TAPEOUT   DD  VOLUME=
//        FORMAT2=VB,DENSTY=3,PAR2=,CLASS=VARCON
//        OUTPUT=R710702,UNITV='2400-3',SYSTEM=HES70,LABL='(,SL)',     X
//        LAB1='(,SL)',FORMAT1=VB,RECSIZE=5000,BLOCK=5000,DSTY=3,PAR1=,  X
//        REELNUM=999999,
//        EXEC R0104C2,INPUT=R710702,UNITI='2400-3',TIME=15,            X
//        (R79XXC,PRC,20,1),R-HES70,MSGLEVEL=1,CLASS=C,TIME=20
```

Figure 3-36

R710702 FILE COPY CALL DECK AND RUN REQUEST (Sheet 1 of 2)

54

CONTROL NUMBER	HASP NO	PART NO	START TIME	JOB SEQUENCE		REQUESTOR		JOB NAME		
				JOB 1 OF 1		R-HES		R79XXC		

JOB CLASS	MAX TAPES	JOB CODE	CLASSIF	PRTY	RUN CODE	EXEC TIME	PRINT TIME	CARDS PCH	FORM NO	COPIES
C	2	R79XXC	C	3	PR	20	1	0	1	1

I/O		BPI	FP		VOL SER	DATA SET NAME	DISP INSTR		RET	PRINT INSTR		NO CYS/RECORDS
IN	OUT		YES	NO			KEEP	SCRATCH		TAPRT	DEBE	
☒	☐	N	☒	☐	999	R710702	☒	☐	I	☐	☐	
☐	☒	N	☐	☒		R710702 Backup	☒	☐	I	☐	☐	
☐	☐		☐	☐			☐	☐		☐	☐	
☐	☐		☐	☐			☐	☐		☐	☐	
☐	☐		☐	☐			☐	☐		☐	☐	
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☐	☐		☐	☐			☐	☐		☐	☐	
☐	☐		☐	☐			☐	☐		☐	☐	

CONSOLE MESSAGE	OPERATOR ACTION REQUIRED

REMARKS OR SPECIAL INSTRUCTIONS

BOOKING AND BINDING INSTRUCTIONS

MAC DMA FORM 14, 1 AUG 70 360/50 COMPUTER OPERATING INSTRUCTIONS

Figure 3-36

R710702 FILE COPY CALL DECK AND RUN REQUEST (Sheet 2 of 2)

55

```
/*
//COPY.TAPEOUT   DD   VOLUME=
//       FORMAT2=VB,DENSTY=3,PAR2=,CLASS=VARCON
//         OUTPUT=R710799,UNITV='2400-3',SYSTEM=HES70,LABL='(,SL)',       X
//         LAB1='(,SL)',FORMAT1=VB,RECSIZE=5000,BLOCK=5000,DSTY=3,PAR1=,   X
//           REELNUM='(999999,999999)',
//       EXEC R0104C2,INPUT=R710799,UNITI='2400-3',TIME=15,               X
//                   (R79XXA,PRC,20,1),R-HES70,MSGLEVEL=1,CLASS=C,TIME=20
```

Figure 3-37

R71Ø799 FILE COPY CALL DECK AND RUN REQUEST (Sheet 1 of 2)

56

CONTROL NUMBER	HASP NO	PART NO	START TIME	JOB SEQUENCE		REQUESTOR	JOB NAME	
				JOB 1 OF 1		R-HES	R79XXA	

JOB CLASS	MAX TAPES	JOB CODE	CLASSIF	PRTY	RUN CODE	EXEC TIME	PRINT TIME	CARDS PCH	FORM NO	COPIES
C	2	R79XXA	C	3	PR	20	1	0	1	1

I/O IN	OUT	BPI	FP YES	NO	VOL SER	DATA SET NAME	DISP INSTR KEEP SCRATCH	RET	PRINT INSTR TAPRT	DEBE	NO CYS/RECORDS
X	☐	N	X	☐	999	R710799 1 of 2	X ☐	I	☐	☐	
X	☐	N	X	☐	999	R710799 2 of 2	X ☐	I	☐	☐	
☐	X	N	☐	X		R710799 1 of 2 Backup	X ☐	I	☐	☐	
☐	X	N	☐	X		R710799 2 of 2 Backup	X ☐	I	☐	☐	
☐	☐		☐	☐			☐	☐		☐	☐	
☐	☐		☐	☐			☐	☐		☐	☐	
☐	☐		☐	☐			☐	☐		☐	☐	
☐	☐		☐	☐			☐	☐		☐	☐	

CONSOLE MESSAGE	OPERATOR ACTION REQUIRED

REMARKS   OR   SPECIAL INSTRUCTIONS

BOOKING AND BINDING INSTRUCTIONS

MAC DMA FORM 14, 1 AUG 70   360/50 COMPUTER OPERATING INSTRUCTIONS

Figure 3-37

R710799 FILE COPY CALL DECK AND RUN REQUEST (Sheet 2 of 2)

57

```
MEMBER NAME   R0104C2
ALIASES       R0104CV
//COPYV  PROC UNITI='2400-3',LABL=',SL)',DSTY=3,FORMAT1=VB,FORMAT2=VB,   X00000010
//            UNITV=9TRK800,LABL=',BLP)',DENSTY=2,PAR1=,PAR2=,           X00000020
//            CLASS=VARCON,REELNUM=999999                                 00000030
//COPY    EXEC PGM=R0104P                                                 00000040
//*       NAME=O'ROURKE,DIV/BR=CORDS-RAD,PAR=RO                           00000050
//STEPLIB     DD   DSNAME=CORDSLIB,DISP=SHR                               00000060
//TAPEIN      DD   DSNAME=&INPUT,UNIT=&UNITI,DISP=(OLD,KEEP),            X00000070
//            VOLUME=SER=&REELNUM,LABEL=&LABL,                           X00000080
//            DCB=(RECFM=&FORMAT1,LRECL=&RECSIZE,BLKSIZE=&BLOCK,         X00000090
//            DEN=&DSTY,TRTCH=&PAR1)                                      00000100
//TAPEOUT     DD   DSNAME=&OUTPUT,UNIT=&UNITV,DISP=(NEW,PASS),           X00000110
//            VOLUME=SER=&SYSTEM,LABEL=&LABL,                            X00000120
//            DCB=(RECFM=&FORMAT2,LRECL=&RECSIZE,BLKSIZE=&BLOCK,         X00000130
//            DEN=&DENSTY,TRTCH=&PAR2)                                    00000140
//SYSABEND     DD SYSOUT=A                                                00000150
//SYSOUT       DD SYSOUT=A                                                00000160
//VERIFY EXEC PGM=IEBPTPCH                                                00000170
//SYSPRINT  DD   DUMMY                                                    00000180
//SYSUT1    DD   DSNAME=*.COPY.TAPEOUT,DISP=(OLD,KEEP),                  X00000190
//            DCB=*.COPY.TAPEOUT,VOLUME=REF=*.COPY.TAPEOUT                00000200
//SYSUT2    DD   SYSOUT=A                                                 00000210
//SYSIN     DD   DSNAME=SYS1.PARMLIB(&CLASS),DISP=SHR                     00000220
```

Figure 3-38

R0104C2 PROCEDURE LIST

58
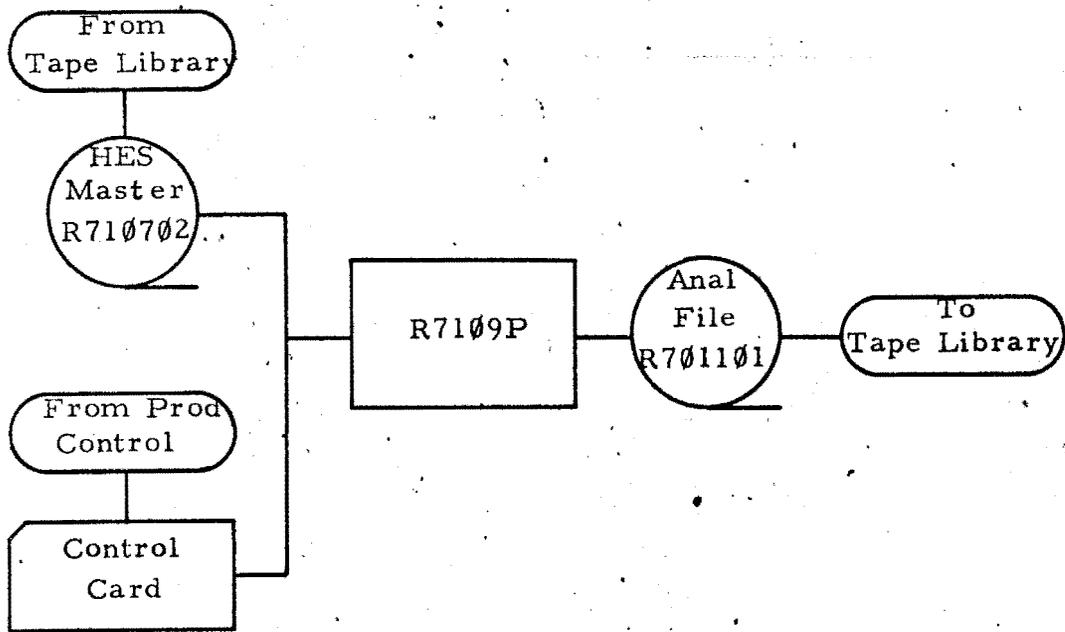
Figure 3-39

R7959C PROCEDURE FLOW

59

```
MACRO NAME  R795SC
R795SC          PROC    SERIAL=999999,CPU=15                                        00000010
R7109           EXEC    PGM=R7109P,TIME=&CPU                                        00000020
*                       NAME=SIMON,DIV/BR=CORDS-RAD,DAR=R7,DATE=10FEB71             00000030
*         WES 70 - CREATES ANALYSIS FILE                                           00000040
STEPLIB         DD      DSNAME=CORDSLIB,DISP=SHR                                    00000050
SYSOUT          DD      SYSOUT=A                                                    00000060
SYSRADFID       DD      SYSOUT=A                                                    00000070
INTAPE          DD      DSN=R710702,UNIT=2400-3,DISP=SHR,VOL=SER=&SERIAL            00000080
OUTTAPE         DD      DSN=R701101,UNIT=2400-3,DISP=(NEW,KEEP)                     00000090
CARDIN          DD      DDNAME=DATECRD                                             00000100
```

Figure 3-40

CATALOGED PROCEDURE

60

```
/*
7111
//R7109.DATECRD .DD *
//          EXEC R7959C,SERIAL=003831,CPU=20
//             (R7959C,PRC,40,10),R-HES,MSGLEVEL=1,CLASS=C
```

Figure 3-41

PROCEDURE CALL DECK (Sheet 1 of 2)

61

Record Name	Base	1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	6	7	8	9	20	1	2	3	4	5	6	7	8	9	30	1	2	3	4	5	6	7	8	9	40

SYSTEM NAME: HES

EFFECTIVE DATE: 1 JAN 71

DATE

Y | Y | M | M

CC 1-4 DATE OF ANALYSIS FILE TO BE GENERATED

Figure 3-41

PROCEDURE CALL DECK (Sheet 2 of 2)

1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	6	7	8	9	20	1	2	3	4	5	6	7	8	9	30	1	2	3	4	5	6	7	8	9	40

CONTROL NUMBER	HASP NO	PART NO	START TIME	JOB SEQUENCE	REQUESTOR	JOB NAME
				JOB 1 OF 1	R-HES	R7959C

JOB CLASS	MAX TAPES	JOB CODE	CLASSIF	PRTY	RUN CODE	EXEC TIME	PRINT TIME	CARDS PCH	FORM NO	COPIES
C	2.	R7959C	C	3	PR	40	10	0	1	1

I/O IN	I/O OUT	BPI	FP YES	FP NO	VOL SER	DATA SET NAME	DISP KEEP	SCRATCH	RET	PRINT TAPRT	DEBE	NO CYB/RECORDS
x	☐	N	x	☐	999	R710702	x	☐	I	☐	☐	
☐	x	N	☐	x		R701101 ANAL FILE	x	☐	I	☐	☐	
☐	☐		☐	☐			☐	☐		☐	☐	
☐	☐		☐	☐			☐	☐		☐	☐	
☐	☐		☐	☐			☐	☐		☐	☐	
☐	☐		☐	☐			☐	☐		☐	☐	
☐	☐		☐	☐			☐	☐		☐	☐	
☐	☐		☐	☐			☐	☐		☐	☐	

CONSOLE MESSAGE	OPERATOR ACTION REQUIRED

REMARKS   OR   SPECIAL   INSTRUCTIONS

BOOKING   AND   BINDING   INSTRUCTIONS

MAC DMA FORM 14, I AUG 70   360/50   COMPUTER   OPERATING   INSTRUCTIONS

Figure 3-42

SAMPLE RUN REQUEST
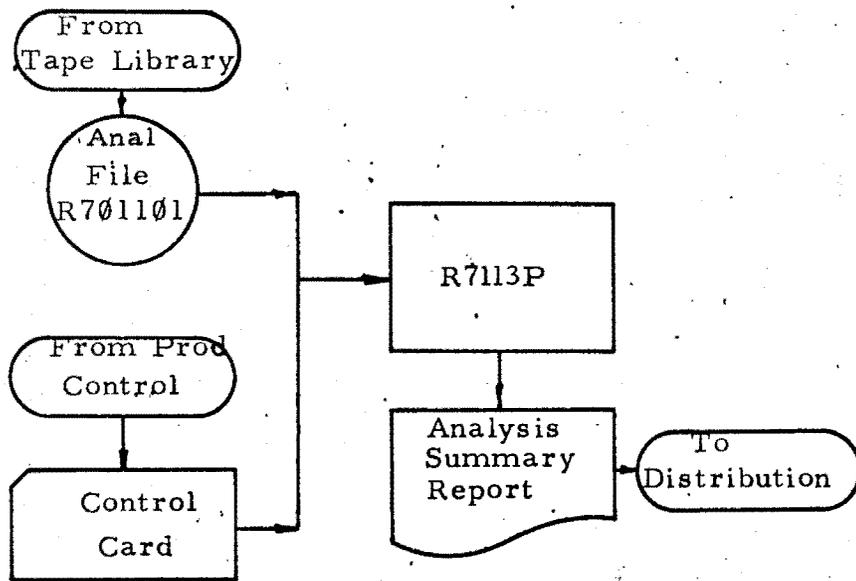
63

Figure 3-43

R796ØC PROCEDURE FLOW

64

```
MEMBER NAME  R7960C
//R7960C        PROC    SERIAL=999999,CPU=6                                        00000010
//R7113         EXEC    PGM=R7113P,TIME=&CPU                                       00000020
//*             NAME=SIMON,DIV/BR=CORDS-RAD,DAR=R7,DATE=10FEB71                    00000030
//*     RES 70 - PRODUCES ANALYSIS SUMMARY REPORT                                 00000040
//STEPLIB       DD      DSNAME=CORDSLIB,DISP=SHR                                   00000050
//SYSOUT        DD      SYSOUT=A                                                   00000060
//SYSABEND      DD      SYSOUT=A                                                   00000070
//PRINTER       DD      SYSOUT=A                                                   00000080
//ANALTAPE      DD      DSN=R701101,UNIT=2400-3,DISP=SHR,VOL=SER=&SERIAL           00000090
//CARDIN        DD      DDNAME=CTLCARD                                            00000100
```

Figure 3-44

CATALOGED PROCEDURE

65

