

USER'S GUIDE TO HASE DATA, VOL. 2: THE SURVEY FILES

PATRICIA BOREN

R-2692/2-HUD

APRIL 1982

HOUSING ASSISTANCE SUPPLY EXPERIMENT

Sponsored by

The Office of Policy Development and Research
U.S. Department of Housing and Urban Development

Rand
SANTA MONICA, CA 90406

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PREFACE

This report describes the research files compiled from field surveys conducted in two metropolitan housing markets as part of the Housing Assistance Supply Experiment (HASE). The report is one of three volumes describing the experiment's 40 research files for analysts and programmers who wish to use the data.[1] The files are accessible through the Housing Research Data Center, sponsored by the U.S. Department of Housing and Urban Development (HUD) and operated by Data Use and Access Laboratories (DUALabs) in Arlington, Virginia.

The experiment was conducted by The Rand Corporation under contract with HUD. Full-scale housing allowance programs were operated under Rand's supervision in Brown County, Wisconsin, and St. Joseph County, Indiana. To determine the programs' effects on each housing market and community, Rand conducted 32 surveys in four annual cycles in each site. The surveys included interviews with the owners and occupants of a marketwide sample of properties, and field observations of their buildings and neighborhoods.

The survey data are contained in 32 files. This report explains how those files are organized and how they relate to each other, describes the contents of each, and offers advice about file processing and analytic uses of the data.

This report was written under the guidance of E. Wayne Hansen and Christine D'Arc. Molly McMullen assisted in preparing the description of file contents in Sec. II and in compiling and formatting the technical appendixes. Evelyn C. Casper developed the plan for modifying variables to protect respondents' confidentiality, and drafted Appendix A.

[1] The overall experimental design and the roles of the allowance program and surveys are explained in E. Wayne Hansen and Christine D'Arc, User's Guide to HASE Data, Vol. 1: Overview, The Rand Corporation, R-2692/1-HUD, forthcoming. The files of client data collected in the allowance program are covered in Ann W. Wang, User's Guide to HASE Data, Vol. 3: The Program Files, The Rand Corporation, R-2692/3-HUD, forthcoming.

This report was prepared for HUD's Office of Policy Development and Research, pursuant to HUD Contract H-1789, and fulfills Task 2.20 of that contract.

SUMMARY

The Housing Assistance Supply Experiment (HASE) was part of a Congress-mandated investigation into the desirability of direct cash allowances to help low-income households maintain decent housing. From 1974 through 1979, HASE supervised a housing allowance program in Brown County, Wisconsin, and St. Joseph County, Indiana, and studied the program's effects on the local housing market. The experiment yielded 40 research files: 8 program files contain data on program operations and client characteristics, and 32 survey files contain data from field surveys of the housing market. This report describes the survey files and offers guidance for using them.

THE SURVEYS

Four annual cycles of field surveys were conducted in each experimental site to monitor the program's effects on the local community. The residential surveys were addressed to the HASE panel, a marketwide sample of about 2,000 residential properties in each site. To keep current with residential development, the panel, was annually augmented with a sample of properties containing newly constructed residences. Other surveys gathered data on all neighborhoods in the county from public records and field observations. The survey types are briefly defined below (underscores identify the sample element).

- Landlord survey--interviews with owners of sampled rental properties about property management and finances.
- Household survey--interviews with tenants and homeowners of housing units on sample properties about their households, housing characteristics, and housing expenses.
- Residential building survey--observations of physical characteristics, condition, and immediate environs of residential buildings on sampled properties.

- Neighborhood survey (two parts)--compilation of secondary-source data on characteristics and facilities of each neighborhood in the county; observations of the features and condition of each street segment (both sides of a length of street between intersections) in the county.

The first or baseline wave of the surveys was conducted in 1974 in Brown County (Site I) and in 1975 in St. Joseph County (Site II), in each case just before the allowance program began enrolling clients. The subsequent waves were conducted annually for three years thereafter. All survey fieldwork was subcontracted.

THE FILES

The survey cycles yielded 16 files per site: four each for the landlord, household, and residential building surveys (waves 1 through 4) and two each for the neighborhood surveys (waves 1 and 4). Each file contains one fixed-length record for every sample element in the survey type, site, and wave represented. Besides the variables obtained directly from survey instrument responses, the records contain a number of derived variables, added for their analytic usefulness. They consist of aggregations and other transformations of survey responses, data from other sources, indicators for selecting subsamples, and record weights. Each file has a machine-readable dictionary giving the alphanumeric name, location, and length of every variable. Each file is documented by a codebook that defines and provides response distributions for the variables, and an audit report that assesses the completeness and reliability of the data.

USING THE FILES

Since interviews and observations were not always completed for the entire sample list, the number of analytically usable records is considerably smaller than the total number of records in a file. Indicators for completeness and other record conditions permit users

to select records that contain the types and amounts of data desired and represent the sample elements of interest.

Within a site, records for related sample elements can be linked across survey types in the same wave, or across waves in the same survey type. Other links--such as a longitudinal account pertaining to a landlord and his tenants--pose some problems, for which guidelines are given. Because the numbering systems for identifying sample elements overlap in the two sites, records should not be linked across sites.

A topical index of all variables enables users to determine quickly whether the survey files contain the information they are seeking and where it is found. Changes in the survey instruments from wave to wave resulted in altered names and sequences of corresponding variables across files. A cross-wave index permits users to trace the shifts. To protect the confidentiality of survey responses and the identities of respondents, it was necessary to alter the values of certain variables. The specific changes are detailed.

For analytic designs that require deriving population parameters from sample data, the HASE survey records must be weighted to obtain unbiased estimates. We computed a set of exact sampling history weights and a set of "field-complete" weights to be applied to the analytically usable records. We found that the field-complete weights generally produced good estimates. We also calculated special-purpose weights for the files of particular survey types.

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The first of the year was a very
successful one for the
company. The sales were
very good and the
profits were high.

The second of the year was
also a very successful one
for the company. The sales
were very good and the
profits were high.

The third of the year was
also a very successful one
for the company. The sales
were very good and the
profits were high.

The fourth of the year was
also a very successful one
for the company. The sales
were very good and the
profits were high.

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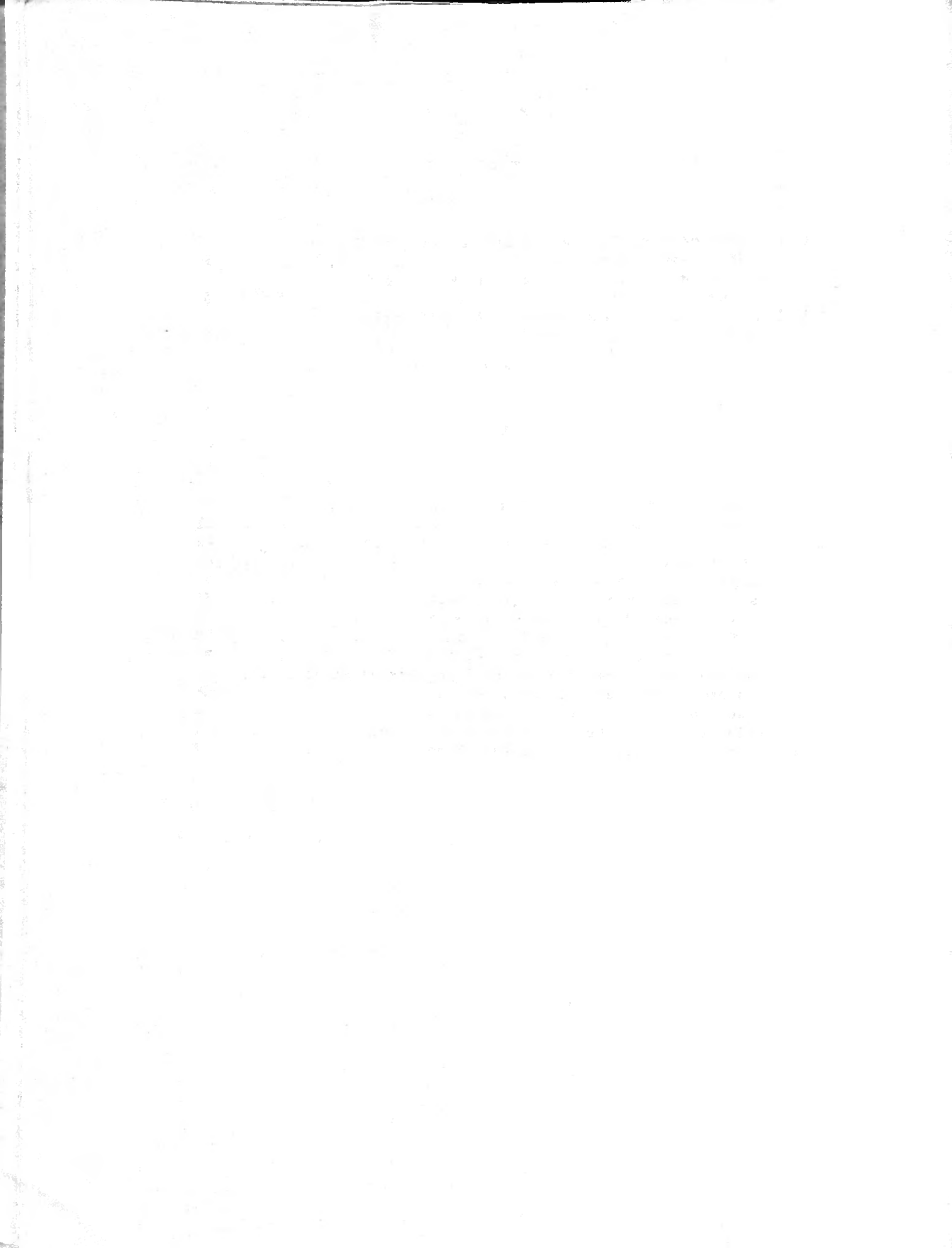
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ABBREVIATIONS

ATP (alternate tax parcel) number--identifier for sampled property.