```
/*
10
//R7113.CTLCARD  DD *
//      EXEC R7960C,SERIAL=000404,CPU=15
//            (R7960C,20,20),R-HES,MSGLEVEL=1,CLASS=A,TIME=20
```

Figure 3-45

PROCEDURE CALL DECK (Sheet 1 of 2)

SYSTEM NAME: HES   EFFECTIVE DATE: 1 JAN 71

Record Name	Base	1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	6	7	8	9	20	1	2	3	4	5	6	7	8	9	30	1	2	3	4	5	6	7	8	9	40
CARD 1		9	9																																							

CC 1 = 0   PRINT ALL PROV   CC 2 = 0   PRINT HAMLET AND NON HAMLET POPULATION
CC 1 = 1   PRINT ALL DIST   CC 2 = 1   PRINT HAMLET POPULATION
CC 1 = 3   PRINT USID ON CARD 2   CC 2 = 2   PRINT VILLAGE POPULATION

Record Name	Base	1	2	3	4	5	6	7	8	9	10	...
CARD 2 USED IF CC1 IN CARD 1 = 3		C	P	P								

(USID above columns 1-3)

CC 1-3   PROVINCE TO BE PRINTED

1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	6	7	8	9	20	1	2	3	4	5	6	7	8	9	30	1	2	3	4	5	6	7	8	9	40

CONTROL NUMBER	HASP NO	PART NO	START TIME	JOB SEQUENCE		REQUESTOR		JOB NAME		
				JOB 1 OF 1		R-HES		R7960C		

JOB CLASS	MAX TAPES	JOB CODE	CLASSIF	PRTY	RUN CODE	EXEC TIME	PRINT TIME	CARDS PCH	FORM NO	COPIES
B	1	R7960C	C	3	PR	20	20	0	1	1

I/O		BPI	FP		VOL SER	DATA SET NAME	DISP INSTR			PRINT INSTR			
IN	OUT		YES	NO			KEEP SCRATCH		RET	TAPRT	DEBE	NO CYS/RECORDS
☒	☐	N	☒	☐	999	R701101	☒	☐	I	☐	☐	
☐	☐		☐	☐			☐	☐		☐	☐	
☐	☐		☐	☐			☐	☐		☐	☐	
☐	☐		☐	☐			☐	☐		☐	☐	
☐	☐		☐	☐			☐	☐		☐	☐	
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☐	☐		☐	☐			☐	☐		☐	☐	
☐	☐		☐	☐			☐	☐		☐	☐	

CONSOLE MESSAGE	OPERATOR ACTION REQUIRED

REMARKS OR SPECIAL INSTRUCTIONS

BOOKING AND BINDING INSTRUCTIONS

MAC DMA FORM 14, I AUG 70   360/50 COMPUTER OPERATING INSTRUCTIONS

Figure 3-46

SAMPLE RUN REQUEST

68
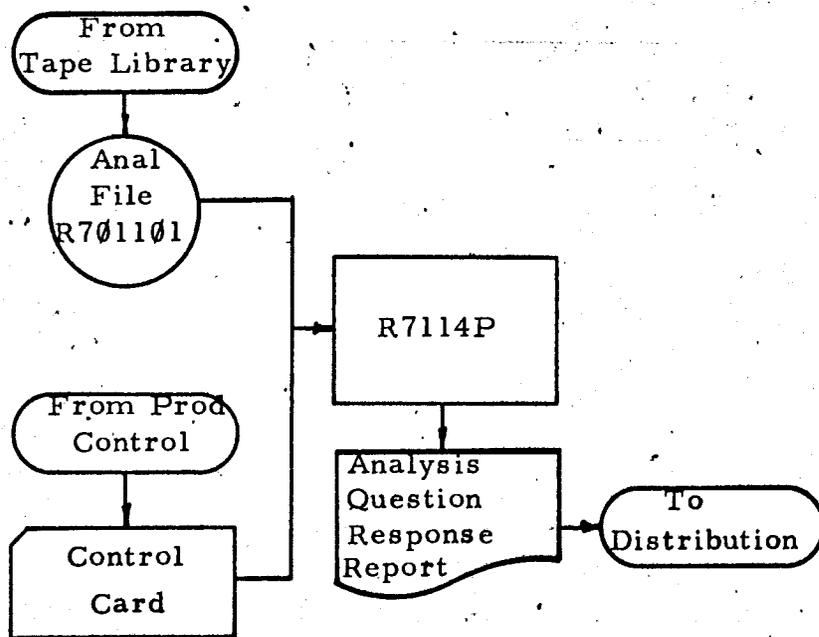
Figure 3-47

R7963C PROCEDURE FLOW

NARA Reference Copy

```
MEMBER NAME   R7963C
//R7963C      PROC  SERIAL=999999,CPU=20                                    00000010
//R7114       EXEC  PGM=R7114P,TIME=&CPU                                    00000020
//*                 NAME=SIMON,DIV/BR=CORDS-RAD,DAR=R7,DATE=10FEB71         00000030
//*   SEC 70 - PRODUCES ANALYSIS QUESTION RESPONSE REPORT                   00000040
//STEPLIB  ,   DD    DSNAME=CORDSLIB,DISP=SHR                               00000050
//SYSOUT       DD    SYSOUT=A                                               00000060
//SYSABEND     DD    SYSOUT=A                                               00000070
//PRINTER      DD    SYSOUT=A                                               00000080
//AMALTAPE     DD    DSN=R701101,UNIT=2400-3,DISP=SHR,VOL=SER=&SERIAL       00000090
//CARDIN       DD    DDNAME=CTLCARD                                         00000100
```

Figure 3-48

CATALOGED PROCEDURE

70

```
 /*
 10
//R7114.CTLCARD DD *
//          EXEC R7963C,SERIAL=000725,CPU=60
//          TIME=60
//             (R7963C,PRC,60,90,,3,1),R-HES,MSGLEVEL=1,CLASS=B,          X
```

Figure 3-49

PROCEDURE CALL DECK (Sheet 1 of 2)

71

Record Name	Base	1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	6	7	8	9	20	1	2	3	4	5	6	7	8	9	30	1	2	3	4	5	6	7	8	9	40

SYSTEM NAME: HES   EFFECTIVE DATE: 1 JAN 71

START DIST.

STOP DIST.

0 0   N N N N N   N N N N N

CC1 = 0   PRINT ALL PROVINCES
CC1 = 1   PRINT ALL DISTRICTS

Figure 3-49

PROCEDURE CALL DECK (Sheet 2 of 2)

CONTROL NUMBER	HASP NO	PART NO	START TIME	JOB SEQUENCE		REQUESTOR	JOB NAME
				JOB 1 OF 1		R-HES	R7963C

JOB CLASS	MAX TAPES	JOB CODE	CLASSIF	PRTY	RUN CODE	EXEC TIME	PRINT TIME	CARDS PCH	FORM NO	COPIES
B	1	R7963C	C	3	PR	60	90	0	*	*

I/O IN	OUT	BPI	FP YES	NO	VOL SER	DATA SET NAME	DISP INSTR KEEP	SCRATCH	RET	PRINT INSTR TAPRT	DEBE	NO CYS/RECORDS
X	☐	N	X	☐	999	R701101	X	☐	I	☐	☐	
☐	☐		☐	☐			☐	☐		☐	☐	
☐	☐		☐	☐			☐	☐		☐	☐	
☐	☐		☐	☐			☐	☐		☐	☐	
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☐	☐		☐	☐			☐	☐		☐	☐	

CONSOLE MESSAGE	OPERATOR ACTION REQUIRED

REMARKS OR SPECIAL INSTRUCTIONS

BOOKING AND BINDING INSTRUCTIONS

* SEE DISTRIBUTION

MAC DMA FORM 14, 1 AUG 70 360/50 COMPUTER OPERATING INSTRUCTIONS

Figure 3-50

SAMPLE RUN REQUEST

73

3.19 Analysis Information Report (R7968C). Procedure R7968C is made up of one computer program (R7115P). The procedure generates the HES Analysis Information Report. The program is described in detail in the program maintenance manual. The following illustrations describe various aspects of R7968C:

Figure 3-51	R7968C Procedure Flow
Figure 3-52	Cataloged Procedure
Figure 3-53	Procedure Call Deck
Figure 3-54	Sample Run Sheet

3.20 Gazetteer File Generation (R7973C). Procedure R7973C is made up of one utility routine (IEHPROGM) and one computer program (R7119P). The procedure will scratch the previous month's gazetteer file that resides on the pack (111111) and generate a new file. A tape file can be generated by using a copy utility. Program (R7119P) is described in detail in the program maintenance manual. The following illustrations describe various aspects of R7973C:

Figure 3-55	R7973C Procedure Flow
Figure 3-56	Cataloged Procedure List - IEHPROGM Control Card
Figure 3-57	Procedure Call Deck
Figure 3-58	Sample Run Sheet

3.21 Gazetteer Report (R7974C). Procedure R7974C is made up of one computer program (R7120P) and one sort step. The sort step and computer program are linked together to produce the gazetteer reports. The program is described in detail in the program maintenance manual. The following illustrations describe various aspects of R7974C:

Figure 3-59	R7974C Procedure Flow
Figure 3-60	Cataloged Procedure List and Sort Options Cards
Figure 3-61	Procedure Call Deck
Figure 3-62	Sample Run Sheet

3.22 Information Report (R7966C). Procedure R7966C is made up of one computer program (R7118P). The procedure produces the various HES information reports. The program is described in detail in the program maintenance manual. The following illustrations describe various aspects of R7966C:

Figure 3-63	R7966C Procedure Flow
Figure 3-64	Cataloged Procedure List
Figure 3-65	Procedure Call Deck
Figure 3-66	Sample Run Sheet

Figure 3-51

R7968C PROCEDURE FLOW

75
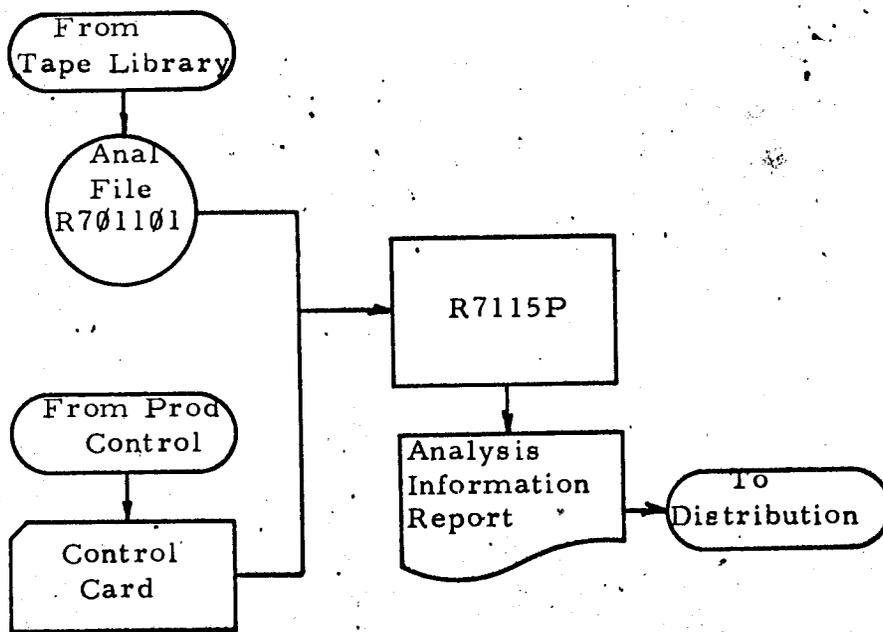
```
MEMBER NAME  R7968C
//R7968C        PROC    SERIAL=999999,CPU=10                              00000010
//R7115         EXEC    PGM=R7115P,TIME=&CPU                              00000020
//*             NAME=SIMON,DIV/BR=CORDS-RAD,DAR=R7,DATE=10FEB71           00000030
//*   THIS 70 - PRODUCES ANALYSIS INFORMATION REPORT                     00000040
//STEPLIB       DD      DSNAME=CORDSLIB,DISP=SHR                          00000050
//SYSOUT        DD      SYSOUT=A                                          00000060
//SYSABEND      DD      SYSOUT=A                                          00000070
//PRINTER       DD      SYSOUT=A                                          00000080
//ANALTAPE      DD      DSNAME=R701101,UNIT=2400-3,DISP=(OLD,KEEP),      X00000090
//              VOL=SER=&SERIAL                                           00000100
//CARDIN        DD      DDNAME=CTLCARD                                    00000110
```

Figure 3-52

CATALOGED PROCEDURE

76