ATP-BLDG number--identifier for sampled residential building.

ATP-BLDG-UNIT number--identifier for sampled housing unit.

DUALabs--Data Use and Access Laboratories.

HASE--Housing Assistance Supply Experiment.

HUD--U. S. Department of Housing and Urban Development.

LIS--landlord information sheet.

LL--landlord survey file, usually followed by a site-wave abbreviation (e.g., LL12).

NO--neighborhood street observation survey file, usually followed by a site-wave abbreviation (e.g., NO14).

NS--neighborhood local sources survey file, usually followed by a site-wave abbreviation (e.g., NS14).

POS--previous owner supplement to the landlord survey instrument.

RB--residential building survey file, usually followed by a site-wave abbreviation (e.g., RB12).

Site I--Brown County, Wisconsin (metropolitan Green Bay).

Site II--St. Joseph County, Indiana (metropolitan South Bend).

Site-wave abbreviations:

11 Site I, wave 1 (baseline)	21 Site II, wave 1 (baseline)
12 Site I, wave 2	22 Site II, wave 2
13 Site I, wave 3	23 Site II, wave 3
14 Site I, wave 4	24 Site II, wave 4

TH--household survey file (originally called the "tenant/homeowner survey file"), usually followed by a site-wave abbreviation (e.g., TH12).

TH/IS--household information sheet.

The first part of the report deals with the general situation in the country and the progress of the work done during the year.

The second part of the report deals with the work done in the various departments during the year.

The third part of the report deals with the work done in the various departments during the year.

The fourth part of the report deals with the work done in the various departments during the year.

The fifth part of the report deals with the work done in the various departments during the year.

The sixth part of the report deals with the work done in the various departments during the year.

The seventh part of the report deals with the work done in the various departments during the year.

The eighth part of the report deals with the work done in the various departments during the year.

I. INTRODUCTION

The Housing Assistance Supply Experiment (HASE) conducted an experimental housing allowance program in two north central metropolitan areas to determine whether direct cash assistance to low-income households was a feasible and desirable way to help them secure decent housing. To monitor the effects of the experimental program on the housing markets and communities in which the program operated, Rand embarked on an ambitious program of data collection. Thirty-two field surveys were conducted in four annual cycles from 1973 to 1977 in Brown County, Wisconsin (Site I), and from 1975 to 1979 in St. Joseph County, Indiana (Site II).[1] The survey agenda was large and complex, with separate but linked interview surveys of landlords and households, and field observations of residential buildings and neighborhoods.

The 32 research files yielded by the surveys, together with the 8 files of client data from the allowance program,[2] constitute a rich resource not only for HASE analyses but for other research on housing and urban problems. Specifically, the survey files should be useful to those interested in housing consumption patterns and policy, residential repair and rehabilitation, residential mobility, rental property management and finance, and housing market structure and dynamics.

This volume provides technical guidance for programmers and analysts in using the files. The rest of this introduction gives essential background information, briefly describing the surveys and preparation of the survey files. Section II delineates the organization and contents of the files. Section III offers specific

[1] For a description of the experimental design and the roles of the allowance program and surveys, see E. Wayne Hansen and Christine D'Arc, User's Guide to HASE Data, Vol. 1: Overview, The Rand Corporation, R-2692/1-HUD, forthcoming.

[2] The program files and their use are explained in Ann W. Wang, User's Guide to HASE Data, Vol. 3: The Program Files, The Rand Corporation, R-2692/3-HUD, forthcoming.

guidelines for selecting analysis subsamples and linking records to obtain more complete information. Section IV discusses how the records can be weighted to estimate population parameters. Section V reviews the relevant HASE literature for those who require further information on the origin and preparation of the files.

PURPOSE OF THE SURVEYS

The HASE surveys were of four types. Three of the types were directed to the HASE panel, a marketwide probability sample of about 2,000 residential properties in each site. The panel was regularly augmented with property samples to ensure that it was representative of the local housing market. In the landlord survey, the owners of sampled rental properties were asked to supply information about the property, its finances, management, revenues, expenses, and recent repairs or improvements. In the household survey, their tenants were asked about the characteristics of their dwelling, views on their housing, their housing expenses, and their household composition, residence, and employment history. Homeowners were asked to supply both property and household information. All respondents to the landlord and household surveys were asked about their knowledge and opinions of the allowance program. Interviews typically lasted about 90 minutes and gathered about 500 items of information. In the survey of residential buildings, field observers recorded the physical characteristics and condition of buildings on sampled properties. Figure 1.1 depicts the relation between the foregoing three residential survey types, their respondents, and their sample elements.

The fourth survey type, the neighborhood survey, collected information on all neighborhoods and streets in the county by means of secondary research and field observations.

SURVEY ADMINISTRATION

All four survey types were conducted at baseline (wave 1), just before the allowance program began in each site. Thereafter, the landlord and household surveys were conducted annually through wave

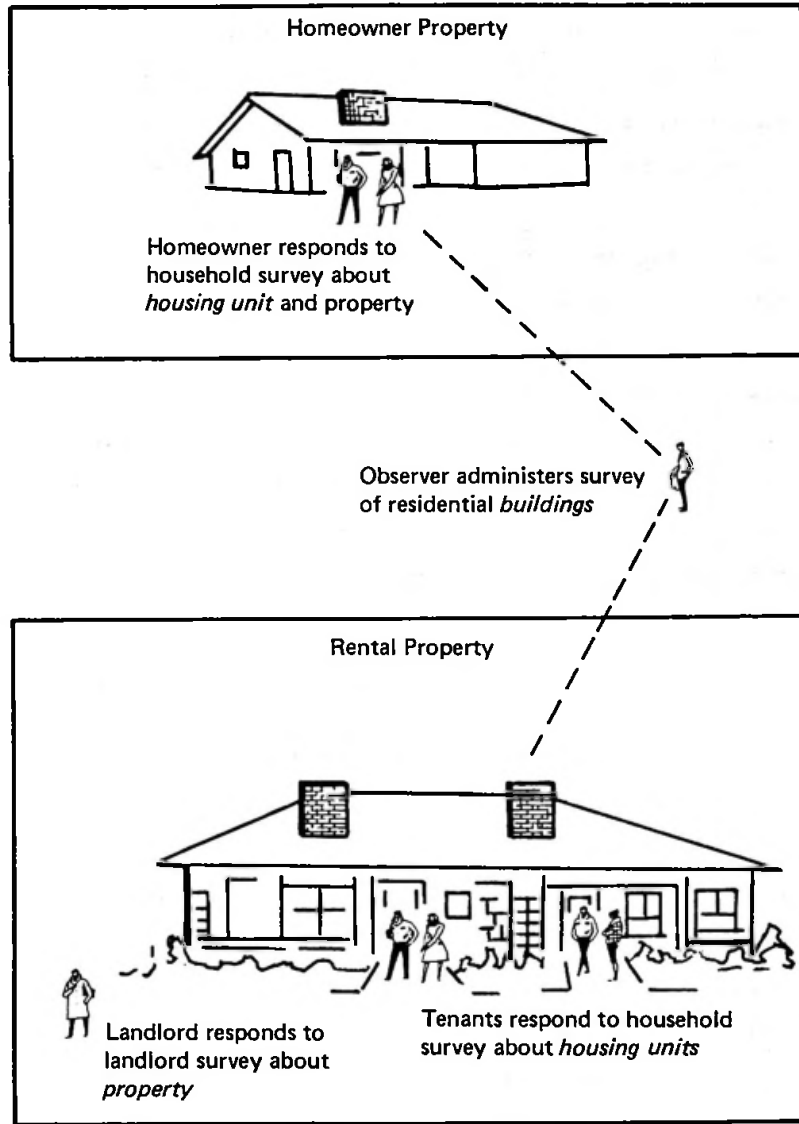


Fig. 1.1 — Relation between respondents and *sample elements* in HASE residential surveys

4. Although the residential building survey was intended for annual administration, comparison of the baseline and wave 2 results in Site I showed so few changes that we decided not to survey the full sample again until the last wave. Therefore, administration of the intervening residential building surveys (Site I, wave 3, and Site II, waves 2 and 3) was confined to the new buildings on previously empaneled properties and the panel augmentation samples. By design, the neighborhood surveys were conducted only at the first and last waves. Figure 1.2 depicts the timing of the 32 surveys in relation to the allowance program. Because of the six-month difference in the opening of the allowance program in the two sites, the survey waves in Site II lagged a year behind those in Site I.

Fieldwork was subcontracted. In Site I, Mathematica, Inc. conducted the baseline surveys; the National Opinion Research Center conducted waves 2 through 4. In Site II, all surveys were conducted by Westat, Inc. The subcontractors hired a local staff of interviewers and observers and trained them according to a manual prepared or approved by Rand.

FILE PREPARATION

At the end of fieldwork for a particular survey (say, wave 2 of the Site I landlord survey), the completed questionnaires were sent to Rand, where verbatim responses were coded and all responses were entered into machine-readable records. The records were then edited and collated into a preliminary master file. We next audited that file--accounting for the sample by checking each record received from the field against the master sample list and resolving any discrepancies; checking response distributions for implausible values; and calculating weights for individual records so that they would collectively represent the sampled populations. We also augmented the file with derived variables, consisting of transformations of original survey responses, data from other sources, and sample-selection indicators. After correcting any errors in the derived variable data, we archived the augmented survey file as a final master file.