```
/*
0
//R7115.CTLCARD.DD *
//          EXEC   R7968C,SERIAL=003187
//                 (R7968C,PRC,8,55,,1),R-HES,MSGLEVEL=1,CLASS=E
```

Figure 3-53

PROCEDURE CALL DECK (Sheet 1 of 2)

RECORD LAYOUT FORM	ANALYSIS INFORMATION REPORT CONTROL CARDS																					SHEET		OF		SHEETS											
SYSTEM NAME:																							EFFECTIVE DATE:														

Record Name	Base	1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	6	7	8	9	20	1	2	3	4	5	6	7	8	9	30	1	2	3	4	5	6	7	8	9	40
CARD 1		1																																							

CC 1 = 0   PRINT ALL USID
CC 1 = 1   PRINT USIDS IN CARD 2

		START USID					STOP USID											

CARD 2
USED IF CC 1 IN

CARD 1 = '1'

N | N | N | N | N | N | N | N | N | N

Figure 3-53

PROCEDURE CALL DECK (Sheet 2 of 2)

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 20 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 30 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 40 |

CONTROL NUMBER	HASP NO	PART NO	START TIME	JOB SEQUENCE		REQUESTOR		JOB NAME	
				JOB _1_ OF _1_		R-HES		R7968C	

JOB CLASS	MAX TAPES	JOB CODE	CLASSIF	PRTY	RUN CODE	EXEC TIME	PRINT TIME	CARDS PCH	FORM NO	COPIES
E	1	R7968C	C	3	PR	8	55	0	*	*

I/O		BPI	FP		VOL SER	DATA SET NAME	DISP INSTR			PRINT INSTR			
IN	OUT		YES	NO			KEEP	SCRATCH	RET	TAPRT	DEBE	NO CYL RECORDS	
☒	☐	N	☒	☐	999	R701101	☒	☐	I	☐	☐		
☐	☐		☐	☐			☐	☐		☐	☐		
☐	☐		☐	☐			☐	☐		☐	☐		
☐	☐		☐	☐			☐	☐		☐	☐		
☐	☐		☐	☐			☐	☐		☐	☐		
☐	☐		☐	☐			☐	☐		☐	☐		
☐	☐		☐	☐			☐	☐		☐	☐		
☐	☐		☐	☐			☐	☐		☐	☐		

CONSOLE MESSAGE	OPERATOR ACTION REQUIRED

REMARKS OR SPECIAL INSTRUCTIONS

BOOKING AND BINDING INSTRUCTIONS

* SEE DISTRIBUTION

MAC DMA FORM 14, 1 AUG 70 360/50 COMPUTER OPERATING INSTRUCTIONS

Figure 3-54

SAMPLE RUN REQUEST
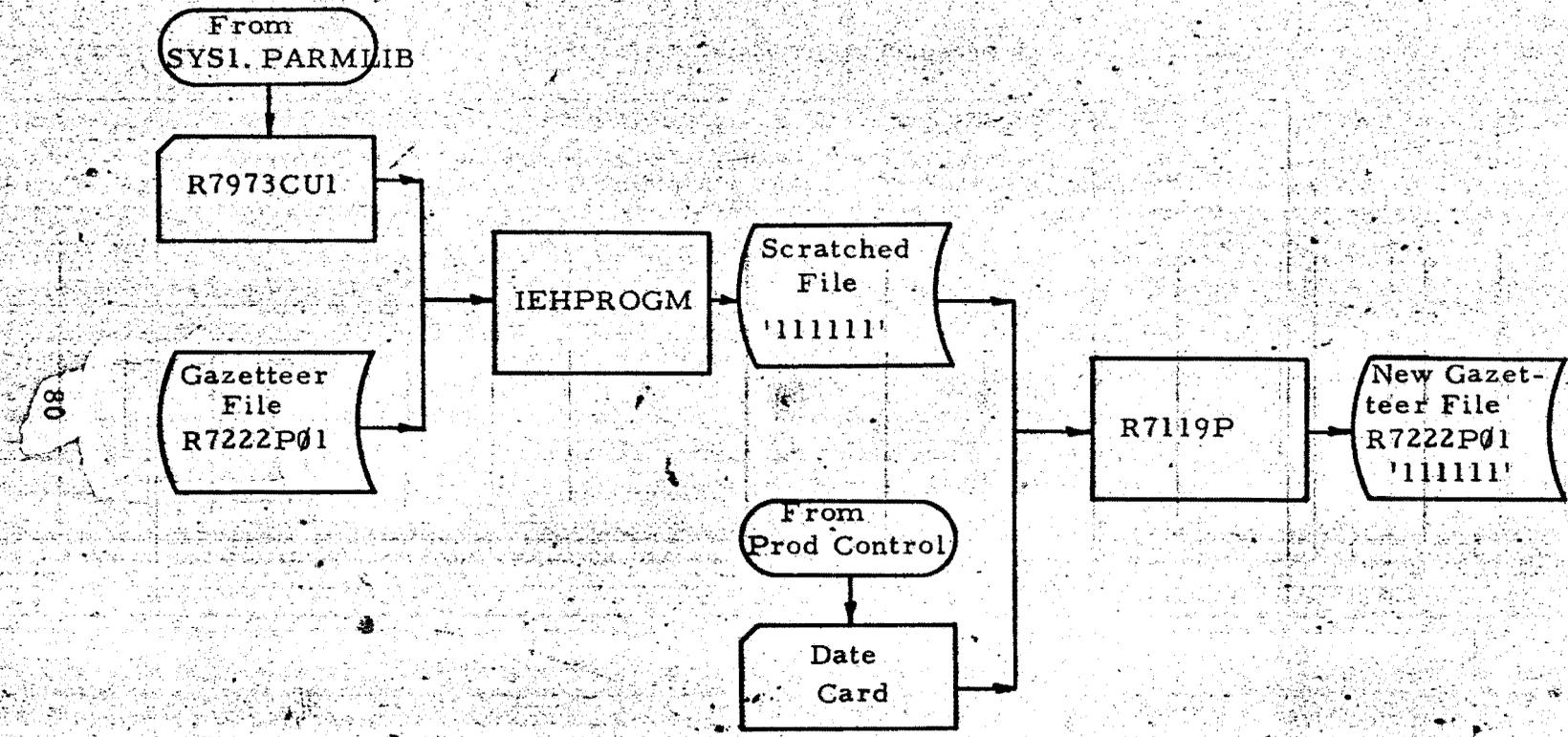
79

Figure 3-55

R7973C PROCEDURE FLOW

```
MEMBER NAME   R7973C.
//R7973C        PROC   SERIAL=999999;                                    00000010
//STEP1    EXEC  PGM=IEHPROGM                                            00000020
//*           NAME=SIMON,DIV/BR=CORDS-RAD,DAR=R7,DATE=10FEB71            00000030
//*    HES 70 - CREATES GAZETTEER TAPE FILE                             00000040
//SYSPRINT DD   SYSOUT=A                                                 00000050
//DD1      DD   UNIT=2314,VOL=SER=$¥$⊅#¥,DISP=SHR                        00000060
//SYSIN    DD   DSN=SYS1.PARMLIB(R7973CU1),DISP=SHR                      00000070
//R7119    EXEC  PGM=R7119P                                             00000080
//STEPLIB  DD    DSNAME=CORDSLIB,DISP=SHR                                00000090
//SYSABEND DD    SYSOUT=A                                                00000100
//SYSOUT   DD    SYSOUT=A                                                00000110
//HESBASIC DD    DSNAME=R710702,UNIT=2400-3,DISP=(OLD,KEEP,KEEP),   X00000120
/            VOL=SER=&SERIAL                                            00000130
//GAZPFILE DD   DSN=R7222P01,UNIT=2314,DISP=(,KEEP),VOL=SER=$¥$⊅#¥,      00000140
/            SPACE=(TRK,(400,10),RLSE),LABEL=EXPDT=99350                00000150
//SYSIN    DD    DDNAME=CTLCARD                                          00000160
```

```
MEMBER NAME   R7973CU1
 SCRATCH DSNAME=R7222P01,VOL=2314=$¥$⊅#¥,PURGE                           00000010
```

Figure 3-56

CATALOGED PROCEDURE LIST -- IEHPROGM CONTROL CARD

/*

//R7119.CTLCARD DD *

//S1   EXEC R7973C,SERIAL=003831

//   (R7973C,PRC,15,01),R-HES,MSGLEVEL=1,CLASS=B

Figure 3-57

PROCEDURE CALL DECK (Sheet 1 of 2)

82

Record Name	Base	1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	6	7	8	9	20	1	2	3	4	5	6	7	8	9	30	1	2	3	4	5	6	7	8	9	40

SYSTEM NAME: HES **EFFECTIVE DATE:** 1 JAN 71

DATE

Y Y M M

R 7 2 2 2

CC 1-4 DATE OF GAZETTEER FILE
CC 5-75 BLANK
CC 76-80 'R7222'

Figure 3-57

PROCEDURE CALL DECK (Sheet 2 of 2)

1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	6	7	8	9	20	1	2	3	4	5	6	7	8	9	30	1	2	3	4	5	6	7	8	9	40

CONTROL NUMBER	HASP NO	PART NO	START TIME	JOB SEQUENCE		REQUESTOR		JOB NAME	
				JOB 1 OF 1		R-HES		R7973C	

JOB CLASS	MAX TAPES	JOB CODE	CLASSIF	PRTY	RUN CODE	EXEC TIME	PRINT TIME	CARDS PCH	FORM NO	COPIES
B	1	R7973C	C	3	PR	15	01	0	1	1

I/O		BPI	FP		VOL SER	DATA SET NAME	DISP INSTR			PRINT INSTR		
IN	OUT		YES	NO			KEEP SCRATCH	RET	TAPRT	DEBE	NO CYS/RECORDS	
☒	☐	N	☒	☐	999	R710702	☒ ☐	I	☐ ☐		
☐	☐		☐	☐			☐ ☐		☐ ☐		
☐	☐		☐	☐			☐ ☐		☐ ☐		
☐	☐		☐	☐			☐ ☐		☐ ☐		
☐	☐		☐	☐			☐ ☐		☐ ☐		
☐	☐		☐	☐			☐ ☐		☐ ☐		
☐	☐		☐	☐			☐ ☐		☐ ☐		
☐	☐		☐	☐			☐ ☐		☐ ☐		

CONSOLE MESSAGE	OPERATOR ACTION REQUIRED

REMARKS OR SPECIAL INSTRUCTIONS

BOOKING AND BINDING INSTRUCTIONS

MAC DMA FORM 14, 1 AUG 70 360/50 COMPUTER OPERATING INSTRUCTIONS

Figure 3-58

SAMPLE RUN REQUEST

84

From
SYS1. PARMLIB

Sort Con-
trol Card

R7222PØ1
Unsorted
GAZRFILE
'111111'

Sort

R7222PØ1
Sorted
GAZRFILE
'111111'

R712ØP

From Prod
Control

Control
Card

Gazetteer
Report

To
Distribution

Figure 3-59

R7974C PROCEDURE FLOW

85
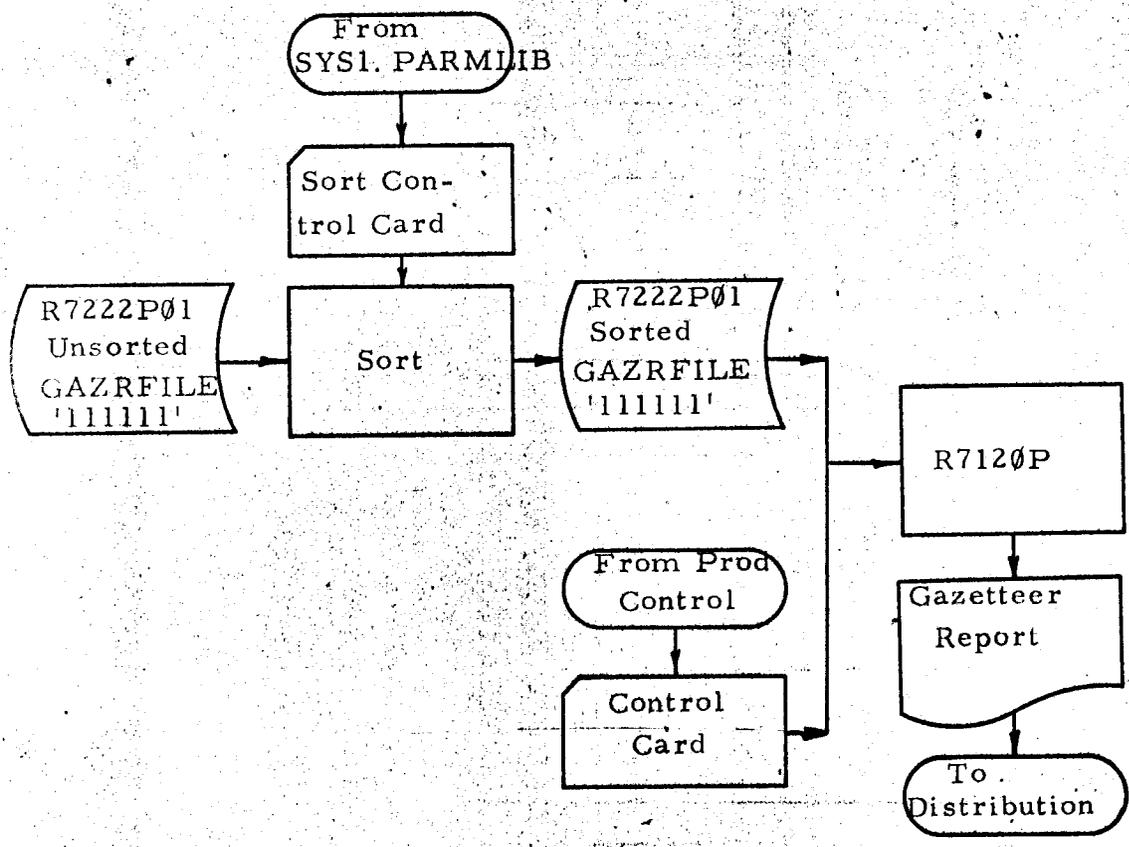
```
MEMBER NAME  R7974C
'/R7974C   PROC  OPTION=R7974CS1                                          00000010
'/SR R7222     EXEC   PGM=IERRCOOO,PARM='MSG=AP'                          00000020
'/*            NAME=SIMON,DIV/BR=CORDS-RAD,DAR=R7,DATE=10FEB71            00000030
'/*    HES 70 - PRODUCES GAZETTEER REPORT                                00000040
'/SORTLIB    DD   DSNAME=SYS1,SORTLIB,DISP=SHR                           00000050
'/SYSOUT     DD   SYSOUT=A                                               00000060
'/SORTIN    DD  DSN=R7222P01,DISP=SHR,UNIT=2314,VOL=SER=||||||,          00000070
'/          DCB=(RECFM=FB,LRECL=150,BLKSIZE=3000)                        00000080
'/SORTOUT   DD  UNIT=SYSDA,DISP=(,PASS),DCB=* SORTIN,                   X00000090
'/          SPACE=(TRK,(500,20),RLSE)                                    00000100
'/SORTWK01    DD   UNIT=SYSDA,SPACE=(TRK,(500,20),,CONTIG)               00000110
'/SORTWK02    DD   UNIT=SYSDA,SPACE=(TRK,(500,20),,CONTIG)               00000120
'/SORTWK03    DD   UNIT=SYSDA,SPACE=(TRK,(500,20),,CONTIG)               00000130
'/SORTWK04    DD   UNIT=SYSDA,SPACE=(TRK,(500,20),,CONTIG)               00000140
'/SORTWK05    DD   UNIT=SYSDA,SPACE=(TRK,(500,20),,CONTIG)               00000150
'/SORTWK06    DD   UNIT=SYSDA,SPACE=(TRK,(500,20),,CONTIG)               00000160
'/SYSIN     DD   DSN=SYS1,PARMLIB(&OPTION),DISP=SHR                      00000170
'/R7120     EXEC  PGM=R7120P                                             00000180
'/STEPLIB    DD   DSNAME=CORDSLIB,DISP=SHR                               00000190
'/SYSOUT     DD   SYSOUT=A                                               00000200
'/SYSABEND   DD   SYSOUT=A                                               00000210
'/PRINTER    DB   SYSOUT=A                                               00000220
'/GAZRFILE   DD   DSN=*,SRTR7222,SORTOUT,DISP=(OLD,DELETE)               00000230
'/SYSIN     DD   DDNAME=CTLCARD                                          00000240
```

Figure 3-60

CATALOGED PROCEDURE LIST AND SORT OPTIONS CARDS (Sheet 1 of 2)

86

MEMBER NAME   R7974CS1
  SORT FIELDS=(1,9,CH,A)   0000001C

MEMBER NAME   R7974CS2
  SORT FIELDS=(1,3,CH,A,118,9,CH,A)   0000001O

MEMBER NAME   R7974CS3
  SORT FIELDS=(1,1,CH,A,10,80,CH,A)   00000010

MEMBER NAME   R7974CS4
  SORT FIELDS=(1,3,CH,A,70,20,CH,A)   00000010

NAME   R7974CS5
  FIELDS=(1,3,CH,A,50,20,CH,A)   0000001C

Figure 3-60

CATALOGED PROCEDURE LIST AND SORT OPTIONS CARDS (Sheet 2 of 2)

87

```
/*
ALL ALPHA 30 NDV 71                                        R7223
//R7120.CTLCARD  DD    *
//          EXEC   R7974C,OPTION=R7974CS3
//          (R7974C,PRU,15,100,,,,,),R-HES,MSGLEVEL=1,CLASS=B
```

Figure 3-61

PROCEDURE CALL DECK (Sheet 1 of 2)

88

SYSTEM NAME:			HES																		EFFECTIVE DATE: 1 JAN 71																			
Record Name	Base	1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	6	7	8	9	20	1	2	3	4	5	6	7	8	9	30	1	2	3	4	5	6	7	8	9	40

LEVEL   SEQUENCE   AS OF DATE

H A M   U S I D   D D   M M M   Y Y

R 7 2 2 3

CC 1-3   'VIL' SELECT VILLAGES ONLY
          'HAM' SELECT HAMLETS ONLY
          'ALL' SELECT ALL REPORTS

CC 4 = BLANK
CC 5-9 'USID'   SEQUENCE
      'ALPHA'   "
      'HAM'   "
      'VILL'   "

      'AD ID'
CC 10 = BLANK
CC 11 - 19 AS OF DATE
CC 20 - 75 = BLANK

CC 76-80 = 'R7223'

Figure 3-61

PROCEDURE CALL DECK (Sheet 2 of 2)

1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	6	7	8	9	20	1	2	3	4	5	6	7	8	9	30	1	2	3	4	5	6	7	8	9	40

McCORMS Form 28, 12 Apr 72   Replaces edition of 12 Aug 69, which is obsolete

89

CONTROL NUMBER	HASP NO	PART NO	START TIME	JOB SEQUENCE		REQUESTOR	JOB NAME
				JOB 1 OF 1		R-HES	R7974C

JOB CLASS	MAX TAPES	JOB CODE	CLASSIF	PRTY	RUN CODE	EXEC TIME	PRINT TIME	CARDS PCH	FORM NO	COPIES
B	0	R7974C	U	3	PR	15	100	0	*	*

I/O IN OUT	BPI	FP YES NO	VOL SER	DATA SET NAME	DISP INSTR KEEP SCRATCH RET	PRINT INSTR TAPRT DEBE	NO CYS/RECORDS
☐☐		☐☐		No	☐ ☐	☐☐	
☐☐		☐☐		TAPES	☐ ☐	☐☐	
☐☐		☐☐			☐ ☐	☐☐	
☐☐		☐☐			☐ ☐	☐☐	
☐☐		☐☐			☐ ☐	☐☐	
☐☐		☐☐			☐ ☐	☐☐	
☐☐		☐☐			☐ ☐	☐☐	
☐☐		☐☐			☐ ☐	☐☐	

CONSOLE MESSAGE	OPERATOR ACTION REQUIRED

REMARKS OR SPECIAL INSTRUCTIONS

BOOKING AND BINDING INSTRUCTIONS

* SEE DISTRIBUTION

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Figure 3-62

SAMPLE RUN REQUEST
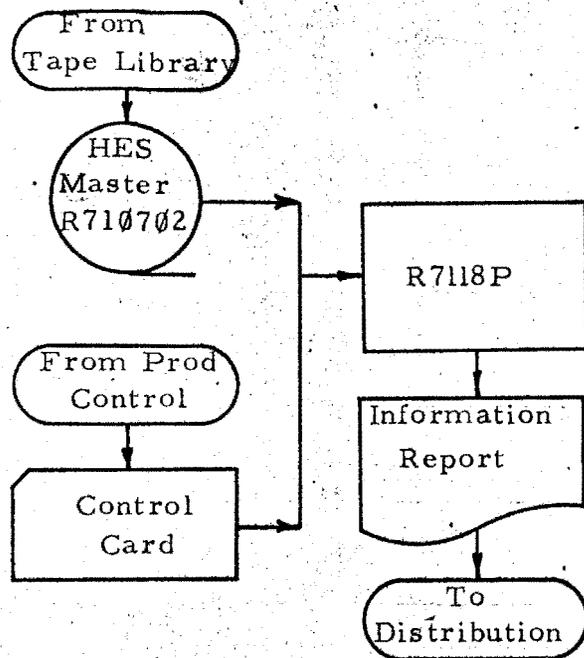
90

```
        ╭─────────────╮
        │    From     │
        │ Tape Library│
        ╰──────┬──────╯
               │
               ▼
          ╭────────╮
          │  HES   │
          │ Master ├──────────┐
          │R710702 │          │
          ╰────────╯          │        ┌──────────────┐
                              ├───────▶│              │
                              │        │   R7118P     │
        ╭─────────────╮       │        │              │
        │  From Prod  │       │        └──────┬───────┘
        │   Control   │       │               │
        ╰──────┬──────╯       │               ▼
               │              │        ┌──────────────┐
               ▼              │        │ Information   │
        ┌─────────────┐       │        │   Report      │
        │   Control   ├───────┘        └──────┬───────┘
        │    Card     │                       │
        └─────────────┘                       ▼
                                      ╭────────────────╮
                                      │      To        │
                                      │  Distribution  │
                                      ╰────────────────╯
```

Figure 3-63

R7966C PROCEDURE FLOW

91

```
 MBER NAME  R7566C
//R7566C      PROC    SERIAL=999999,CPU=20                                    00000010
//R7115       EXEC    PGM=R7118P,TIME=&CPU                                     00000020
//                    NAME=SIMON,DIV/BR=CORDS-RAD,CAR=R7,DATE=10FEB71          00000030
//*    H S 70 - PRODUCES INFORMATION REPORT                                   00000040
//STEPL B      DD     DSNAME=CORDSLIB,DISP=SHR                                 00000050
//SYSOUT       DD     SYSOUT=A                                                 00000060
//SYS BEND     DD     SYSOUT=A                                                 00000070
//NH SMSTR     DD     DSNAME=R710702,UNIT=2400-3,DISP=(OLD,KEEP),            X00000080
//                    VOL=SER=&SERIAL                                          00000090
//PR NTOUT     DD     SYSOUT=A                                                 00000100
//C RD         DD     DDNAME=CONCARD                                           00000110
```

Figure 3-64

CATALOGED PROCEDURE LIST

92

```
/*
R72066                    710930 SEP 71D
//R7118.CONCARD  DD  *
//          EXEC  R7966C,CPU=150,SERIAL=003692
//      TIME=150
//          (R7966C,PRC,360,400,,,,,,),R-HES,MSGLEVEL=1,CLASS=B,        X
```

Figure 3-65

PROCEDURE CALL DECK (Sheet 1 of 3)

93

| SYSTEM NAME: | HES | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | EFFECTIVE DATE: 1 JAN 71 |

Record Name	Base	1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	6	7	8	9	20	1	2	3	4	5	6	7	8	9	30	1	2	3	4	5	6	7	8	9	40

Headers over the data: OPTION (col 6), START USID (cols 7–15), STOP USID (cols 16–24), DATE (cols 25–30), AS / OF DATE (cols 31–39), SUMMARY (col 40)

| | | R | 7 | 2 | 0 | 6 | | C | P | P | D | D | V | V | H | H | C | P | P | D | D | V | V | H | H | Y | Y | M | M | D | D | | M | M | M | | Y | Y | | | 1 |

Figure 3-65

PROCEDURE CALL DECK (Sheet 2 of 3)

1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	6	7	8	9	20	1	2	3	4	5	6	7	8	9	30	1	2	3	4	5	6	7	8	9	40

PROGRAM CONTROL CARD

CARD COL.	VALID PARAMETERS	DESCRIPTION
1-5	'R7206'	Card ID
6	1, 2, 3, 4, 5, 6, or b	Print option 1 = Hamlets and villages I Corps 2 = Hamlets and villages II Corps 3 = Hamlets and villages III Corps 4 = Hamlets and villages IV Corps 5 = Villages only - RVN 6 = Hamlets and villages - RVN b = From USID, to USID used
7-15	CPPDDVVHH	From USID
16-24	CPPDDVVHH	To USID
25-28	YYMM	Desired date
29-37	DD MMM YY	As of date
38	'P', 'D', or 'b'	Summary page option 'P' = Province level, up 'D' = District level up 'b' = No summary pages
39-80	Blank	Not used

Figure 3-65

PROCEDURE CALL DECK (Sheet 3 of 3)

95

CONTROL NUMBER	HASP NO	PART NO	START TIME	JOB SEQUENCE		REQUESTOR	JOB NAME	
				JOB 1 OF 1		R-HES	R7966C	

JOB CLASS	MAX TAPES	JOB CODE	CLASSIF	PRTY	RUN CODE	EXEC TIME	PRINT TIME	CARDS PCH	FORM NO	COPIES
B	1	R7966C	C	3	PR	360	400	0	*	*

I/O		BPI	FP		VOL SER	DATA SET NAME	DISP INSTR			PRINT INSTR			NO CYS/RECORDS
IN	OUT		YES	NO			KEEP SCRATCH	RET		TAPRT	DEBE		
X	☐	N	X	☐	999	R710702	X ☐	I		☐ ☐			
☐	☐		☐	☐			☐ ☐			☐ ☐			
☐	☐		☐	☐			☐ ☐			☐ ☐			
☐	☐		☐	☐			☐ ☐			☐ ☐			
☐	☐		☐	☐			☐ ☐			☐ ☐			
☐	☐		☐	☐			☐ ☐			☐ ☐			
☐	☐		☐	☐			☐ ☐			☐ ☐			
☐	☐		☐	☐			☐ ☐			☐ ☐			

CONSOLE MESSAGE	OPERATOR ACTION REQUIRED

REMARKS OR SPECIAL INSTRUCTIONS

BOOKING AND BINDING INSTRUCTIONS

* SEE DISTRIBUTION

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Figure 3-66.

SAMPLE RUN REQUEST

96

3.23   Hamlet Density/Status Plot (R7986C).   Procedure R7986C is made up of two computer programs (R7124P, R7126P) and one sort step.   The programs and sort step are linked together to produce an input tape for the CALCOMP plotter.   The programs are described in the "HES Plotting Manual."   The following illustrations describe various aspects of R7986C:

3.24   Question Response Distribution Report (R7922C).   Procedure R7922C is made up of one computer program (R7128P).   The procedure produces the HES Question Response Distribution Report.   The program and its options are described in detail in the program maintenance manual.   The following illustrations describe various aspects of R7922C:

3.25   Admin ID Roster (R7907C).   Procedure R7907C is made up of one computer program (R7129P).   The procedure produces the HES Admin ID Roster Report.   The program is described in detail in the program maintenance manual.   The following illustrations describe various aspects of R7907C:

3.26   Model Trend Report (R7991C).   Procedure R7991C is made up of one computer program (R7136P).   The procedure produces the HES Model Trend Report.   The program is described in detail in the program maintenance manual.   The following illustrations describe various aspects of R7991C:
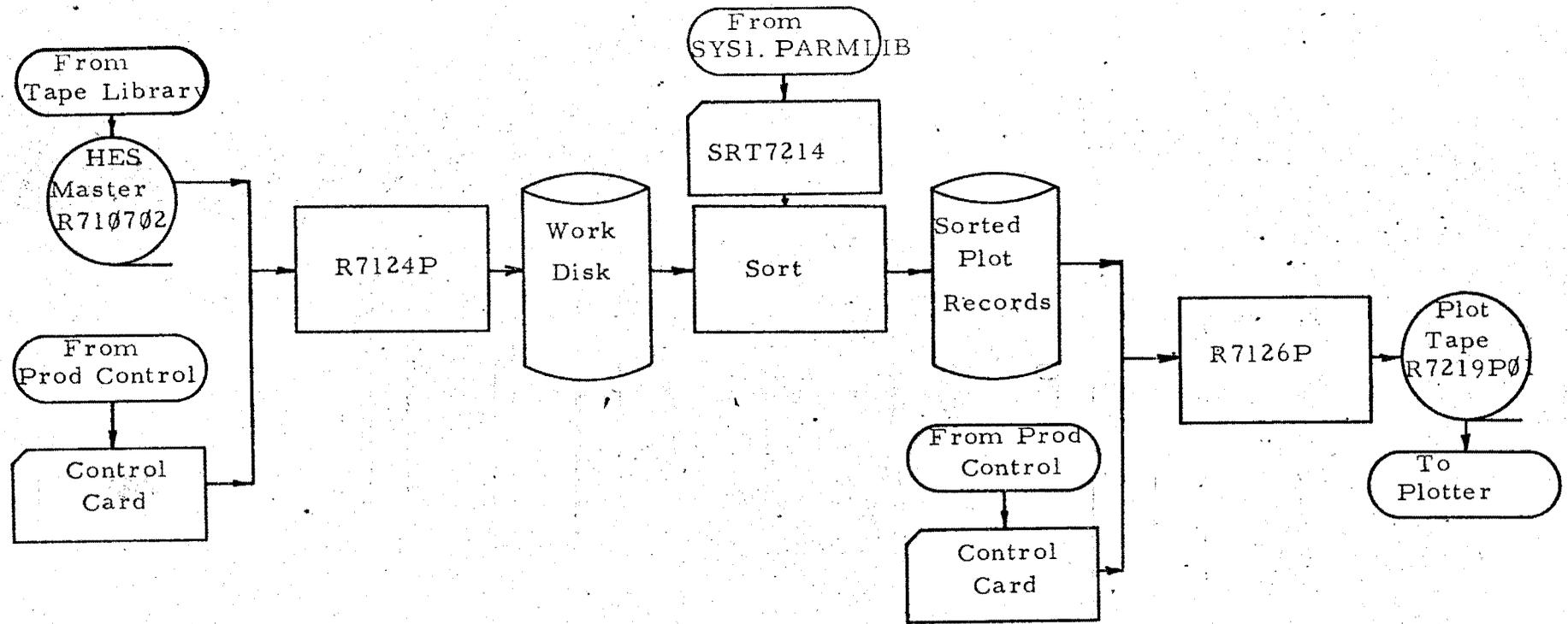
Figure 3-67

R7986C PROCEDURE FLOW