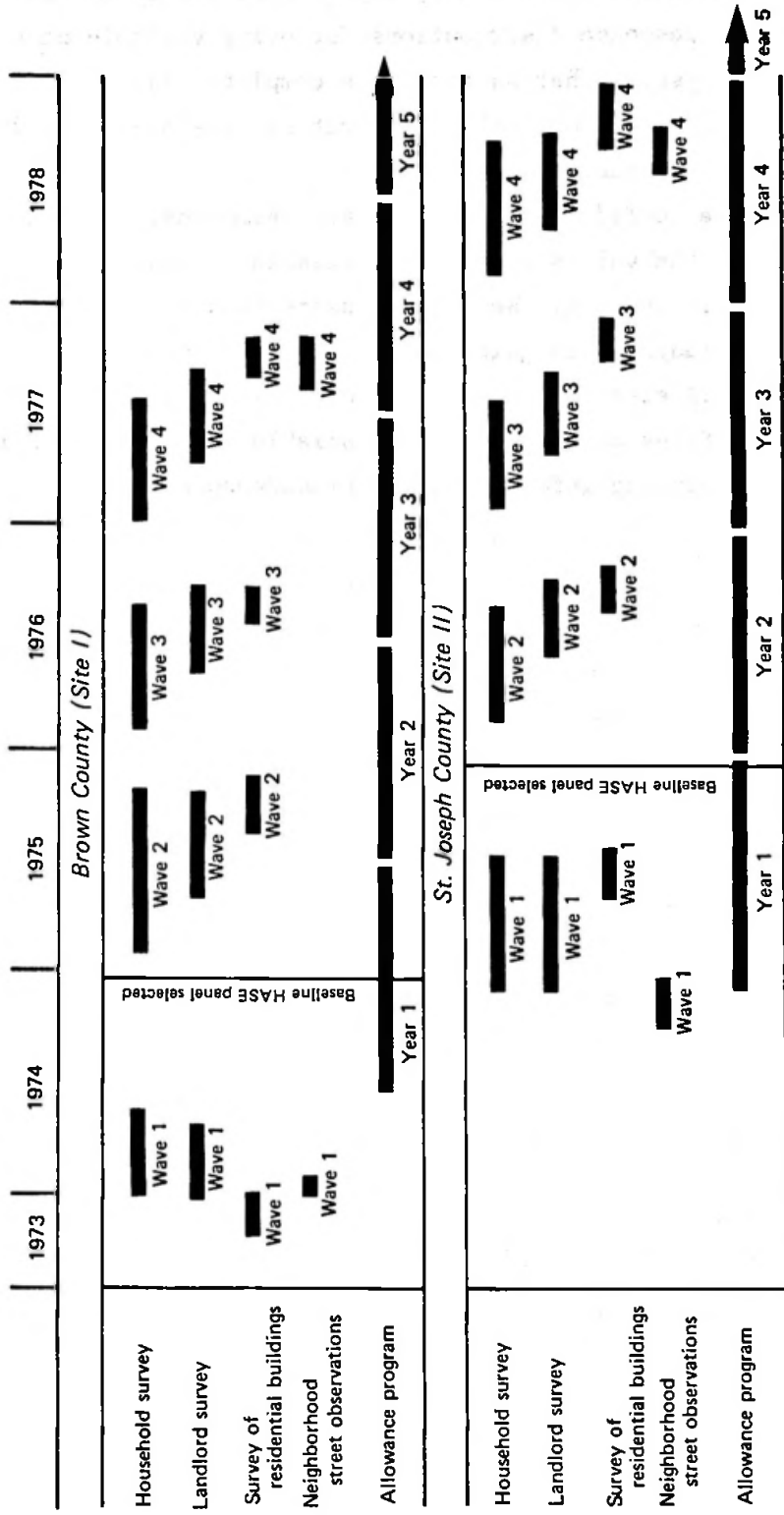


Fig. 1.2—Timing of HASE survey fieldwork in relation to allowance program

Each survey file is documented by one or more codebooks that define and provide response distributions for every variable on the file, and an audit report that assesses the completeness and reliability of the data. Codebooks and audit reports are individually listed under "File Documentation" in Sec. V.

To protect the confidentiality of survey responses, we found it necessary to alter the values of certain variables. Appendix A details the specific changes. We caution users that all file documentation (including this guide unless otherwise specified) pertains to the unaltered files. Therefore, many response frequencies obtained from the files and even certain variable definitions will differ from corresponding information in the codebooks.

II. FILE ORGANIZATION AND CONTENTS

This section describes how the survey files are organized and traces the evolution of their contents over the course of the experiment.

FILE ORGANIZATION

Each of the 32 HASE surveys generated a data file. The landlord (LL), household (TH), [1] and residential building (RB) survey types, conducted in all four cycles in the two sites, are represented by eight files each. The neighborhood local sources (NS) and neighborhood street observation (NO) survey types, conducted only at waves 1 and 4, are represented by four files each.

A data file contains one fixed-length record for every element in the sample for the survey type, site, and wave represented. [2] The sample elements vary by survey type, as follows:

<u>Survey type</u>	<u>Sample element</u>
Landlord	Property
Household	Housing unit
Residential building	Building
Neighborhood local sources	Neighborhood (HASE-defined)
Neighborhood street observation	Street segment

For example, the TH12[3] file contains a record for each of the 3,389 housing units on the household survey sample list for Site I, wave 2.

[1] The household survey was originally called the "survey of tenants and homeowners," a term that is reflected in much of the survey file documentation.

[2] The exceptions are the baseline survey files, which contain a record for each sample element chosen for the baseline HASE panel, a subset of the full baseline sample.

[3] "TH12" is an example of HASE shorthand adopted to refer to the survey files. The two letters signify survey type; the numbers indicate site and wave, respectively. Where necessary to avoid awkwardness, we use the shorthand forms throughout this volume.

The records vary widely in amounts of usable data. Field-complete records--the subset representing completed interviews or observations--contain the most analytically useful data. But even the largely blank records representing vacant housing units, buildings converted to nonresidential use, and households who refused an interview contain a field history and final status that would be useful in an independent reanalysis of the full sample.

Table 2.1 enumerates the total and field-complete records on the 32 HASE survey files by survey type, site, and wave. The completion rate (the ratio of field-complete to total records) indicates how much of each sample was successfully surveyed. As expected, the surveys not requiring respondent cooperation, the residential building and neighborhood surveys, show the highest completion rates.

Record Structure

Because of the size and complexity of the HASE data base, conventions were needed to preserve order and facilitate use of the files. To that end, we devised a standard format for entering survey data on a record; established conventions for naming variables; and compiled a dictionary to describe each variable and indicate its location on the file.[4]

The HASE record format specified the mode and arrangement of parts in each record so that different records and different files could be processed by common utility programs. To keep the design simple, only two types of data were allowed: character and 32-bit floating-point binary. The character type was used for variables with alphanumeric codes that lended themselves to linking or selecting records; the binary type was used for all other variables to facilitate mathematical computations.

[4] The descriptions that follow are specific to the Rand system. DUALabs may have changed some of the details; users should also refer to DUALabs Staff, Housing Research Data Center User Manual, Vol. 3: Primer of On-Line Access Procedures, June 1981.

Table 2.1

SUMMARY OF RECORDS ON HASE SURVEY FILES

Survey Wave	Brown County (Site I)			St. Joseph County (Site II)		
	Total Number of Records	Number of Field-Complete Records ^a	Completion Rate ^b	Total Number of Records	Number of Field-Complete Records ^a	Completion Rate ^b
<i>Landlord Survey</i>						
Wave 1	1,318	1,318	1.00 ^c	1,417	1,404	.99 ^c
Wave 2	1,360	1,105	.81	1,444	915	.63
Wave 3	1,347	935	.69	1,394	935	.67
Wave 4	1,314	910	.69	1,346	831	.62
All waves	5,339	4,268	.80	5,601	4,085	.73
<i>Household Survey</i>						
Wave 1	3,293	2,712	.82	3,559	2,066	.58
Wave 2	3,389	2,472	.73	3,603	1,958	.54
Wave 3	3,541	2,360	.67	3,696	2,143	.58
Wave 4	3,621	2,424	.67	3,686	2,103	.57
All waves	13,844	9,968	.72	14,544	8,270	.57
<i>Residential Building Survey</i>						
Wave 1	2,153	2,116	.98	2,515	2,366	.94
Wave 2	2,225	2,075	.93	10	6	.60
Wave 3	139	107	.77	140	131	.94
Wave 4	2,325	2,263	.97	2,557	2,429	.95
All waves	6,842	6,561	.96	5,222	4,932	.94
<i>Neighborhood Local Sources Survey</i>						
Wave 1	108	108	1.00	86	86	1.00
Wave 4	108	108	1.00	86	86	1.00
All waves	216	216	1.00	172	172	1.00
<i>Neighborhood Street Observation Survey</i>						
Wave 1	8,084	8,084	1.00	12,152	12,152	1.00
Wave 4	9,315	9,256	.99	12,933	12,852	.99
All waves	17,399	17,340	1.00	25,085	25,004	1.00

SOURCE: Tabulated by HASE staff from the final master files for all surveys.

^a Records representing completed interviews or observations.

^b Field-complete records divided by total records.

^c Properties empaneled from a larger number surveyed at baseline. One of the empanelment criteria was complete baseline records (for rental properties, a landlord interview and at least one tenant interview; for homeowner properties, an interview with the owner-occupant).

Each record captures information related to a particular survey interview or observation for the sample element represented. The information is presented in five sections:

Header. The header consists of identifiers used to match, select, and track records across survey types and time. Therefore, header variables have the same names across files. All fields are in character type; if not used, they are left blank.

Identifiers. Following the header, free space is allotted for additional identifiers determined during analysis. Identifier fields contain character data and vary in length. Unused fields are left blank.

Indicators. Indicators, which define analytic subsamples, are each 1 byte long and contain character data, usually code 0 or 1.

Survey variables. Survey variables compose the bulk of the record and contain all information gathered in the interview or observation. They are in binary form. A field is provided for every item in the survey instrument that called for a response from either the respondent or fieldworker. Fields lacking actual survey responses contain an audit code explaining the absence of a response.

Analytic variables. Analytic variables are aggregations or transformations of survey variables into analytically useful elements. These fields are binary and 4 bytes long. Unused fields contain audit code -11 or -23.

Collectively, identifiers, indicators, and analytic variables are called derived variables because they are derived from survey data.