```
MEMBER NAME  R79860
//R79860   PROC INSER=999999                                              00000010
//R7124         EXEC  PGM=R7124P                                          00000020
//       NAME=MOBLEY,DIV/BR=CORDS                                         00000030
//*                                      DATE  6 OCT 70                    00000040
//STEP1     DD DSN=CORDSLIB,DISP=(SHR,PASS)                               00000050
//SYS       DD SYSOUT=A                                                   00000060
//SY        DD SYSOUT=A                                                   00000070
//          DD DISP=(SHR,PASS),UNIT=2400-3,VOL=SER=&INSER,DSN=R710702     00000080
//S         DD DSN=SYS1.SORTLIB,DISP=SHR                                  00000090
//S         DD UNIT=2314,DISP=(NEW,PASS),SPACE=(CYL,(20,1),RLSE),        X00000100
//             DCB=(RECFM=VB,LRECL=31,BLKSIZE=1004)                       00000110
//S   WK1   DD SPACE=(TRK,(40),,CONTIG),UNIT=SYSDA                        00000120
//S   WK02  DD SPACE=(TRK,(40),,CONTIG),UNIT=SYSDA                        00000130
//SO  WK03  DD SPACE=(TRK,(40),,CONTIG),UNIT=SYSDA                        00000140
//SO  WK04  DD SPACE=(TRK,(40),,CONTIG),UNIT=SYSDA                        00000150
//SO  WK05  DD SPACE=(TRK,(40),,CONTIG),UNIT=SYSDA                        00000160
//SOR WK06  DD SPACE=(TRK,(40),,CONTIG),UNIT=SYSDA                        00000170
//SORTOUT   DD UNIT=2314,DISP=(NEW,PASS),SPACE=(CYL,(20,1),RLSE),        X00000180
//             DCB=*.SORTIN                                               00000190
//TAP   02  DD UNIT=2314,DISP=(NEW,PASS),SPACE=(CYL,(20,1),RLSE)          00000200
//SY        DD DDNAME=CARDIN                                              00000210
//S 7214    EXEC PGM=ICRRCCCO,PARM='MSG=AP'                              00000220
//     L B  DD DSN=SYS1.SORTLIB,DISP=SHR                                  00000230
//SYS OUT   DD SYSOUT=A                                                   00000240
//S         DD DSN=*.R7124.TAPE02,DISP=(OLD,DELETE),                     X00000250
//             DCB=(RECFM=FB,LRECL=20,BLKSIZE=2000)                       00000260
//S  TOUT   DD UNIT=2314,DISP=(,PASS),SPACE=(CYL,(20,1),RLSE),           X00000270
//             DCB=*.SORTIN                                               00000280
//SORTWK01  DD UNIT=2314,SPACE=(CYL,(10),,CONTIG)                        00000290
//SORTWK02  DD UNIT=2314,SPACE=(CYL,(10),,CONTIG)                        00000300
//SORTWK03  DD UNIT=2314,SPACE=(CYL,(10),,CONTIG)                        00000310
//SORTWK04  DD UNIT=2314,SPACE=(CYL,(10),,CONTIG)                        00000320
//SORTWK05  DD UNIT=2314,SPACE=(CYL,(10),,CONTIG)                        00000330
//SORTWK06  DD UNIT=2314,SPACE=(CYL,(10),,CONTIG)                        00000340
//SYS       DD DSN=SYS1.PARMLIB(SRT7214),DISP=(SHR,PASS)                  00000350
//R7126     EXEC  PGM=R7126P                                             00000360
//S   PC B  DD DSN=CORDSLIB,DISP=(SHR,PASS)                               00000370
//SY  OUT   DD SYSOUT=A                                                   00000380
//SY     D  DD SYSOUT=A                                                   00000390
//          DD DSN=*.SRT7214.SORTOUT,DISP=(OLD,DELETE)                    00000400
//      PE  DD UNIT=7TRK,LABEL=(,NL),DISP=(NEW,KEEP),DSN=R7219P01         00000410
//SY        DD DDNAME=CARDIN                                              00000420
```

Figure 3-68

CATALOGED PROCEDURE LIST

99

```
/*
 101     POPULATION DENSITY   30 SEP 71
//R7126.CARDIN  DD  *
/*
 7103    PAM01H                        2
//R7124.CARDIN  DD  *
//       EXEC R7986C,INSER=000521,TIME.R7124=15
//       (R7986C,PRC,30,5),R-HES,MSGLEVEL=1,CLASS=B,TIME=30
```

Figure 3-69

PROCEDURE CALL DECK

100

CONTROL NUMBER	HASP NO	PART NO	START TIME	JOB SEQUENCE		REQUESTOR	JOB NAME
				JOB 1 OF 2		R-HES	R7986C

JOB CLASS	MAX TAPES	JOB CODE	CLASSIF	PRTY	RUN CODE	EXEC TIME	PRINT TIME	CARDS PCH	FORM NO	COPIES
B	1	R7986C	C	3	PR	30	5	0	1	1

I/O IN	I/O OUT	BPI	FP YES	FP NO	VOL SER	DATA SET NAME	DISP INSTR KEEP	SCRATCH	RET	PRINT INSTR TAPRT	DEBE	NO CYS/RECORDS
X	☐	N	X	☐	999	R710702	X	☐	I	☐	☐	
☐	☐		☐	☐			☐	☐		☐	☐	
☐	X	556	☐	X		* R7219P01	X	☐	45	☐	☐	
☐	☐		☐	☐			☐	☐		☐	☐	
☐	☐		☐	☐			☐	☐		☐	☐	
☐	☐		☐	☐			☐	☐		☐	☐	
☐	☐		☐	☐			☐	☐		☐	☐	
☐	☐		☐	☐			☐	☐		☐	☐	

CONSOLE MESSAGE   **OPERATOR ACTION REQUIRED**

REMARKS OR SPECIAL INSTRUCTIONS

BOOKING AND BINDING INSTRUCTIONS

* TO JOB 2 of 2

MAC DMA FORM 14, I AUG 70 360/50 COMPUTER OPERATING INSTRUCTIONS

Figure 3-70

SAMPLE RUN REQUEST

101

PLOTTER OPERATING INSTRUCTIONS

Job Code R7986C	Job Name Hamlet Map (4 plots)		Classification U
Agency CORDS	Requestor R-HES	Phone 4151	Priority 3

EST. Run Time 90 min. Actual Run Time	RUN CODES PR – PRODUCTION TE – TEST SM – SYSTEM	RE – RERUN/EQUIP FAILURE RO – RERUN/OPERATION ERROR RP – RERUN/PROGRAM ERROR RS – RERUN/SYSTEM ERROR	Run Code PR

PLOT #1	PLOT #2	PLOT #3
Reel # 999999	Reel # 999999	Reel # 999999

START BLOCK 1	STOP BLOCK 2	START BLOCK 2	STOP BLOCK 3	START BLOCK 3	STOP BLOCK 4

Pen	Color	Type	Pen	Color	Type	Pen	Color	Type
#1	Black	Free Flow	#1	Black	Free Flow	#1	Black	Free Flow
#2			#2			#2		
#3			#3			#3		
#4			#4			#4		

Type Paper Vellum	Type Paper Vellum	Type Paper Vellum
Paper Width 54"	Paper Width 54"	Paper Width 54"
Distance From Paper Edge to Origin	Distance From Paper Edge to Origin	Distance From Paper Edge to Origin
Origin LR　　　RR LF　　　RF	Origin LR　　　RR LF　　　RF	Origin LR　　　RR LF　　　RF
Special Instructions	Special Instructions USE FINE PEN POINT	Special Instructions

PLOT #4	PLOT #5	PLOT #6
Reel # 999999	Reel #	Reel #

START BLOCK 4	STOP BLOCK 5	START BLOCK	STOP BLOCK	START BLOCK	STOP BLOCK

Pen	Color	Type	Pen	Color	Type	Pen	Color	Type
#1	Black	Free Flow	#1			#1		
#2			#2			#2		
#3			#3			#3		
#4			#4			#4		

Type Paper Vellum	Type Paper	Type Paper
Paper Width 54"	Paper Width	Paper Width
Distance From Paper Edge to Origin	Distance From Paper Edge to Origin	Distance From Paper Edge to Origin
Origin LR　　　RR LF　　　RF	Origin LR　　　RR LF　　　RF	Origin LR　　　RR LF　　　RF
Special Instructions	Special Instructions	Special Instructions

MACDMA Form 28
2 Nov 68

Figure 3-71

SAMPLE PLOTTER SETUP SHEET

102

Figure 3-72

R7922C PROCEDURE FLOW

103

```
         R7922
//  R792        /    PROC  CPU=200,R710702=999999                    00000001
//  R7128        EXEC  PGM=R71289,TIME=&CPU                           00000002
//*                                                                   00000003
//*                                                                   00000004
//*          NAME=M2HER,DIV/BR=CORDS-RAD,DAR=R7,DATE=25OCT71          00000005
//*          QUARTERLY RESPONSE DISTRIBUTION REPORT                   00000006
//*                                                                   00000007
//*                                                                   00000008
//*                                                                   00000009
//STEPRLIB   DD    DSNAME=CORDSLIB,DISP=SHR                           00000010
//R710702    DD    DSNAME=R710702,UNIT=2400-3,DISP=(OLD,KEEP),        00000011
//                 VOL=SER=SR710702                                   00000012
//SYSPRINT   DD    SYSOUT=A                                           00000013
//SYSOUT     DD    SYSOUT=A                                           00000014
//SYSIN      DD    DSNAME=CTLCARD                                     00000015
```

Figure 3-73

CATALOGED PROCEDURE LIST

104

```
/*
7112 3 D VQT05 O
//R7128.CTLCARD  DD  *
//              EXEC R7922C,R710702=003706
//              TIME=200
//              (R7922C,PRC,020,02,000,,),R-HES,MSGLEVEL=1,CLASS=B,        X
```

Figure 3-74

PROCEDURE CALL DECK (Sheet 1 of 2)

105

SYSTEM NAME: HES   EFFECTIVE DATE: 1 Jan 71

Record Name	Base	1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	6	7	8	9	20	1	2	3	4	5	6	7	8	9	30	1	2	3	4	5	6	7	8	9	40
		Date					Option		Level		Question Code						Ranking																									
		Y	Y	M	M		N		A		H	M	B	0	1		N	N	N	N	N																					

CC 1-4   Date

CC 5   Blank

CC 6   Option = 1   Population (thousands)

                   2   Population percent

                   3   Hamlets

CC 7   Blank

CC 8   Level = D   District

                   P   Province

CC 9   Blank

CC 10-14   Question Code

CC 15   Blank

CC 16-20   Rankink, up to 5 Responses

CC 21-80   Blank

Figure 3-74

PROCEDURE CALL DECK (Sheet 2 of 2)

1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	6	7	8	9	20	1	2	3	4	5	6	7	8	9	30	1	2	3	4	5	6	7	8	9	40

USACDC Form 28, 12 Apr 72   Replaces edition of 12 Aug 69, which is obsolete

CONTROL NUMBER	HASP NO	PART NO	START TIME	JOB SEQUENCE	REQUESTOR	JOB NAME
				JOB 1 OF 1	R-HES	R7922C

JOB CLASS	MAX TAPES	JOB CODE	CLASSIF	PRTY	RUN CODE	EXEC TIME	PRINT TIME	CARDS PCH	FORM NO	COPIES
B	1	R7922C	C	3	PR	20	2	0	*	*

I/O IN	OUT	BPI	FP YES	NO	VOL SER	DATA SET NAME	DISP INSTR KEEP	SCRATCH	RET	PRINT INSTR TAPRT	DEBE	NO CYS/RECORDS
X	☐	N	X	☐	999	R710702	☐	☐		☐	☐	
☐	☐		☐	☐			☐	☐		☐	☐	
☐	☐		☐	☐			☐	☐		☐	☐	
☐	☐		☐	☐			☐	☐		☐	☐	
☐	☐		☐	☐			☐	☐		☐	☐	
☐	☐		☐	☐			☐	☐		☐	☐	
☐	☐		☐	☐			☐	☐		☐	☐	
☐	☐		☐	☐			☐	☐		☐	☐	

CONSOLE MESSAGE	OPERATOR ACTION REQUIRED

REMARKS OR SPECIAL INSTRUCTIONS

BOOKING AND BINDING INSTRUCTIONS

* SEE DISTRIBUTION

MAC DMA FORM 14, I AUG 70 360/50 COMPUTER OPERATING INSTRUCTIONS

Figure 3-75

SAMPLE RUN REQUEST

107
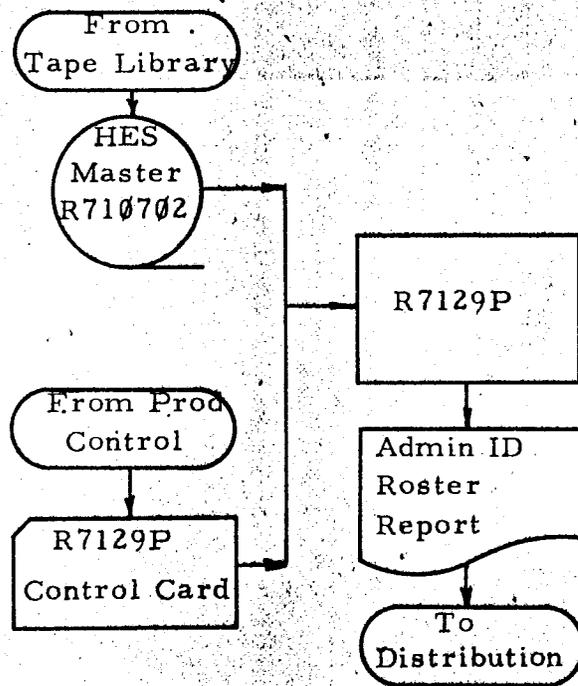
Figure 3-76

R7907C PROCEDURE FLOW

108

```
MEMBER NAME  R79070
//R79070        PROC   CPU=60,SERIAL=999999                                      0000001
//R7129         EXEC   PGM=R7129P,TIME=&CPU                                       0000002
//*                    NAME=SIMON/BROWN,DIV/BR=CORDS-RAD,DAR=R7,DATE=11MAY71      0000003
//*    SPEC 71 - PRODUCES ADMIN ID ROSTER REPORT                                 0000004
//STEPLIB        DD     DSNAME=CORDSLIB,DISP=SHR                                  0000005
//SYSOUT         DD     SYSOUT=A                                                  0000006
//SYSPRINT       DD     SYSOUT=A                                                  0000007
//PRINTER        DD     SYSOUT=A                                                  0000008
//MASTER         DD     DSNAME=R710702,UNIT=2400-3,DISP=(OLD,KEEP),             X 0000009
//                      VOL=SER=&SERIAL                                           0000010
//CARDS          DD     DDNAME=CTLCARD                                           0000011
//VILLFILE       DD     UNIT=2314,SPACE=(TRK,(100),,CONTIG)                      0000012
//SORTLIB        DD     DSNAME=SYS1.SORTLIB,DISP=SHR                             0000013
//SORTWK01       DD     UNIT=2314,SPACE=(CYL,(05,5),,CONTIG)                     0000014
//SORTWK02       DD     UNIT=2314,SPACE=(CYL,(05,5),,CONTIG)                     0000015
//SORTWK03       DD     UNIT=2314,SPACE=(CYL,(05,5),,CONTIG)                     0000016
//SORTWK04       DD     UNIT=2314,SPACE=(CYL,(05,5),,CONTIG)                     0000017
//SORTWK05       DD     UNIT=2314,SPACE=(CYL,(05,5),,CONTIG)                     0000018
//SORTWK06       DD     UNIT=2314,SPACE=(CYL,(05,5),,CONTIG)                     0000019
```

Figure 3-77

CATALOGED PROCEDURE LIST

109