Variable Naming Conventions

The header variables have standard mnemonic names (see Table 2.2). Survey variables were individually named to correspond with question numbers in each survey instrument. Therefore, a variable with the same name but in another file may not contain the same information. A survey variable name can have as many as five parts:

- Letter representing the module (section) in the instrument (A, B, C, etc.).

Table 2.2

HEADER VARIABLES

Name	Description	Survey Type
FILENAME	Name of the survey	All
SITENAME	Site and wave	All
ATP	Alternate tax parcel number	LL, TH, RB
BLDG	Building number	TH, RB
UNIT	Unit number	TH
HH1ID	Identifier for male household head	TH
HH2ID	Identifier for female household head	TH
ORID	Identifier for owner of record	LL, TH, RB
DRID	Identifier for designated respondent to landlord survey	LL, TH, RB
CBLOCK	Census block	LL, TH, RB, NO
CED	Census enumeration district	LL, TH, RB, NO
TRACT	Census tract	LL, TH, RB, NO
NBHDCE	Neighborhood code	All
NBHDSEG	Neighborhood street segment	NO
FILL001	Filler for correct alignment	LL, TH, RB

SOURCE: Tabulated by HASE staff.

- For the household survey, respondent type (T = tenant, H = homeowner, M = mobile home resident, L = lodger).
- Question number.
- The letter "Z" to denote subparts of the question. For readability, the delimiter Z appears as a colon (:) in all file documentation.
- Question subparts--numbers, letters, or both.

For example, the variable name BL25Z6 (in the codebook, BL25:6) signifies the 6th part of the 25th question in module B, addressed to lodgers.

Derived variables were named by the analysts who defined them. The names are either mnemonics such as CODEBK and HHRACE or letter-number combinations such as X1 and Y25. Across files, derived

variables with identical names provide the same information. For example, the variable X1 always indicates the number of residential units on a landlord's property at a particular wave; CODEBK always indicates whether a record is included in a particular file. Though derived variables with the same name describe the same thing, their constructions may differ, as required by the survey instrument.

Besides a common name, each derived variable has a default name, or alias, by which the data can be accessed. The aliases are grouped into three ranges depending on the section of the record: ID000001 to ID0000xx for identifiers; INDO0001 to INDO00xx for indicators; and fnXX0001 to fnXXxxxx for analytic variables. The abbreviation "fn" refers to the survey type (LL, TH, RB, NS, or NO) and the lowercase "x"'s stand for the highest number of variables on the file. Either the common name or the alias can be used to identify a derived variable.

All variable names have one to eight characters consisting of the letters A to Z and the numbers 0 to 9.[5]

Variable Dictionary

To keep track of each file, we compiled a machine-readable dictionary of the contents. It contained the name and alias of each variable on the file; the location of each variable in a record; the data type and length of each variable; and, for derived variables, a capsule description and permissible values.

FILE CONTENTS

Apart from the header, the records in each file consist of survey variables and the variables derived from them. Therefore, the most efficient way of describing the contents of the HASE survey files is to describe the survey instruments on which the variables are based.[6]

[5] Because the Housing Research Data Center's system is limited to six-character variable names, DUALabs has altered many of the variable names appearing in this and previous HASE documentation. To track the changes for specific variable names, see the cross-index available on-line at the Data Center.

[6] A detailed topical index of all survey and derived variables is provided in Appendix B.

The survey instruments were designed by Rand and approved by HUD and the U.S. Office of Management and Budget. Questions were taken from various sources, including the U.S. Bureau of the Census. Sometimes questions were repeated in the instruments of more than one survey type as a reliability check.

For ease of administration, the instruments were usually divided into modules of related questions. Skip patterns were incorporated in most questions to direct different responding samples to appropriate subsequent questions. For example, question 5 from a landlord survey instrument asked:

5. (Do you/Does the owner/Does the firm) currently own any other rental housing property in the county--that is, property other than the one this interview is about?

YES..... 1
NO...(GO TO Q.8)..... 2

A landlord who said he did not own other rental properties in the county was thus skipped over questions 6 and 7 about the number of those properties and how many residential units they contained. Sometimes respondents were skipped over entire modules. For example, the module concerning the landlord's experience and activity in real estate applied to the landlord himself, not the sampled property. Therefore, the first question in that module asked whether the respondent had given real estate information in an interview about another sampled property. If so, the interviewer was directed to go to the next module.

To reduce the burden on the respondent as the surveys continued, we added more skip patterns. For example, a series of questions was incorporated in the wave 4 landlord and household surveys (a) to determine whether the respondent had provided complete mortgage/loan information at wave 3 and if so, whether the terms had changed; and if they had not, (b) to skip him over the mortgage/loan questions.

Besides reducing the burden on the respondent, instrument changes were made to meet new analytic requirements and resolve minor fielding

problems. As appropriate, questions were added, dropped, combined, and divided. A change in the instrument for one survey type (usually the landlord) often triggered a corresponding instrument change for another type (usually the household). The following pages delineate the successive survey instruments for the landlord, household, residential building, neighborhood local sources, and neighborhood street observation surveys.[7] For each type, we describe the Site I, wave 1 instrument in detail, then outline the cumulative changes in later administrations.[8] Descriptions are arranged in the order the surveys were actually administered (from one site to another) rather than in wave order within each site.

Landlord Survey Instruments

For the landlord survey, we sought interviews with current owners of rental properties and previous owners of properties that had changed hands since the prior survey wave. We defined "owner" broadly, disregarding the legal form of ownership (proprietorship, partnership, or corporation), the position of the respondent (sole or co-owner, employee of a corporate owner, or representative of either), the nature of the owner's rental holdings (residential only, mixed residential-nonresidential), the number or geographic concentration of properties owned, and type of building owned (single-family dwelling, multiunit dwelling, or mobile home). Sometimes we had multiple respondents for the same property; the owner might answer questions about tenant policy but refer the interviewer to his accountant regarding property finances. The sample element was a property rather than a person, so respondents who owned more than one sampled property were interviewed about each (with certain exceptions, mentioned below).

Unless otherwise noted, information was sought for the calendar year preceding the interview.

[7] Reproductions of the instruments appear in the main-survey codebooks, listed under "File Documentation" in Sec. V.

[8] Here we focus on the changes of substance; changes in variable sequence and names from wave to wave are traced in Appendix C, "Cross-Wave Indexes of Survey Variables."

Site I, Wave 1

Introduction and Verification. The preliminary module verified the name of the owner and the form of ownership, and determined the proper respondent for each of the questionnaire's main subdivisions. It thus informed the interviewer whether someone other than the owner was the appropriate respondent, how to contact him, and which modules should be addressed to him.

Acquisition and Ownership of Property. The second module began with questions about when, how, and why the property was obtained. Motive for acquisition helps explain why landlords differ in their supply responses to changes in effective demand for housing. For example, a landlord who acquires a property for current income probably uses different operating policies than one who buys it for capital gains. A property intended to generate revenue might be more affected by short-term changes in market conditions than a property held for long-run capital gains or eventual redevelopment. Subsequent questions asked whether the landlord had ever resided on the sampled property, which is important because direct communication between owner and tenants could affect tenant satisfaction.

Experience and Activity in Real Estate. Here the instrument probed the extent of the landlord's real estate activity and his market sources of information. The data indicate whether landlords who pursue their real estate interests full-time perceive and respond to changes in market demand sooner than those involved only part-time. A professional landlord with large holdings has better access to market information so should have a more sophisticated understanding of economic opportunities than one who rents out just a few units.

If a landlord owned more than one sampled property, this module was asked just once, since the subject was the landlord rather than a specific property. The responses were then copied onto the records of the other sampled properties he owned.

Property Description and Revenues. The fourth module elicited detailed information about the sampled property: the current use and age of the buildings, and major structural alterations or changes in

use. The property's history and present configuration might influence the current owner's response to changes in effective demand.

In addition, this module obtained data on gross and net revenues, both actual and imputed, and recent revenue changes. Revenues relating to residential tenants were reported separately from those relating to commercial tenants. Imputation was necessary to calculate the value of free or reduced rent granted by the owner to himself, his relatives, or other preferred tenants (e.g., friends and elderly or long-term residents). Actual rent received plus the value of losses due to vacancies, bad debts, and rent waivers yields full market rent, which is needed to standardize landlord accounts and perhaps explain unusual rent policies.

Management, Maintenance, and Operating Costs. This module elicited the landlord's expenses for managing and maintaining the property, including labor costs for direct employees, the value of unpaid labor performed by the landlord and his friends or relatives, and utility expenses. Related nonfinancial information was also gathered when appropriate. For example, when obtaining fuel cost, the instrument asked the type of heating equipment used.

Expense information reveals the scope and complexity of the landlord's real estate investment holdings. An owner with access to professional advice on management, legal matters, and accounting probably operates quite differently from one without such help. The landlord's current use of service contracts (e.g., furnace maintenance agreements) and real estate brokers, agents, and rent collection companies establishes a baseline for comparing his use of those market intermediaries in later years.

Repairs and Improvements. This portion of the instrument covered the types and costs of repairs, both major and minor, including who performed the work and whether the repair was an operating expense or a capital improvement. Capital changes, along with an appraisal of the property's market value, suggest the owner's investment position. The annual amount he spends on repairs and how he distributes it among improvement types give clues to his supply response behavior. When the component repair costs are adjusted for

normal inflation, price and quantity changes can be calculated. Tenants' satisfaction with their housing is also affected by repairs.

Mortgage, Taxes, and Insurance. This module determined the costs associated with loan amortization, tax payments, and insurance premiums. The absolute amount of those costs, as well as their relation to all other expenditures, influences owners' supply responses. Related questions ascertained the grantor of any mortgage, the terms of agreement, and problems encountered. The purchase date and financing terms help establish the market value of the structure and similar buildings.

Landlord-Tenant Relationships. To provide further clues concerning landlords' supply responses, this module sought information about relations with their tenants: rent collection problems, turnover rates, lease policies, tenant complaints, and tenant selection policies.