```
/*
710831 08.71
//R7129.CTLCARD  DD  *
//            EXEC  R7907C,SERIAL=001414
//            (R7907C,PRC,030,10,0,1,1),'R-HES',MSGLEVEL=1,CLASS=D
```

Figure 3-78

PROCEDURE CALL DECK (Sheet 1 of 2)

110

Record Name	Base	1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	6	7	8	9	20	1	2	3	4	5	6	7	8	9	30	1	2	3	4	5	6	7	8	9	40

SYSTEM NAME: HES   EFFECTIVE DATE: 1 Jan 71

Date   As of Date

Y Y M M D D / M M / Y Y

Figure 3-78

PROCEDURE CALL DECK (Sheet 2 of 2)

1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	6	7	8	9	20	1	2	3	4	5	6	7	8	9	30	1	2	3	4	5	6	7	8	9	40

USCCords Form 28, 12 Apr 72   Replaces edition of 12 Aug 69, which is obsolete

111

CONTROL NUMBER	HASP NO	PART NO	START TIME	JOB SEQUENCE	REQUESTOR	JOB NAME			
				JOB 1 OF 1	R-HES	R7907C			

JOB CLASS	MAX TAPES	JOB CODE	CLASSIF	PRTY	RUN CODE	EXEC TIME	PRINT TIME	CARDS PCH	FORM NO	COPIES
D	1	R7907C	C	3	PR	30	40	0	1	1

I/O		BPI	FP		VOL SER	DATA SET NAME	DISP INSTR			PRINT INSTR		
IN	OUT		YES	NO			KEEP SCRATCH	RET	TAPRT	DEBE	NO CYS/RECORDS
[x] [ ]	N	[x] [ ]		999	R710702	[x] [ ]	I	[ ] [ ]	
[ ] [ ]		[ ] [ ]				[ ] [ ]		[ ] [ ]	
[ ] [ ]		[ ] [ ]				[ ] [ ]		[ ] [ ]	
[ ] [ ]		[ ] [ ]				[ ] [ ]		[ ] [ ]	
[ ] [ ]		[ ] [ ]				[ ] [ ]		[ ] [ ]	
[ ] [ ]		[ ] [ ]				[ ] [ ]		[ ] [ ]	
[ ] [ ]		[ ] [ ]				[ ] [ ]		[ ] [ ]	
[ ] [ ]		[ ] [ ]				[ ] [ ]		[ ] [ ]	

CONSOLE MESSAGE	OPERATOR ACTION REQUIRED

REMARKS OR SPECIAL INSTRUCTIONS

BOOKING AND BINDING INSTRUCTIONS

MAC DMA FORM 14, 1 AUG 70 360/50 COMPUTER OPERATING INSTRUCTIONS

Figure 3-79

SAMPLE RUN REQUEST

112
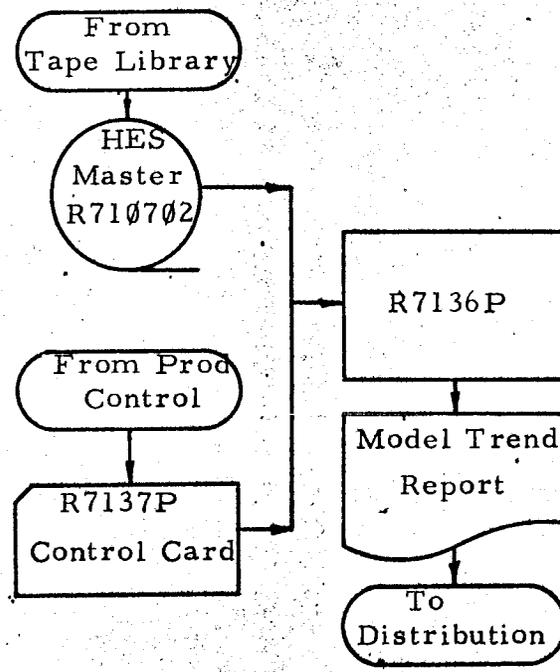
Figure 3-80

R7991C PROCEDURE FLOW

113

```
MEMBER NAME  R79910
//R79910      PROC    CPU=400,SERIAL=999999                                    00000010
//R7136       EXEC    PGM=R7136P,TIME=&CPU                                      00000020
//*                   NAME=MAHER,DIV/BR=CORDS-RAD,DAR=R7,DATE=30SEP71           00000030
//*    HES 70 -  PRODUCES MODEL TREND REPORT                                    00000040
//STEPLIB      DD      DSNAME=CORDSLIB,DISP=SHR                                 00000050
//TAPE01       DD      DSNAME=R710702,UNIT=2400-3,DISP=(OLD,KEEP),           X00000060
//                     VOL=SER=&SERIAL                                          00000070
//TAPE02       DD      SYSOUT=A                                                 00000080
//SYSOUT       DD      SYSOUT=A                                                 00000090
//SYSABEND     DD      SYSOUT=A                                                 00000100
//SYSIN        DD      DDNAME=CTLCARD                                           00000110
```

Figure 3-81

CATALOGED PROCEDURE LIST

114

```
/*
7102                    D 31 AUG 71
//R7125.CTLCARD  DD *
//              EXEC  R7991C,SERIAL=001414
//              TIME=200
//              (R7991C,PRC,200,40,0,1,1),'R-HES',MSGLEVEL=1,CLASS=J,    X
```

Figure 3-82

PROCEDURE CALL DECK (Sheet 1 of 2)

115

| Record Name | Base | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 20 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 30 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 40 |

SYSTEM NAME: HES EFFECTIVE DATE: 1 Jan 71

Date | Start | USID | Stop | USID | Level | As of Date

Y Y M M | N N N N N N N N | N N N N N N N N | | D D | M M M | Y Y

D=District
P=Province

Figure 3-82

PROCEDURE CALL DECK (Sheet 2 of 2)

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 20 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 30 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 40 |

MACCOIIS Form 28, 12 Apr 72   Replaces edition of 12 Aug 69, which is obsolete

116

CONTROL NUMBER	HASP NO	PART NO	START TIME	JOB SEQUENCE		REQUESTOR		JOB NAME	
				JOB 1 OF 1		R-HES		R7991C	

JOB CLASS	MAX TAPES	JOB CODE	CLASSIF	PRTY	RUN CODE	EXEC TIME	PRINT TIME	CARDS PCH	FORM NO	COPIES
J	1	R7991C	C	3	PR	200	40	.0	*	*

I/O IN OUT	BPI	FP YES NO	VOL SER	DATA SET NAME	DISP INSTR KEEP SCRATCH	RET	PRINT INSTR TAPRT DEBE	NO CYS/RECORDS
☒ ☐	N	☒ ☐	999	R710702	☒ ☐	I	☐ ☐	
☐ ☐		☐ ☐			☐ ☐		☐ ☐	
☐ ☐		☐ ☐			☐ ☐		☐ ☐	
☐ ☐		☐ ☐			☐ ☐		☐ ☐	
☐ ☐		☐ ☐			☐ ☐		☐ ☐	
☐ ☐		☐ ☐			☐ ☐		☐ ☐	
☐ ☐		☐ ☐			☐ ☐		☐ ☐	
☐ ☐		☐ ☐			☐ ☐		☐ ☐	

CONSOLE MESSAGE	OPERATOR ACTION REQUIRED

REMARKS OR SPECIAL INSTRUCTIONS

* SEE DISTRIBUTION

BOOKING AND BINDING INSTRUCTIONS

MAC DMA FORM 14, 1 AUG 70 360/50 COMPUTER OPERATING INSTRUCTIONS

Figure 3-83

SAMPLE RUN REQUEST

117

3.27　Variable Model Score Percent Change Program (R7923C).　Procedure R7923C is made up of one computer program (R7167P).　The procedure produces the variable model score percent change report.　The program is described in detail in the program maintenance manual. The following illustrations describe various aspects of R7923C:

Figure 3-84　　Procedure R7923C Flow
Figure 3-85　　Cataloged Procedure List
Figure 3-86　　Procedure Call Deck
Figure 3-87　　Sample Run Sheet

3.28　Revised Ethnic Minority Affairs Report (R7913C).　Procedure R7913C is a computer procedure made up of one computer program (R7160P).　The procedure produces the revised ethnic minority affairs report.　The program is described in detail in the program maintenance manual.　The following illustrations describe various aspects of R7913C:

Figure 3-88　　Procedure R7913C Flow.
Figure 3-89　　Cataloged Procedure List
Figure 3-90　　Procedure Call Deck
Figure 3-91　　Sample Run Sheet

3.29　HES Bilingual Update Forms (R7919C).　Procedure R7919C is made up of one computer program (R7161P).　The procedure produces the HES Update Forms Print Tapes.　The program is described in the program maintenance manual.　The following illustrations describe various aspects of R7919C:

Figure 3-92　　Procedure R7919C Flow
Figure 3-93　　Cataloged Procedure List
Figure 3-94　　Procedure Call Deck
Figure 3-95　　Sample Run Sheet

3.30　HES/70 Plotting.　The HES/70 hamlet plot subsystem is composed of two programs, two subroutines, and two catalogued procedures.　In addition, it utilizes the generalized printer plot routine composed of programs S8701P and S8702P, the basic CALCOMP package for the 1:1,000,000 hamlet maps and population density maps, and the GEOPLOT module of the data presentation display (DPS) system for special plots at scales such as 1:500,000, 1:100,000, and 1:50,000. These plots reflect locations (UTM coordinates) of the active hamlets/ villages.　Options are specified in the first program to select the desired data and produce a tape that is passed to the printer plot routine or DPS, or a tape that is passed to the second program for production of the special maps.

118

From
Tape Library

HES
Master
R710701

From Prod
Control

R7167P
Control Card

R7167P

Percent
Change Re-
port

To
Distribution
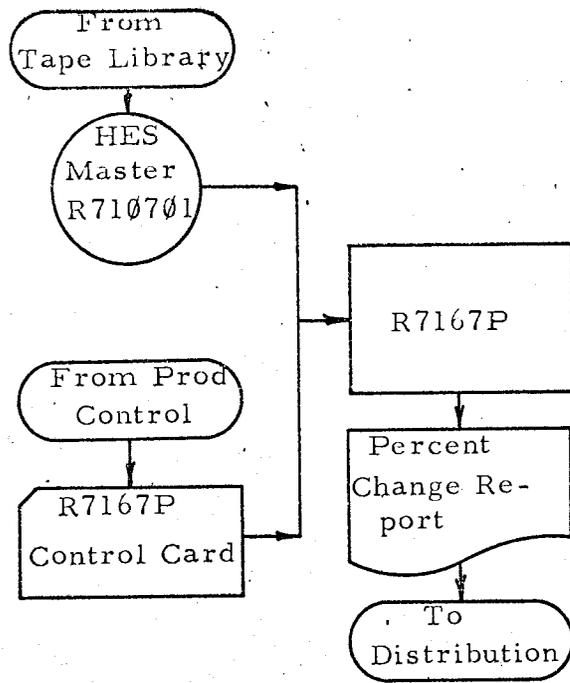
Figure 3-84

R7923C PROCEDURE FLOW

119

```
MEMBER NAME    R7923C
//R7923C        PROC CPU=200,R710701=999999                    00000010
//R7167         EXEC PGM=R7167P,TIME=&CPU                       00000020
//*                                                             00000030
//*                                                             00000040
//*                                                             00000050
//*             NAME=MAHER,DIV/BR=CORDS-RAD,DAR=R7,DATE=11FEB72 00000060
//*             VARIABLE MODEL SCORE PERCENT CHANGE PROGRAM     00000070
//*                                                             00000080
//*                                                             00000090
//STEPLIB       DD    DSNAME=CORDSLIB,DISP=SHR                  00000100
//TAPE01        DD    UNIT=2400-3,DISP=(OLD,KEEP),DSN=R710701,  00000110
//                    VOL=SER=&R710701                         X00000120
//SYSOUT        DD    SYSOUT=A                                  00000130
//SYSABEND      DD    SYSOUT=A                                  00000140
//SYSIN         DD    DDNAME=CTLCARD                            00000150
                                                                00000160
```

Figure 3-85

CATALOGED PROCEDURE LIST

120

```
/*
720172020000A,B
//R7167.CTLCARD.DD  *
//             EXEC  R7923C,R710701=999999
//             TIME=200
//             (R7923C,PRC,040,010,000,,),R-HES,MSGLEVEL=1,CLASS=B,    X
```

Figure 3-86

PROCEDURE CALL DECK (Sheet 1 of 2)

121

SYSTEM NAME: HES   EFFECTIVE DATE: 1 Jan 71

Record Name	Base	1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	6	7	8	9	20	1	2	3	4	5	6	7	8	9	30	1	2	3	4	5	6	7	8	9	40
		Previous Month				Current Month								Scores to be Analysed																											
		Y	Y	M	M	Y	Y	M	M	O	O	O	O	A	,	B																									

CC 1-4 Previous Month
CC 5-8 Current Month
CC 9-10 Print Suppress Value for Province
CC 11-12 Print Suppress Value for District
CC 13-20 Scores to be Analysed (up to 4) IE A, B, C, D

Figure 3-86

PROCEDURE CALL DECK (Sheet 2 of 2)

1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	6	7	8	9	20	1	2	3	4	5	6	7	8	9	30	1	2	3	4	5	6	7	8	9	40

CONTROL NUMBER	HASP NO	PART NO	START TIME	JOB SEQUENCE	REQUESTOR		JOB NAME	
				JOB _1_ OF _1_	R-HES		R7923C	

JOB CLASS	MAX TAPES	JOB CODE	CLASSIF	PRTY	RUN CODE	EXEC TIME	PRINT TIME	CARDS PCH	FORM NO	COPIES
B	1	R7923C	C	3	PR	40	10	0	*	*

I/O IN	OUT	BPI	FP YES	NO	VOL SER	DATA SET NAME	DISP KEEP	SCRATCH	RET	PRINT TAPRT	DEBE	No CYS/RECORDS
[x]	[ ]	N	[x]	[ ]	.999	R710701	[x]	[ ]	I	[ ]	[ ]	
[ ]	[ ]		[ ]	[ ]			[ ]	[ ]		[ ]	[ ]	
[ ]	[ ]		[ ]	[ ]			[ ]	[ ]		[ ]	[ ]	
[ ]	[ ]		[ ]	[ ]			[ ]	[ ]		[ ]	[ ]	
[ ]	[ ]		[ ]	[ ]			[ ]	[ ]		[ ]	[ ]	
[ ]	[ ]		[ ]	[ ]			[ ]	[ ]		[ ]	[ ]	
[ ]	[ ]		[ ]	[ ]			[ ]	[ ]		[ ]	[ ]	
[ ]	[ ]		[ ]	[ ]			[ ]	[ ]		[ ]	[ ]	

CONSOLE MESSAGE	OPERATOR ACTION REQUIRED

REMARKS OR SPECIAL INSTRUCTIONS

* SEE DISTRIBUTION

BOOKING AND BINDING INSTRUCTIONS

MAC DMA FORM 14, 1 AUG 70 360/50 COMPUTER OPERATING INSTRUCTIONS

Figure 3-87

SAMPLE RUN REQUEST

123
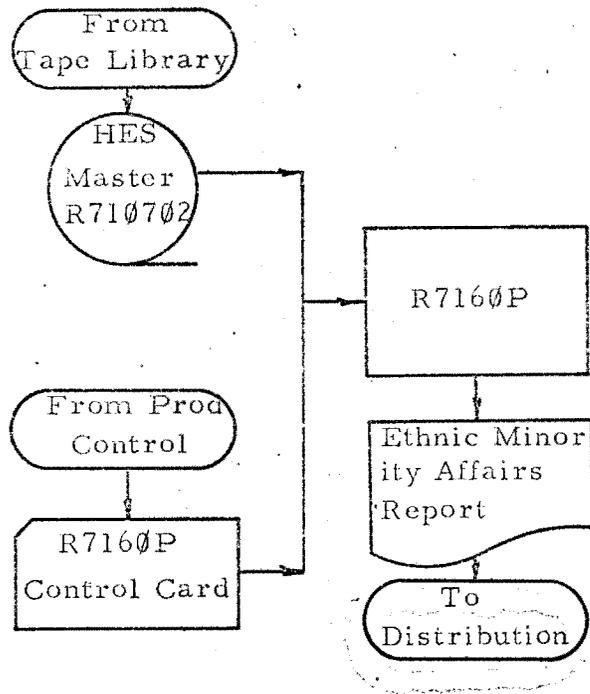
Figure 3-88

R7913C PROCEDURE FLOW

124