Perception of Neighborhood. The supply response to increased housing demand probably reflects landlords' perceptions of the economic opportunities afforded by their real estate investment holdings. This module captured a key factor in assessing economic opportunities--the landlord's perception of the neighborhood surrounding his property and the quality of his building compared with those nearby.

If a landlord believes that a neighborhood is physically deteriorating, he may also believe that property values are falling and avoid making major outlays for rehabilitation. Similarly, if a landlord thinks that changes in the neighborhood's social or ethnic composition may soon lower the rent level or increase the rate of deterioration, he may hesitate before undertaking major capital improvements. Closely related is the landlord's perception of how favorably his property compares with surrounding properties. To understand a landlord's rationale for investment, one must understand his perception of the competition.

If a landlord owned more than one sampled property on the same block, this module was administered just once. Responses were then

copied onto the records for the landlord's other properties on the block.

Plans for Property. This module asked the landlord to explain his plans for the property, including future improvements, rent policies, and intentions to sell. His estimate of its market value, satisfaction with its financial return, and reasons for intending to sell were also explored. A final series of questions determined whether the landlord knew about the housing allowance program. If he had prior knowledge, his responses might be biased, or he might already have taken action in anticipation of subsidy payments.

Supplementary Forms. On the contact card the interviewer recorded the date and time of contact with the respondent. Space was provided for multiple contact attempts. The validation form recorded the results of brief reinterviews conducted to check the quality of fieldwork. Validation respondents were randomly chosen from those who had completed interviews. The reinterview verified that certain questions were asked in the original interview and repeated certain other questions. The validation form had separate versions for single-unit and multiunit properties. When a respondent refused to be interviewed, the circumstances were fully recorded on the refusal form. It identified how the refusal was made, by whom, and for what reason. The strength of the refusal was also indicated, and the respondent's statements were reproduced as closely as possible. Based on that information, field staff decided whether the respondent might be persuaded to change his mind. The respondent's personal characteristics--sex, age, and race--were also recorded to help determine if specific groups were being systematically excluded from the study.

Site II, Wave 1

Property Description and Revenues. To reduce respondent burden and resolve fielding problems encountered during the LL11 survey, revenue questions were made more detailed. Questions were added to verify that only the income from the residential part of the property

(not the farm or commercial part) was reported. A set of questions regarding federal housing subsidies was added.

Management, Maintenance, and Operating Costs. Provision was made to record utility costs in the aggregate; many landlords received one bill for two or more utilities so were unable to distinguish individual costs.

Evaluation of Housing Allowance Program. A new "attitude" module was added for probing respondents' awareness, opinions, and expectations of the allowance program. The LL11 survey had been conducted well before the program began, so questions about it were inappropriate then. In Site II, however, the first survey overlapped the beginning of enrollment. The attitude module was administered just once to landlords holding more than one sampled property. Unlike the rest of the instrument, most attitude questions were open-ended, and interviewers recorded the responses verbatim.[9]

Supplementary Forms. The vacancy supplement and previous owner supplement (POS) were added. The vacancy supplement reported the habitability of vacant properties. The POS enabled us to collect full-year data by obtaining information from owners who had sold the property during the previous year. (Because the sampling element is the property, we need full-year data about it regardless of owner.) For the portion of the year not covered by the current owner, the interviewer recorded the previous owner's description of the property and his income and expenses for management, maintenance, repairs, improvements, value of unpaid labor, mortgages, taxes, and insurance. Nearly all questions were taken directly from the main survey instrument.

The contact card was expanded into the landlord record folder, a form on which the interviewer recorded basic interview information: the date and time of contact with the respondent, whether the contact was in person or by phone, and the result (completion of interview,

[9] This part of the instrument is documented in an attitude-module codebook for this and each later landlord survey file (see "File Documentation" in Sec. V).

refusal to be interviewed, failure to contact, etc.). The two versions of the validation form were merged.

Site I, Wave 2

Property Description and Revenues. Divided into two modules, "Property Description" and "Income." The former was expanded to include questions about how the property had changed during the past year; if it had not changed (e.g., no units or land added or removed), the respondent was skipped over a number of questions to relieve him of repeating information collected the previous year.

Management, Maintenance, and Operating Costs. Retitled "Expenses."

Supplementary Forms. Space was added to the refusal form (retitled refusal/breakoff form) to explain the circumstances when respondents prematurely terminated an interview. The vacancy supplement was dropped because its questions were incorporated in the introductory module of the instrument proper.

Site II, Wave 2/Site I, Wave 3 (Identical Instruments)

The instrument was altered to reduce the burden on prior-wave respondents. Data on the property's address, description, and ownership were collected at the beginning of fieldwork and printed on a landlord information sheet (LIS) attached to each instrument. At various points in the interview, the respondent was asked to verify LIS information; if it was correct, he was skipped over several subsequent questions.

Acquisition and Ownership. Prior-wave respondents were exempted from this module by a new skip pattern.

Repairs and Improvements. The module was augmented with questions on whether a market intermediary such as a building contractor participated in the repair, how the repair was financed, and the landlord's satisfaction with the work.

To yield more accurate data, questions regarding the value of unpaid labor on the property were altered to elicit hourly instead of yearly estimates.

Neighborhood. Nearly 20 questions about the types of people living in the neighborhood and the landlord's opinion of them were replaced by 3 open-ended questions whose answers were recorded verbatim.

Plans for Property. Questions on the landlord's plans for improvement and maintenance of the property were simplified.

Supplementary Forms. The POS was expanded to include information on repairs, improvements, and the value of unpaid labor for time periods inadvertently missed before. The survey schedule and the design of the original POS caused gaps in gathering full-year data for properties that changed hands. The interviews were conducted in April but sought information for the previous calendar year. With the original POS, if a property was sold between January and April, we lost information for whatever period during that quarter the previous owner held it.

To provide the missing information, we separated the POS into three sections. Section 1 resembled the original POS in obtaining financial information for the period in 1975 that the previous owner held the property. Section 2 covered repairs, improvements, and unpaid labor for early 1976 (thereby providing data for the next-wave LL23/LL14 surveys), and sec. 3 covered the same for early 1975. (Had sec. 2 been part of the LL21/LL12 POS, there would have been no need for sec. 3 here; likewise, adding sec. 2 here obviated the need for sec. 3 in the LL23/LL14 surveys.) Depending on when the property was sold, any or all of POS secs. 1-3 could be asked in addition to or in place of the main instrument. Two examples are diagrammed in Figure 2.1.

Owner A held property 1 until September 1975; he answered the LL22 POS, sec. 1 (to augment the main instrument completed by owner B, the current owner), thus completing the 1975 record for the property. Owner B, who held the property throughout 1976, became a previous owner when he sold the property in February 1977, just before the LL23 interview. Because the LL23 survey sought information about 1976, owner B was the only respondent to that survey, answering the LL23 POS, sec. 1.

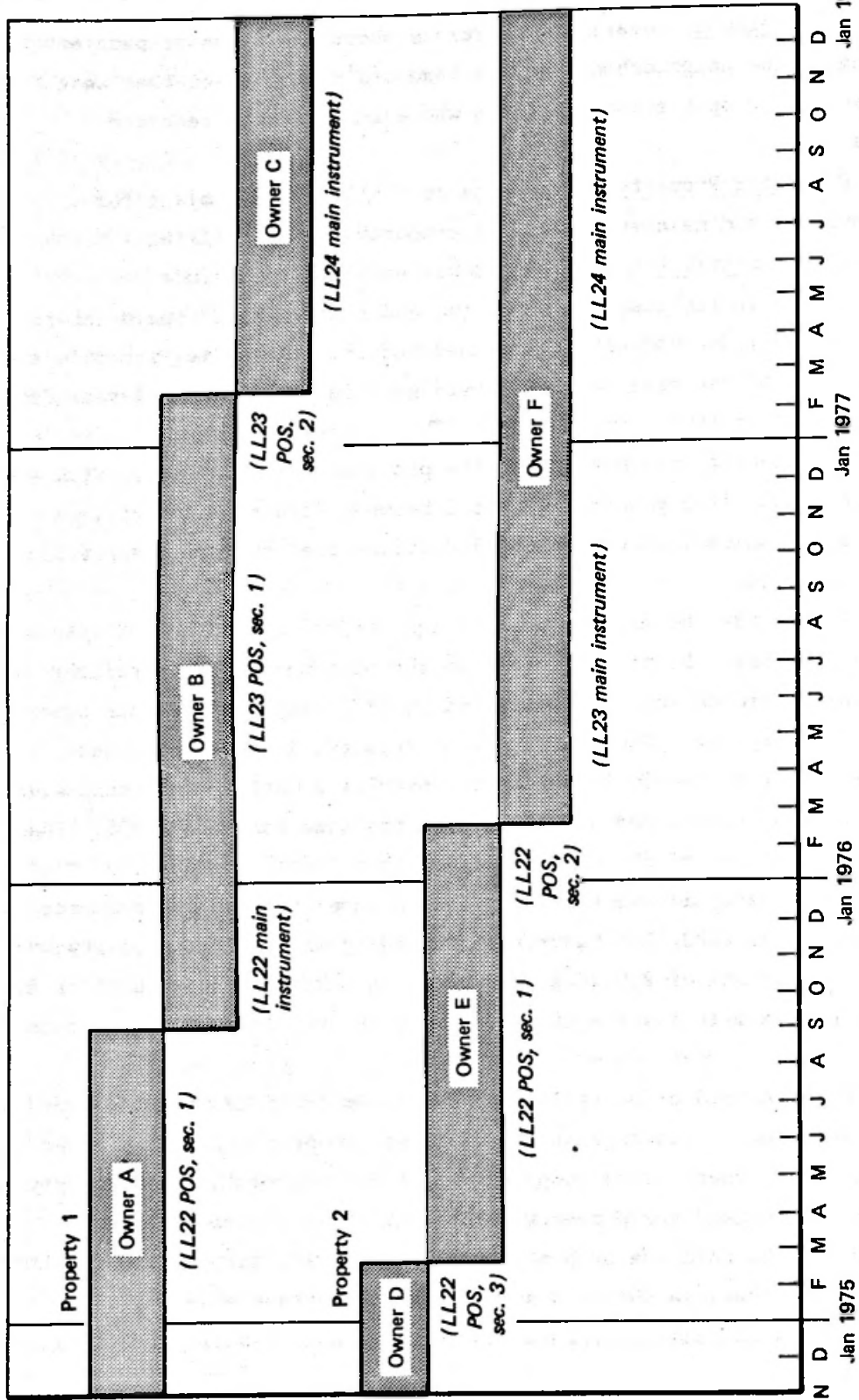


Fig. 2.1 — How ownership periods determine administration of main instrument and POS

As for property 2, owner D sold it in February 1975 to owner E, who in turn sold it one year later to owner F. At the time of the LL22 survey, owner F was the current owner. However, he did not own the property at all during 1975, the year for which the LL22 survey sought data. So owner D answered the LL22 POS, sec. 3 (the data covering the two months he owned the property), and owner E answered the LL22 POS, sec. 1. To avoid burdening owner E with the LL23 survey next year, we collected data on early 1976 in sec. 2 of the LL22 POS.