```
IEMBER NAME  R7913C
//R7913C       PROC      CPU=25,SERIAL=999999                                        00000010
//R7160        EXEC      PGM=R7160P,TIME=&CPU                                         00000020
//*            NAME=SIMON,DIV/BR=CORDS-RAD,DAR=R7,DATE=6AUG71                         00000030
//*    HES 70 - PRODUCES REVISED ETHNIC MINORITY AFFAIRS REPORT                       00000040
//STEPLIB      DD        DSNAME=CORDSLIB,DISP=SHR                                     00000050
//SYSOUT       DD        SYSOUT=A                                                     00000060
//SYSABEND     DD        SYSOUT=A                                                     00000070
//PRINTER      DD        SYSOUT=A                                                     00000080
//HESIN        DD        DSNAME=R710702,UNIT=2400-3,DISP=(OLD,KEEP),              X00000090
//             VOL=SER=&SERIAL                                                        00000100
//SORTLIB      DD        DSNAME=SYS1.SORTLIB,DISP=SHR                                 00000110
//SORTWK01     DD        UNIT=2314,SPACE=(CYL,(05,5),,CONTIG)                         00000120
//SORTWK02     DD        UNIT=2314,SPACE=(CYL,(05,5),,CONTIG)                         00000130
//SORTWK03     DD        UNIT=2314,SPACE=(CYL,(05,5),,CONTIG)                         00000140
//SORTWK04     DD        UNIT=2314,SPACE=(CYL,(05,5),,CONTIG)                         00000150
//SORTWK05     DD        UNIT=2314,SPACE=(CYL,(05,5),,CONTIG)                         00000160
//SORTWK06     DD        UNIT=2314,SPACE=(CYL,(05,5),,CONTIG)                         00000170
//READER       DD        DDNAME=CONCARD                                              00000180
```

Figure 3-89

CATALOGED PROCEDURE LIST

125

```
/*
7112 31 DEC 71                                                    R7160
//R7160.CONCARD  DD  *
//              EXEC  R7913C,SERIAL=999999
//              TIME=200
//              (R7913C,PRC,040,60,0,1,1),'R-HES',MSGLEVEL=1,CLASS=D,    X
```

Figure 3-90

PROCEDURE CALL DECK (Sheet 1 of 2)

SYSTEM NAME: HES   **EFFECTIVE DATE:** 1 Jan 71

Record Name	Base	1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	6	7	8	9	20	1	2	3	4	5	6	7	8	9	30	1	2	3	4	5	6	7	8	9	40

Date | As of Date | Start USID | Stop USID

Y Y M M | D D | M M M | Y Y | N N N N N | N N N N N

R 7 1 6 0

Figure 3-90

PROCEDURE CALL DECK (Sheet 2 of 2)

1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	6	7	8	9	20	1	2	3	4	5	6	7	8	9	30	1	2	3	4	5	6	7	8	9	40

MACCO's Form 28, 1 Apr 72   Replaces edition of 12 Aug 69, which is obsolete

127

CONTROL NUMBER	HASP NO	PART NO	START TIME	JOB SEQUENCE		REQUESTOR		JOB NAME		
				JOB 1 OF 1		R-HES		R7913C		

JOB CLASS	MAX TAPES	JOB CODE	CLASSIF	PRTY	RUN CODE	EXEC TIME	PRINT TIME	CARDS PCH	FORM NO	COPIES
D	1	R7913C	C	3	PR	40	25	0	*	*

I/O		BPI	FP		VOL SER	DATA SET NAME	DISP INSTR		RET	PRINT INSTR		NO CYS/
IN	OUT		YES	NO			KEEP	SCRATCH		TAPRT	DEBE	RECORDS
☒	☐	N	☒	☐	999	R710702	☒	☐	I	☐	☐	
☐	☐		☐	☐			☐	☐		☐	☐	
☐	☐		☐	☐			☐	☐		☐	☐	
☐	☐		☐	☐			☐	☐		☐	☐	
☐	☐		☐	☐			☐	☐		☐	☐	
☐	☐		☐	☐			☐	☐		☐	☐	
☐	☐		☐	☐			☐	☐		☐	☐	
☐	☐		☐	☐			☐	☐		☐	☐	

CONSOLE MESSAGE	OPERATOR ACTION REQUIRED

REMARKS OR SPECIAL INSTRUCTIONS

* SEE DISTRIBUTION

BOOKING AND BINDING INSTRUCTIONS

MAC DMA FORM 14, I AUG 70   360/50   COMPUTER OPERATING INSTRUCTIONS

Figure 3-91

SAMPLE RUN REQUEST

128
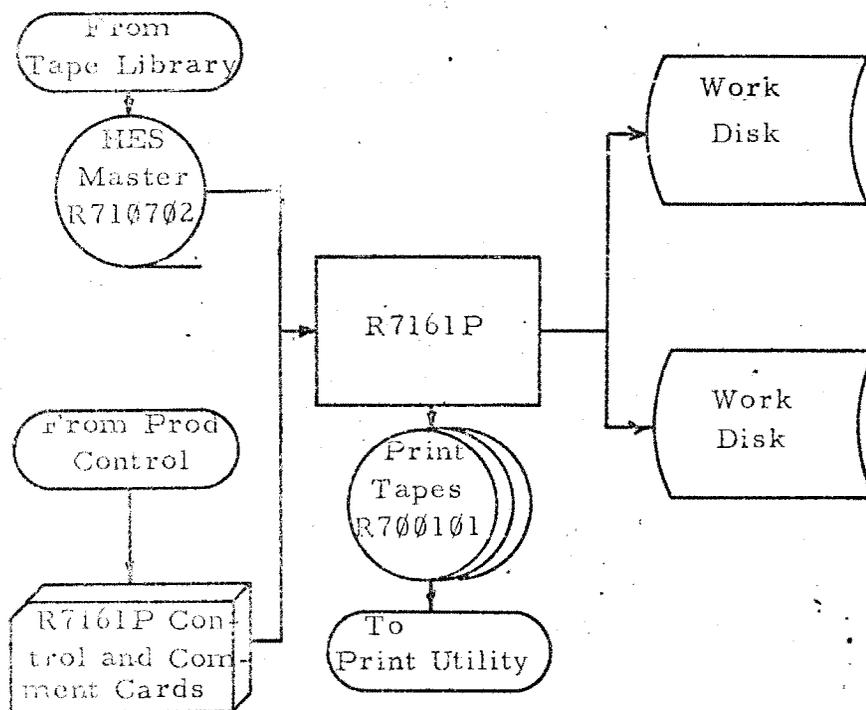
Figure 3-92

R7919C PROCEDURE FLOW

129

```
EMBER NAME  R7919C
//R7919C           PROC CPU=200,R710702=999999                              00000010
//R7161            EXEC PGM=R7161P,TIME=&CPU                                 00000020
//*                                                                         00000030
//*                                                                         00000040
//*                NAME=MAHER,DIV/BR=CORDS-RAD,DAR=R7,DATE=20AUG71          00000050
//*                BILINGUAL UPDATE FORMS (HES)                             00000060
//*                                                                         00000070
//*                                                                         00000080
//*                                                                         00000090
//STEPLIB          DD    DSNAME=CORDSLIB,DISP=SHR                           00000100
//TAPE01           DD    DSNAME=R710702,UNIT=2400-3,DISP=(OLD,KEEP),       X00000110
//                 VOL=SER=&R710702                                         00000120
//TAPE02           DD    UNIT=2314,SPACE=(TRK,(0100),,CONTIG),             X00000130
//                 DISP=(NEW,PASS),DCB=(RECFM=FB,LRECL=64,BLKSIZE=1280)     00000140
//TAPE03           DD    DSN=R700101,UNIT=7TRK,DISP=(NEW,KEEP),VOLUME=(,,,10), X00000150
//                 DCB=(TRTCH=ET,DEN=2)                                     00000160
//  TAPE04         DD    UNIT=2314,SPACE=(TRK,(1100),,CONTIG),             X00000170
//                 DISP=(NEW,PASS),DCB=(RECFM=FB,LRECL=200,BLKSIZE=4000)    00000180
//SYSOUT           DD SYSOUT=A                                              00000190
//SYSIN            DD    DDNAME=CTLCARD                                     00000200
```

Figure 3-93

CATALOGED PROCEDURE LIST

130

```
/*

        COMMENT CARDS HERE      CC 1-4 = INST

            Q31 DEC 71                              X

//R7161.CTLCARD DD  *

//              EXEC R7919C,R710702=999999

//              TIME=400

//              (R7919C,PRC,80,01,,,),R-HES,MSGLEVEL=1,CLASS=D,      X
```

Figure 3-94

PROCEDURE CALL DECK (Sheet 1 of 2)

131

SYSTEM NAME: HES   EFFECTIVE DATE: 1 Jan 71

Record Name	Base	1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	6	7	8	9	20	1	2	3	4	5	6	7	8	9	30	1	2	3	4	5	6	7	8	9	40

DATE CARD

Start USID   Stop USID   Option   As of Date

N N N N N   N N N N N   D D M M M Y Y

M = Monthly
Q = Quarterly

CARD 2-N TEXT CARDS FOR SECTION A OF THE UPDATE FORMS

64 Characters of Text Per Card

I N S T

Figure 3-94

PROCEDURE CALL DECK (Sheet 2 of 2)

1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	6	7	8	9	20	1	2	3	4	5	6	7	8	9	30	1	2	3	4	5	6	7	8	9	40

CONTROL NUMBER	HASP NO	PART NO	START TIME	JOB SEQUENCE	REQUESTOR	JOB NAME
				JOB 1 OF 1	R-HES	R7919C

JOB CLASS	MAX TAPES	JOB CODE	CLASSIF	PRTY	RUN CODE	EXEC TIME	PRINT TIME	CARDS PCH	FORM NO	COPIES
D	2	R7919C	C	3	PR	80	1	0	1	1

I/O IN	OUT	BPI	FP YES	NO	VOL SER	DATA SET NAME	DISP INSTR KEEP	SCRATCH	RET	PRINT INSTR TAPRT	DEBE	NO CYS/RECORDS
X	☐	N	X	☐	999	R710702	X	☐	I	☐	☐	
☐	X	800	☐	X		R700101 1 of 3	X	☐	I	☐	☐	
☐	X	800	☐	X		R700101 2 of 3	X	☐	I	☐	☐	
☐	X	800	☐	X		R700101 3 of 3	X	☐	I	☐	☐	
☐	☐		☐	☐			☐	☐		☐	☐	
☐	☐		☐	☐			☐	☐		☐	☐	
☐	☐		☐	☐			☐	☐		☐	☐	
☐	☐		☐	☐			☐	☐		☐	☐	

CONSOLE MESSAGE   OPERATOR ACTION REQUIRED

REMARKS OR SPECIAL INSTRUCTIONS

BOOKING AND BINDING INSTRUCTIONS

MACDMA FORM 14, 1 AUG 70 360/50 COMPUTER OPERATING INSTRUCTIONS

Figure 3-95

SAMPLE RUN REQUEST

133

3. 30. 1 Inputs. The primary inputs are the HES/70 basic master file (R710702) and one input stream data card. Following is a description of the parameters of this data card:

Positions	Name	Description
1-4	As-of date	YYMM
5-8	From date	YYMM. This field is nonblank only if a change plot is desired
9-13	Name of desired data	The first five characters contain the HES/70 QTAB names as follows:

- PAM01: pacification score (level 5)
- PHM02: security (level 4)
- MAM01 - MAM03: macro-model scores (level 3)
- MOD01 - MOD06: model scores (level 2)
- SUM01 - SUM19: submodel scores (level 1)
- HMB01 ⎫
- HQB01 ⎪ Hamlet monthly and quarterly and village monthly
- VMB01 ⎬ and quarterly questions
- VQB01 ⎭ where B01 represents the desired topic area and question

14		The sixth character is nonblank only for requests for level 1 through level 4 responses. It can be: H - hamlet model scores V - village model scores O - village-only model scores
15	VC option	To be used only with model responses (levels 1 through 4). Normally blank. If this value is 1 and the pacification score is V, the V is plotted in place of the requested model response.
16-24	Starting USID	If this field is blank, it is set to zeros. An alphanumeric compare is made to determine if a hamlet (or village) USID is greater than or equal to this value.

134

Positions	Name	Description
25-33	Ending USID	If this field is blank, it is set to all 9s. An alphanumeric compare is made to determine if a hamlet (or village) USID is less than or equal to this value.
35	Plot type	If blank, a tape that can be input to the printer plot or DPS routines is formatted. 1 - 1:1,000,000 model score map 2 - 1:1,000,000 population density map If plot type equals 1 or 2, change plots and plots of question responses cannot be requested.

3.30.2 Program Descriptions. Program R7214P reads the data card and the HES/70 master file, selects the appropriate data and produces a tape (assigned to SORTIN) containing the UTM coordinate, USID, and a character to be plotted. This tape can be passed directly into the printer plot routines or into the DPS system. If a 1:1,000,000 map is specified, the UTM coordinate is converted to an X-Y system by calling a COBOL subroutine, R3013. The tape is then sorted by the X, Y values, using the COBOL SORT verb, and a population-weighted aggregation is made of all hamlets with the same X, Y values. The output is then passed to R7215P.

Program R7215P reads the output of R7214P after it has been sorted. Using the basic CALCOMP subroutines, a tape is produced that is input directly to the CALCOMP. If a population density map is requested, a FORTRAN subroutine, S7152P, is called to actually draw the density symbols.

R7215P has an input card with the following format:

(a) Columns 1-2 should contain either a 10 or a 20. This value determines whether the plotted output will come out in three maps (10), one each for secure, contested, and VC areas. This option is specified for production of maps that will be sent to Long Binh for reproduction. A 20 is specified when one map is desired. This will contain all data in three colors, blue for secure, green for contested, and red for VC.

(b) Column 3 is blank for hamlet maps and must contain a 1 for population density maps.

135

(c) Columns 4-38 are reserved for a free format heading, which can include the name of the map and the "as-of" date.

3.30.3 Catalogued Procedures. Procedure R7916P is used to produce HES/70 plots at a scale of 1:250,000. First, program R7214P is called to extract the desired data from the HES/70 master file, R710702. Then the output tape is passed through S8701P, a sort (S8702P), and finally R0101 for printing. Two steps, R7214P and S8702P, require input. R7214P input has already been explained in section 3.30.1. See the operations writeup on S8701C for input to S8702P. There are four symbolic parameters that may be used. The four parameters and their default values are described below.

(a) INSER=999999 - This is the volume serial number of R710702.

(b) ODSP=DELETE - This is the final output. If the print tape (R7214P02) is to be kept, this value may be set to KEEP.

(c) A=A - This is the SYSOUT paper selection. It is currently advisable not to use this parameter, but to use the JOB card for paper selection and number of passes.

(d) CONCARD-INCARD1 - This parameter can be used to change the input card for R0101. Again, use the JOB card is advised.

Figures 3-96 and 3-97 illustrate a sample deck setup and a run sheet for R7916C. Note that the carriage control parameter on the JOB card is set to 0. This must be done to insure proper page breaks.

R7917C is used to produce a tape for CALCOMP plotting of the hamlet and the population density maps. Programs R7214P and R7215P are called with a SORT in between. Inputs are described in section 3.30.1. There is one symbolic parameter, INSER. This is the volume serial number of R710702. Figures 3-98 and 3-99 illustrate a sample deck setup and a run sheet for R7917C. Figures 3-100 and 3-101 illustrate CALCOMP requests for the hamlet and population density maps: 3-100 for the single map of all data and 3-101 for the three maps for reproduction.

136

```
//          JOB (R7916C,PR,15,15,,,,,0),PRODCON,MSGLEVEL=(1,1),CLASS=B
//          EXEC R7916C,INSER=009999
//R7214.CARDIN DD *
70027001MAM02H 101       199
/*
//S8702.CARDIN DD *
28 FEB 70
2 2  POLITICAL SCORE
     THIS PLOT SHOWS THE HES/70 HAMLET POLITICAL SCORE CHANGES
          FROM 28 FEB 70 TO 31 MAR 70
/*
```

Figure 3-96

PROCEDURE CALL DECK

137

CONTROL NUMBER	HASP NO	PART NO	START TIME	JOB SEQUENCE		REQUESTOR		JOB NAME	
				JOB 1 OF 1		HES		R7916C	

JOB CLASS	MAX TAPES	JOB CODE	CLASSIF	PRTY	RUN CODE	EXEC TIME	PRINT TIME	CARDS PCH	FORM NO	COPIES
B	2	R7916C	C	3	PR	15	15	0	1	1

I/O IN	I/O OUT	BPI	FP YES	FP NO	VOL SER	DATA SET NAME	DISP INSTR KEEP	DISP INSTR SCRATCH	RET	PRINT INSTR TAPRT	PRINT INSTR DEBE	NO CYS/RECORDS
X	☐	N	X	☐	999	R710702	X	☐	I	1 ☐	☐	
☐	X	N	☐	X		R7214P02	X	☐	I	☐	☐	
☐	☐		☐	☐			☐	☐		☐	☐	
☐	☐		☐	☐			☐	☐		☐	☐	
☐	☐		☐	☐			☐	☐		☐	☐	
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CONSOLE MESSAGE	OPERATOR ACTION REQUIRED

REMARKS OR SPECIAL INSTRUCTIONS

BOOKING AND BINDING INSTRUCTIONS

MAC DMA FORM 14, 1 AUG 70 360/50 COMPUTER OPERATING INSTRUCTIONS

Figure 3-97

SAMPLE RUN REQUEST

138

```
//        JOB (R7917C,PR,20,3),PRODCON,MSGLEVEL=(1,1),CLASS=B
//        EXEC R7917C,INSER=009999
//R7214.CARDIN  DD *
7001    PAM01H                      1
/*
//R7215.CARDIN  DD *
20 HAMLET MAP   31 JAN 70
/*
```

Figure 3-98

PROCEDURE CALL DECK

139

CONTROL NUMBER	HASP NO	PART NO	START TIME	JOB SEQUENCE		REQUESTOR		JOB NAME	
				JOB 1 OF 1		HES		R7917C	

JOB CLASS	MAX TAPES	JOB CODE	CLASSIF	PRTY	RUN CODE	EXEC TIME	PRINT TIME	CARDS PCH	FORM NO	COPIES
B	2	R7917C	C	3	PR	20	3	0	1	1

I/O		BPI	FP		VOL SER	DATA SET NAME	DISP INSTR			PRINT INSTR			
IN	OUT		YES	NO			KEEP	SCRATCH	RET	TAPRT	DEBE	NO CYS/RECORDS
☒	☐	N	☒	☐	999	R710702	☒	☐	I	☐	☐	
☐	☒	556	☐	☒		*R7215P01	☒	☐	I	☐	☐	
☐	☐		☐	☐			☐	☐		☐	☐	
☐	☐		☐	☐			☐	☐		☐	☐	
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☐	☐		☐	☐			☐	☐		☐	☐	
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☐	☐		☐	☐			☐	☐		☐	☐	

CONSOLE MESSAGE	OPERATOR ACTION REQUIRED

REMARKS OR SPECIAL INSTRUCTIONS

* This tape (7-Track) is for CALCOMP

BOOKING AND BINDING INSTRUCTIONS

MAC DMA FORM 14, 1 AUG 70 360/50 COMPUTER OPERATING INSTRUCTIONS

Figure 3-99

SAMPLE RUN REQUEST

140

PLOTTER OPERATING INSTRUCTIONS

Job Code R7917A	Job Name HAMLET MAP (Single Plot)		Classification U
Agency MACCORDS-RA	Requestor Name	Phone 4254	Priority

EST. Run Time 90 min.	RUN CODES PR – PRODUCTION TE – TEST SM – SYSTEM	RE – RERUN/EQUIP FAILURE RO – RERUN/OPERATION ERROR RP – RERUN/PROGRAM ERROR RS – RERUN/SYSTEM ERROR	Run Code PR
Actual Run Time			

PLOT #1			PLOT #2			PLOT #3		
Reel # 9----9			Reel #			Reel #		
START BLOCK 1		STOP BLOCK 999	START BLOCK		STOP BLOCK	START BLOCK		STOP BLOCK
Pen	Color	Type	Pen	Color	Type	Pen	Color	Type
#1	black	Free flow	#1			#1		
#2	blue	Free flow	#2			#2		
#3	green	Free flow	#3			#3		
#4	red	Free flow	#4			#4		
Type Paper Plain White			Type Paper			Type Paper		
Paper Width 54"			Paper Width			Paper Width		
Distance From Paper Edge to Origin 3"x3"			Distance From Paper Edge to Origin			Distance From Paper Edge to Origin		
Origin — LR RR / LF RF			Origin — LR RR / LF RF			Origin — LR RR / LF RF		
Special Instructions Use fine pen points			Special Instructions			Special Instructions		

PLOT #4			PLOT #5			PLOT #6		
Reel #			Reel #			Reel #		
START BLOCK		STOP BLOCK	START BLOCK		STOP BLOCK	START BLOCK		STOP BLOCK
Pen	Color	Type	Pen	Color	Type	Pen	Color	Type
#1			#1			#1		
#2			#2			#2		
#3			#3			#3		
#4			#4			#4		
Type Paper			Type Paper			Type Paper		
Paper Width			Paper Width			Paper Width		
Distance From Paper Edge to Origin			Distance From Paper Edge to Origin			Distance From Paper Edge to Origin		
Origin — LR RR / LF RF			Origin — LR RR / LF RF			Origin — LR RR / LF RF		
Special Instructions			Special Instructions			Special Instructions		

MACDMA Form 28
22 Nov 68

Figure 3-100

SAMPLE CALCOMP RUN REQUEST

141

PLOTTER OPERATING INSTRUCTIONS

Job Code R7917B	Job Name HAMLET MAP (3 plots)		Classification U
Agency MACCORDS-RA	Requestor Name	Phone 4254	Priority

EST. Run Time 90 min.	RUN CODES PR – PRODUCTION TE – TEST SM – SYSTEM	RE – RERUN/EQUIP FAILURE RO – RERUN/OPERATION ERROR RP – RERUN/PROGRAM ERROR RS – RERUN/SYSTEM ERROR	Run Code PR
Actual Run Time			

PLOT #1			PLOT #2			PLOT #3		
Reel # 9----9*			Reel # 9----9*			Reel # 9----9		
START BLOCK 1		STOP BLOCK 2	START BLOCK 2		STOP BLOCK 3	START BLOCK 3		STOP BLOCK 4
Pen	Color	Type	Pen	Color	Type	Pen	Color	Type
#1	Black	Free flow	#1	Black	Free flow	#1	Black	Free flow
#2			#2			#2		
#3			#3			#3		
#4			#4			#4		

PLOT #1	PLOT #2	PLOT #3
Type Paper plain white vellum	Type Paper plain white	Type Paper plain white
Paper Width 54"	Paper Width 54"	Paper Width 54"
Distance From Paper Edge to Origin 3"x3"	Distance From Paper Edge to Origin 3"x3"	Distance From Paper Edge to Origin 3"x3"
Origin LR RR LF RF	Origin LR RR LF RF	Origin LR RR LF RF
Special Instructions	Special Instructions	Special Instructions

⟵ Use Fine Pen Point ⟶

PLOT #4			PLOT #5			PLOT #6		
Reel #			Reel #			Reel #		
START BLOCK 4		STOP BLOCK 5	START BLOCK		STOP BLOCK	START BLOCK		STOP BLOCK
Pen	Color	Type	Pen	Color	Type	Pen	Color	Type
#1			#1			#1		
#2			#2			#2		
#3			#3			#3		
#4			#4			#4		

PLOT #4	PLOT #5	PLOT #6
Type Paper	Type Paper	Type Paper
Paper Width	Paper Width	Paper Width
Distance From Paper Edge to Origin	Distance From Paper Edge to Origin	Distance From Paper Edge to Origin
Origin LR RR LF RF	Origin LR RR LF RF	Origin LR RR LF RF
Special Instructions	Special Instructions	Special Instructions

DMA Form 28
Nov 68

Figure 3-101

SAMPLE CALCOMP RUN REQUEST

142

(e) There is no procedure setup for maps produced using the DPS system. A job must be set up using program R7214P. The output tape could be passed directly to DPS.

3.31 Generalized Printer Plots. These plots take a previously formatted file containing the UTM coordinates and plot characters of a USID and:

(a) Convert the UTM coordinates to X-Y coordinates.

(b) Format province printer plots at scales of either 1:250,000 or 1:500,000. A sample call deck for procedure S87Ø1C is illustrated in figure 3-102.

3.31.1 Inputs. Inputs consist of an input file, normally on tape, and three sets of control cards.

(a) The input file of data must conform to the following specifications:

(1) Variable-blocked with a maximum block size of 1004 characters (this makes the file compatible with NIPS and DPS).

(2) Record length of 27 characters:

a. 1-8 = UTM

b. 9-17 = USID

c. 18 = character to be plotted

d. 19-27 = anything else required by other applications (not used by S87Ø1C)

(b) Control cards: three sets

(1) Set #1: Program S87Ø1P requires the following control card, which determines the scale of the province plots:

a. CCI through CC4: 0250 or 0500; use of the former results in a plot scale of 1:250,000; use of the latter results in a plot at a scale of 1:500,000.

143

```
/*
0100009999
//R0101.DTLSET3  DD  *
/*
    CONTENTS OF THIS CARD WOULD NORMALLY CONSIST OF PLOT-DESCRIPTIVE INFO
112    SAMPLE ONLY
   JANUARY 31, 1971
//S8702P.CTLSET2  DD  *
/*
0500
//S8701P.DTLSET1  DD  *
//       .PLOTOUT='DSN=PLOTOUT,UNIT=2400-3,DISP=(,PASS)',DISP=KEEP
//S8701C   EXEC S8701C,NAME=R710702,INVOL='SER=001234',          X
//          (S8701C,PRC,15,5,,,;,0),R=PRODCON,MSGLEVEL=1,CLASS=B
```

Figure 3-102

SAMPLE CALL DECK

144

<u>b.</u> CC5 through CC80: not used.

(2) Set #2: Program S87∅2P requires the following control cards in the following sequence:

<u>a.</u> Card type #1:

<u>1.</u> CC1 through CC20: A provision for reflecting the date of data plotted; the indicated date is punched in free-format and is subsequently printed at the bottom right of each province plot.

<u>b.</u> Card Type #2:

<u>1.</u> CC1: a digit, from 0 through 9, which is equal to the number of control cards remaining in set #2.

<u>2.</u> CC2: scale header; a blank will result in a scale header of 1:250,000, printed at the top of each province plot; a 1 will give a header of 1:500,000.

<u>3.</u> CC3: classification header; 1 will give UNCLASSIFIED, 2 will give CONFIDENTIAL.

<u>4.</u> CC4 through CC23: plot title header; free-form; should be centered; will be printed at the top of each province plot.

<u>5.</u> CC24: listing of USIDs keyed to each plotted character; a 1 will produce the listing (via SYSOUT); a blank suppresses its printout.

<u>c.</u> Card Type #3: This card type is used in providing additional plot-descriptive information; consistent with CC3 of the above card type, anywhere from 0 through 9 cards may be used; however, only CC2 through CC80 of each card can be utilized; map legends, etc., are punched in free format and appear printed at the bottom left of each province plot.

145

(c) Set #3: Consists of the print control card of PGM RØ1Ø1; its use is described on page 3 of the booklet of CDC-developed utilities, "Special Purpose Programs."

3.31.2 Outputs.

(a) "Report" file; its DD-NAME is TAPEØ4; its desired DSNAME, UNIT, and DISP parameters are to be furnished via the PRTOUT symbolic parameter.

(b) List of USIDs whose corresponding UTM coordinates are invalid; via SYSOUT.

(c) List of USIDs of each plotted character (if control-card-invoked).

146

Appendix A

SYSTEM ABBREVIATIONS, MNEMONICS, AND TERMS

A - 1

Appendix A

SYSTEM ABBREVIATIONS, MNEMONICS, AND TERMS

ADP	Automatic Data Processing
DMA	Data Management Agency
DPS	Data Presentation System
DSA	District Senior Advisor
FWMAF	Free World Military Assistance Forces
GVN	Government of Vietnam
HES	Hamlet Evaluation System
MACCORDS	Military Assistance Command, Civil Operations and Rural Development Support
NIPS	National Information Processing System
PSA	Province Senior Advisor
QTAB	Question Directory Table
RA/A	Office of the Associate Director for Research and Analysis/Analysis
RVN	Republic of Vietnam
USAID	United States Aid for International Development
U.S.	United States
UTM	Universal Transverse Mercator

A - 2