Sometimes an interview did not take place for a reason other than refusal or breakoff. For example, the building may have been demolished or converted to commercial use, or the landlord may have been unavailable because of extended travel or illness. The noninterview form was added for recording such reasons, as well as the name of the unavailable person and possible other respondents for the property.

Site II, Wave 3/Site I, Wave 4 (Identical Instruments)

Supplementary Forms. In the POS, sec. 3 was dropped because information it elicited was obtained in sec. 2 of the prior-wave POS. A new data retrieval form was used when respondents who had completed interviews had to be recontacted for critical missing information. A combined refusal/breakoff/noninterview form was used for explaining why an interview was not begun or completed.

Site II, Wave 4

The LL24 instrument was similar to that used for LL23, with minor revisions to clarify ambiguities and resolve fielding problems.

Household Survey Instruments

For the household survey, we sought interviews with the heads of households residing in all sampled housing units. The instrument was designed to be administered with both male and female household heads present. In households with just one head, the interview was of course conducted with a single respondent. As will be seen below, the contents of the interview differed somewhat depending on whether the

respondents were tenants, homeowners, mobile home residents, or lodgers.

Unless otherwise noted, information was sought for the calendar year preceding the interview.

Site I, Wave 1

When the survey was first administered, there were three separate instruments--for tenants and homeowners, mobile home residents, and lodgers/roomers. In each, the questions were grouped into seven similar modules, described below.

Introduction. The first module identified the respondents and indicated whether they were the same household heads interviewed for the unit in the screening survey or new occupants. This module also determined whether there were roomers or "hidden" housing units at the address. Hidden housing units were defined as a room or group of rooms intended as separate living quarters within another housing unit. Occupants of such units had to live and eat separately from other residents and had to have a separate entrance, directly from the outside or through a common hall, as well as a kitchen or cooking equipment for their exclusive use. For the survey, such units were treated as separate housing units.

Characteristics. The second module elicited information about the housing unit needed for judging general housing quality and how well the unit met its occupants needs. The information can also be used to verify landlords' statements about maintenance policies and services, and to explain residential mobility.

The module's first section asked about the characteristics of the housing unit (for renters, characteristics not readily obtainable from the landlord or by field observation). The second section covered the respondent's neighborhood, including other buildings and land uses, characteristics of neighbors, safety, and the quality of neighborhood schools. The third section inquired about community characteristics and services, geographic proximity of friends and relatives, and the respondent's participation in organizations. Renters were asked about

relations with their landlords and opinions about landlord rules and policies.

Housing Expenses. The third module elicited a detailed account of the residents' housing expenses. Renters were asked about current rent (and whether they received reduced rent) and lease arrangements. Owners were asked how they acquired their property, its purchase price, and the terms of the mortgage or loan. Owners also supplied information about current taxes, special assessments, and the property's market value. All respondents were asked about the costs of utilities and fuel, types and costs of repairs and improvements, insurance against hazards, and miscellaneous housing expenses.

Mobility History. The fourth module elicited information on the household's mobility plans and behavior. First we asked whether the household had moved during the preceding year or had current plans to move. Households who had searched but not moved were asked what kind of unit they sought, how they conducted their search, and the reason they did not move.

Next we sought the household's mobility history for five years preceding the interview. Households who had moved within five years were asked to describe their housing search, the expenses they incurred in moving, and their household characteristics at the time of the move. A detailed set of questions was asked about the characteristics and associated costs of up to five prior residences, and the reasons for moving to and from each. Those questions resembled the parts of the second and third modules pertaining to housing quality and expenses. In husband-wife households, only the mobility history of the male head was recorded.

The final section investigated whether the household would change its residence if given a hypothetical increase in monthly income.

Employment History. The fifth and sixth modules asked identical questions on the employment history of the male and female household heads, respectively. The questions explored employment changes in the past five years, thus paralleling the five-year span of the mobility retrospective. Detailed information was gathered on a maximum of six jobs for each respondent. For each job, the respondent

was asked the occupation and industry (classified by a 6-digit census code), employer and place of employment (if the latter was within the county it was recorded by HASE-defined neighborhood), hours of work, and earnings.

Household Composition, Income, Ethnicity, and Religion. The seventh module gathered background information on household members for comparison in subsequent survey waves and to help explain the household's demand for housing services. Age, sex, relationship to the respondents, current school enrollment, and grade were recorded for all members of the household including lodgers. Information on previous-year employment status was obtained for household members over 18. The household's income from all sources was recorded. Major payments for child care, alimony, and the like were noted. The final portion addressed household ethnicity and religion, and asked about respondents' awareness of the allowance program.

Supplementary Forms. On the contact card the interviewer recorded the date and time of contact with the respondent. Space was provided for multiple contact attempts. The validation form recorded the results of brief reinterviews that were conducted to check the quality of fieldwork. Validation respondents were randomly chosen from those who had completed interviews. The reinterview verified that certain questions were asked in the original interview and repeated certain other questions. Any discrepancies revealed by comparing the validation form with the respondent's original questionnaire were investigated and resolved by the field staff or Rand.

When a respondent refused to be interviewed, the circumstances were fully recorded on the refusal report. It identified how the refusal was made, by whom, and for what reason. The strength of the refusal was also indicated, and the respondent's statements were reproduced as closely as possible. Based on that information, field staff decided whether the respondent might be persuaded to change his mind. The respondent's personal characteristics--sex, age, and race--were also recorded to help determine if specific groups were being systematically excluded from the study.

The vacancy report was filled out when the interviewer discovered that a housing unit on the sample list was vacant. Through direct observation of the property or by questioning a neighbor or rental agent, the interviewer recorded information on the unit's recent tenure.

Site II, Wave 1

To simplify survey administration, most parts of the three instruments were merged. Extensive skip patterns were used to direct respondents to questions appropriate for their housing type. In the unmerged portions, the "Characteristics" and "Housing Expenses" modules, the former tenant/homeowner instrument was divided so that the two household types were addressed separately rather than together. [10]

Introduction. As appropriate for the new, largely merged instrument, the introduction was revised and enlarged to provide a more detailed description of the respondent and better guidance for the skip patterns to be followed in subsequent modules.

Housing Expenses. Provision was made to record utility costs in the aggregate; many residents received one bill for two or more utilities so were unable to distinguish individual costs.

Mobility History. Questions about rent, market value of unit, and utilities used in prior residences were dropped.

Employment History. For the self-employed, who technically do not draw salary, questions about salary amount were dropped.

Household Composition, Income, Ethnicity, and Religion. For respondents who could not distinguish individual amounts of income received from more than one source, provision was made to record an aggregate amount.

Evaluation of Housing Allowance Program. A new "attitude module" was added for probing respondents' awareness, opinions, and expectations of the allowance program. The TH11 survey had been

[10] So few lodgers responded to the baseline survey that the lodger variables from these modules were deleted from the file.

conducted well before the program began, so questions about it were inappropriate then. In Site II, however, the first survey overlapped the beginning of enrollment. Respondents were queried about the possible effect of the program on their household, their neighborhood, and the county as a whole. Other questions sought their attitudes about general topics such as government, minorities, landlords, their residence, and their neighborhood. Unlike the rest of the instrument, most attitude questions were open-ended and the responses were recorded verbatim.[11]

After leaving the respondents, the interviewer was asked to indicate the race of each household head and estimate the household's income.

Supplementary Forms. The contact card was expanded into the unit record folder, a form on which the interviewer recorded basic interview information: the date and time of contact with the respondent, whether the contact was in person or by phone, and the result (completion of interview, refusal to be interviewed, failure to contact, etc.).

Site I, Wave 2

Characteristics. Questions on the household's use of its yard were dropped. Questions on race and nationality changes in the neighborhood were modified to questions about changes in general types of people (e.g., more students, more elderly, fewer undesirable people). For the first time, residents were asked whether they were satisfied with their housing units.

Housing Expenses. Questions about problems with insurance (such as policy cancellation) were replaced by questions about insurance coverage for repairs and improvements. Eliminated were questions about work done for the landlord by the tenant, and whether or not the landlord was a relative.

[11] This part of the instrument is documented in an attitude-module codebook for this and each later household survey file (see "File Documentation" in Sec. V).

Mobility and Employment History. In these modules, distinction was made between first-time respondents and respondents interviewed at the same address in the prior wave. The former were administered the long forms of these modules (DL, EL, FL); prior-wave respondents were given the short forms pertaining only to the past year (DS, ES, FS) and were relieved of repeating information already given. This instrument newly queried both types of respondents about any problems they encountered while searching for their current residence. Questions on how a hypothetical increase in monthly income would affect the household's demand for housing were dropped.

Household Composition, Income, and Ethnicity. Questions regarding religion were dropped.

Supplementary Forms. Space was added to the refusal report (retitled the refusal/breakoff report) to allow interviewers to record the circumstances under which respondents prematurely terminated an interview.

Site II, Wave 2/Site I, Wave 3 (Identical Instruments)

The instrument was altered to reduce the burden on prior-wave respondents. Data on the housing unit's address, description, and name(s) of household head(s) were collected at the beginning of fieldwork and printed on a household information sheet (TH/IS) attached to each instrument. At various points in the interview, the respondent was asked to verify TH/IS information; if it was correct, he was skipped over several subsequent questions.

Characteristics. Questions about the presence and condition of neighborhood facilities such as day-care centers and clinics were dropped.

Housing Expenses. This module was augmented with questions on whether a market intermediary such as a building contractor participated in housing repairs, how the repairs were financed, and the household's satisfaction with the work. Respondents were no longer asked about large improvements made just after the household moved in.

Mobility History. The distinction between first-time and prior-wave respondents was preserved, but the long and short forms were merged and the questions renumbered so that prior-wave respondents were asked the first 26 questions and first-time respondents were asked the remaining questions. Questions about the most recent residence were augmented to inquire whether occupants did any work for the landlord, received free or reduced rent in return, and about the types of people moving in and out of the neighborhood.

Employment History. The long and short forms were merged and skip patterns added to distinguish first-time from prior-wave respondents.

Evaluation of Housing Allowance Program. The interviewer was no longer asked to estimate the household's income.

Supplementary Forms. Sometimes an interview did not take place for a reason other than refusal, breakoff, or vacancy. For example, the building may have been demolished or converted to commercial use, or the residents may have been unavailable due to extended travel or illness. The noninterview form was added for recording such reasons, as well as the name, age, and race or ethnic group of the male and female heads of household.

Site II, Wave 3/Site I, Wave 4 (Identical Instruments)

Characteristics. Respondents were no longer asked about their satisfaction with the number and size of the rooms in their housing units. Questions were added to elicit respondents' feelings about new people moving into the neighborhood.

Supplementary Forms. A new data retrieval form was used when respondents who had completed interviews had to be recontacted for critical missing information. A combined refusal/breakoff/noninterview report was used for explaining why an interview was not begun or completed.

Site II, Wave 4

The TH24 instrument was similar to that used for TH23, with minor revisions to clarify ambiguities and resolve fielding problems.

Residential Building Survey Instruments

Through direct observation, the survey of residential buildings gathered data on the physical characteristics and condition of residential buildings, the properties on which they stood, and their immediate neighborhoods. Observers conducted the survey on the sampled property unless the resident objected or access was physically prevented. Then, they observed the building from an off-property vantage point. Observations were restricted to the exteriors of all buildings and the interior public areas (e.g., hallways, lobbies) of multiunit structures.

Site I, Wave 1

The baseline instrument addressed seven topics:

1. Property characteristics such as the number, type, and condition of buildings.
2. Neighborhood characteristics such as land uses, building types, and street conditions.
3. Building's use and tenancy.
4. Building's physical characteristics, such as type of structure and principal construction materials.
5. Presence and condition of landscaping and tenant facilities such as parking spaces.
6. Condition of the roof, walls, foundation, and other characteristics of the building's exterior.
7. Condition of interior public areas in multiunit dwellings.

Questions on quality and condition were of the simple evaluative type that required observers to average the ratings for an item showing more than one condition (e.g., part of a wall surface might be missing a large piece of plaster, whereas the rest was in good condition).

Site II, Wave 1

For ease of administration, the questions were grouped into two modules pertaining to the property/neighborhood and building, respectively. To obtain more precise and accurate ratings, the simple evaluative questions were replaced by question grids, which allowed observers to indicate within broad ranges what portion of an evaluated item fit each rating category. For each module we developed an information sheet, a form preprinted with information obtained at the beginning of fieldwork about property and building characteristics such as address, location, description, and ownership. The information sheets were attached to each instrument, and the observer was no longer required to record the information they contained unless changes had occurred. Supplementary forms were created to differentiate the substantive and administrative portions of the observation.

Property/Neighborhood Characteristics. This module, completed only once for each property, covered topics 1 and 2 listed above. The data were later copied onto the records of other buildings on the same property.

Building Characteristics. The second module, completed for all buildings scheduled for observation, covered topics 3 through 7.

Supplementary Forms. The building record folder provided space for the observer to record observation attempts, the outcomes of those attempts, and the final status of all observations (e.g., completion, property inaccessible). Other questions determined the feasibility of an off-property observation if an on-property observation was impossible.

Although this survey did not require a respondent, the observer notified the building's occupant (except in buildings with three or more units) about the impending observation. If the occupant refused to allow the observation or requested that it be terminated, an observation was attempted off the property. If that too was unsuccessful, the refusal/breakoff report was filed. It noted whether the attempt was forestalled or broken off, the characteristics

of the tenant or owner who refused permission for the observation, any reasons given, and the vehemence of the refusal.

As a check on the quality of fieldwork, a sample of completed observations was validated. Sometime after the original observation, a second observer revisited the building and answered a number of questions (taken from the instrument) on the validation form. Discrepancies between validation and original answers were investigated and resolved by the field staff or Rand.

Site I, Wave 2/Site II, Wave 2/Site I, Wave 3

The main instruments are identical to the RB21 instrument.

Supplementary Forms. The validation form was separated into two modules pertaining to the property/neighborhood and building, respectively. In the RB13 instrument, the property/neighborhood validation module was expanded to include all questions in the corresponding instrument module.

Site II, Wave 3/Site I, Wave 4 (Identical Instruments)

To obtain still more precise evaluations, the question grids were replaced by pie charts requiring observers to indicate how many or what portion of an item (to the nearest 10 percent) fit each rating category. The validation form was replaced by a duplicate of the original instrument, so the entire observation was repeated for the validation sample of buildings.

Site II, Wave 4

Questions on the refusal/breakoff report were exempted from validation.

Neighborhood Survey Instruments

The neighborhood survey gathered information on the physical characteristics of the entire county in each site, with HASE-defined neighborhoods and street segments as the units of observation. The survey's two parts corresponded to the two observation units. For the local sources survey (NS), fieldworkers compiled facts about each

neighborhood by means of secondary research; for the street observation survey (NO), fieldworkers recorded the characteristics of each street segment by means of direct observation. (A street segment is both sides of a length of street between intersections.) The two parts had separate instruments and produced separate data files.[12] Collectively, neighborhood survey data contribute to analyses of the effect of location on housing; the data may also help explain differences in the views and behavior of the landlords, tenants, and homeowners interviewed in our other surveys.

We divided each county's territory into mutually exclusive neighborhoods, attempting to make the boundaries conform to those of 1970 census blocks, enumeration districts, and local planning districts. In the urbanized portion of the county, neighborhoods were small and configured to contain relatively homogeneous populations and housing stocks; rural neighborhoods were larger and less homogeneous. Population size varied, most neighborhoods inhabited by 2,000 to 4,000 persons. The instruments varied slightly according to the availability of data in each site.

Local Sources, Site I, Wave 1

The instrument's multipart questions covered land-use patterns in the neighborhood; access to facilities such as fire stations and hospitals; new facilities planned; access to services such as public transportation and utilities; characteristics of highways, arterials, planned highways, and railroads; mileage of all public streets and roads; size and use of lakes, rivers, and streams; effect of soil limitations on residential improvement; flooding; and air and noise pollution levels.

Fieldworkers identified and abstracted relevant information from local sources, both public and private. Data about access to public facilities and services were obtained primarily from public records. Railway companies and the state department of transportation provided

[12] Nevertheless, the unit of analysis is the same for both surveys because the NO data are aggregated to the neighborhood level for analytic use.

maps for measuring railroads and roadways. Rarely did the sources present the information in a form directly applicable to a HASE neighborhood. Data had to be measured and then transformed as required by the survey instrument, for example, map distance converted to mileage, or countywide data disaggregated.

Local Sources, Site II, Wave 1

The question on land-use patterns was omitted from the Site II instrument. Questions about school and crime statistics were added.

Local Sources, Site I, Wave 4

Questions on employment statistics were added. The following questions were dropped because little or no change was expected in the data: planned facilities; public streets and roads; lakes, rivers, and streams; effect of soil limitations on residential improvement; and flooding.[13]

Local Sources, Site II, Wave 4

Questions on employment statistics were not added to the Site II instrument; questions about lakes, rivers, and streams were not dropped. The noise-pollution question was deleted.

Street Observation, Site I, Wave 1

For each street segment in the county, the instruments elicited facts and judgments recorded by an observer who was driven slowly down the street. The first group of questions were evaluative, asking the observer to rate the segment's residential buildings and their landscaping, urban vacant land, the condition of the street and sidewalks, and overall cleanliness (on a four-point scale from excellent to poor). The remaining questions were descriptive, asking the observer to indicate the presence of special features such as construction activity and abandoned buildings or vehicles, and the

[13] Though they appeared in the instrument, questions on land-use patterns and noise pollution were later dropped from the file for lack of adequate data.

presence or absence of 18 specified land uses, including retail stores, cropland, and several residential categories.

To check the quality of fieldwork, observations were repeated for street segments in the validation sample and segments forming the boundary between two neighborhoods.

Street Observation, Site II, Wave 1

Land-use categories that proved too general were divided, raising the total to 21.

Street Observation, Site I, Wave 4

To obtain evaluative ratings that were more consistent than the subjective averages elicited at baseline, this instrument directed observers to record the proportion or number of a characteristic (e.g., residential buildings) fitting each of four rating categories. The categories themselves were made more descriptive and specific to the item being evaluated.

To obtain more precise land-use data, this instrument called for an estimate of the percentage of the segment devoted to each land-use category, not simply its presence or absence. The six categories of residential use--requiring subjective judgments about building age--were coalesced into a single residential category.

Street Observation, Site II, Wave 4

To eliminate the confusion observers had experienced in trying to distinguish such land-use categories as "urban vacant land" and "rural unimproved land," all references to urban and rural were dropped. "Urban vacant land" was changed to "vacant lots," and four ambiguous rural categories were collapsed into a single category, "farmland, unimproved land."

III. USING THE SURVEY FILES

For analytic purposes, a survey record can be viewed from two perspectives--as the carrier of substantive data and as the representative of a particular sample element. In applying the HASE survey files to their analyses, users must determine that the records they select contain the types and amounts of data desired and represent the sample elements of interest. This section provides information for making that determination and offers guidelines for linking records to form analysis subsamples.

CONDITION OF SUBSTANTIVE DATA AND SAMPLE ELEMENTS

Data Completeness

As noted in Sec. II, except for the baseline files, each file contains a record for every sample element scheduled for survey in that wave. However, since interviews and observations were not always completed for the entire sample list, some records contain incomplete data. Those records are either field-incomplete or dummy records.

A field-incomplete record is missing some or all of the data sought in the interview or observation. The revised final status code category (variable FSCCAT) indicates why a record is incomplete:[1]

- The interview or observation was not desired for this survey, usually because the property had changed tenure (e.g., a rental property eligible for the landlord survey became a homeowner property eligible for the household survey).
- The property, building, or unit was demolished, condemned, or converted to nonresidential use.

[1] FSCCAT also indicates field-completeness, i.e., that a record contains usable information.

- The property, building, or unit was found to be vacant.
- The respondent was unlocatable or unavailable due to extended travel, illness, or a language problem.
- The respondent refused or prematurely terminated the interview or observation.

A dummy record is a placeholder for a property, building, or unit that was inadvertently not surveyed during the wave in question (e.g., because of an error in the address). It contains no survey data, only header variables and a few administrative derived variables. The presence of dummy records on a landlord, residential building, or household survey file is indicated by the variable DUMREC.

Field-incomplete and dummy records are in the files only to account for individual sample elements and facilitate cross-file linkages. Users who do not need to link different files should delete those records from their analysis subfiles.

Other indicators signal the completeness of a specific part of the field-complete records, such as the income data on household survey records (YCMPLT) and the revenue and expense data on landlord survey records (INDREFC). These indicators are useful because even field-complete records can lack data because of nonresponse to particular questions or groups of questions.

Use of Survey Variables versus Derived Variables

As noted in Sec. II, we constructed a set of derived variables--usually several hundred per file--and added them to the records of survey responses for use in HASE analyses. Derived variables take several forms, each serving a specific purpose:

<u>Form</u>	<u>Purpose</u>
Sample-selection indicators	Allow rapid selection of analysis subsamples along various dimensions.
Identifiers	Enable the tracking of sample elements across survey types and years.
Aggregations or transformations of survey responses	Provide more analytically useful information than provided by the raw data.
Information from related surveys or other data bases	Even out sample sizes and supply valid data from a previous wave.
Sampling weights	Enable the records jointly to portray the population from which the survey sample was drawn.

Derived variables were built with great care, and both the construction algorithms and the resulting data were thoroughly audited for accuracy and consistency.[2] Where possible, missing data were estimated or imputed. Values were estimated by reasoning from the responses of other sample elements having similar characteristics; estimation procedures were incorporated in the variable's method of construction. Values were imputed by reasoning from other attributes of the particular sample element for which data were missing. Imputed values were verified by checking the hardcopy questionnaires or data from a related survey file, and are reported in the audit reports.

Therefore, derived variables not only provide analytically useful combinations or transformations of data but also compensate for inadequate survey data. In contrast, the survey variables are coded exactly as recorded on the questionnaires to provide an accurate

[2] That is, we audited for consistency within a file. Longitudinal audits were not regularly done for any variable, so the user should be alert for unexplained fluctuations in values over time.

account of survey responses. Although clearly erroneous values were corrected or replaced with audit codes, values that were suspect but not clearly wrong were left unaltered. File users should be alert for occasional survey values that seem inconsistent with other data.

Though derived variables were designed to meet the needs of HASE analysts, they should be applicable to most non-HASE analyses; we recommend their use over survey variables where possible. Appendix D lists the derived variables for each survey type, specifies the files on which they appear, and indicates the codebooks in which they are documented.

Sample Element Identifiers

A simple system of identifiers permits users to link the records of related sample elements within and across the landlord, household, and residential building survey files. All records are linked to sampled properties. The basic property identifier is the alternate tax parcel (ATP) number, a six-digit number assigned by Rand to each sampled property. ATP numbers are keyed to, and keep confidential, the real tax parcel (RTP) numbers in the county tax assessor's records. Like all identifiers, ATP numbers remain the same across files for all records associated with a particular property.

Besides identifying unique properties, ATP numbers indicate the sampling frame from which the property was chosen and whether the property changed configuration during the four survey waves. Table 3.1 lists the ATP number ranges assigned for those purposes. As the table shows, the numbers assigned to baseline HASE panel properties overlap the two sites, so the files should be kept separate to avoid erroneous matches. The property types identified in the table are explained below.

Panel Augmentation Samples. The sampling frame varied because the HASE panel was augmented annually with a sample representing new residential construction, and at other times with samples of federally

Table 3.1

ATP NUMBER RANGES AND ASSOCIATED PROPERTY TYPES

Property Type	Wave of Origin ^a			
	1	2	3	4
<i>Site I</i>				
Baseline HASE panel	000001- 119999			
New-construction sample		120000- 129999	130000- 134999	640000- 649999
Subsidized housing sample ^b			135000- 135999	
Split/merger		560000- 569999	600000- 609999	610000- 619999
<i>Site II</i>				
Baseline HASE panel	000001- 499999			
New-construction sample		800000- 804999	810000- 819999	820000- 829999
Residential hotel sample ^c		805000- 805999		
Split/merger	500000- 509999	910000- 919999	920000- 929999	930000- 939999

SOURCE: Compiled by HASE staff.

^aOnce a property was assigned an ATP number, it was retained in all subsequent waves unless the property split or merged.

^bThere was no separate subsidized housing sample in Site II because subsidized housing was included in the original sampling frame. The only way to identify Site II subsidized housing units is through variable REVPS (values 34 through 38).

^cThere was no comparable sample in Site I because residential hotels did not exist there.

subsidized housing and residential hotels.[3] The sampling frames indicated by the ATP number ranges in Table 3.1 are as follows:

- The county's entire population of residential tax parcels (as of March 1973 for Site I, December 1973 for Site II), from which the baseline HASE panel was ultimately chosen.
- Properties for which residential building permits were issued in the county, from which a new-construction sample was drawn each year after baseline.[4]
- The 1975 population of federally subsidized housing units in Site I and the 1975 population of residential hotels in Site II.[5]

Properties That Changed Configuration. The inclusion of a property in the HASE sample depended on its characteristics when the sampling frame was defined, so we had to account for all subsequent changes to the property. We were particularly interested in

[3] Elements of the new-construction sample were empaneled after the annual fieldwork period. Therefore, in speaking of the postbaseline surveys, we distinguish between the prefieldwork sample, referring to all sample elements scheduled for survey (previously empaneled elements plus the current wave's new-construction sample), and the postfieldwork panel, referring to previously empaneled elements plus the newly empaneled elements of the new-construction sample.

[4] In each site, an annual sample of 60 to 70 properties was drawn from the building permits issued two years earlier. After they were surveyed, about 40 properties for which the most data had been obtained were empaneled. Field problems in Site II prevented our surveying the wave 2 new-construction sample until wave 3. Selection of the new-construction samples is fully described in E. Wayne Hansen and Marsha E. Baran, Augmenting the HASE Panel of Residential Properties, Site I, The Rand Corporation, N-1448-HUD, forthcoming, and E. Wayne Hansen and Patricia Boren, Augmenting the HASE Panel of Residential Properties, Site II, The Rand Corporation, N-1614-HUD, forthcoming.

[5] The subsidized housing sample consisted of 42 properties; the residential hotel sample, 3 properties. Unlike the new-construction samples, these samples were empaneled at the beginning of fieldwork in the relevant survey waves, not afterward.

properties that split (were subdivided) or merged (were consolidated with another).

Fieldworkers usually discovered a split or merger in one of two ways: (a) in answering the property description section of the landlord survey questionnaire, the respondent said that a portion of the original property had been split off or merged, or (b) prefieldwork searches of the tax assessor's records revealed changes in the property's RTP or land area. Splits occurred more frequently than mergers, but both were uncommon: a total of 28 sampled properties split, and 8 merged. Whenever properties split or merged, the ATP numbers for the original configurations were retired and new numbers for the new configurations were added.

All splits and mergers are indicated in the files by variable IDUPDT and are identified in the relevant audit reports. In addition, the landlord survey file variable PARATP identifies the original ATP number of a rental property before it split or merged. By checking PARATP for records that have ATP numbers in the split/merger range, the user can identify which previously assigned ATP numbers were retired because of property configuration changes. In the example below, ATP 102345 was retired at wave 3 because the property it represented was split into two smaller properties, identified by ATPs 601234 and 605678. On the wave 3 files, PARATP = 102345 for ATPs 601234 and 605678. A PARATP value appears only for the wave in which the split/merger occurred, so PARATP in the example is blank for wave 4.

<u>Wave 1</u>	<u>Wave 2</u>	<u>Wave 3</u>	<u>Wave 4</u>
102345	102345	----> 601234 (PARATP=102345)	601234
		----> 605678 (PARATP=102345)	605678

Buildings, Housing Units, and Neighborhoods. As noted in Sec. II, properties were the basic sample elements but not the only ones. To identify sampled buildings and units on sampled properties, we

added successive 3-digit numbers to ATP numbers. For example, 102345-002 is the ATP-BLDG number representing building 2 on property 102345. Similarly, 102345-002-006 is the ATP-BLDG-UNIT number representing unit 6 in the building just identified. Like ATP numbers, BLDG and UNIT numbers remained the same across all files for a particular building or unit unless a split or merger occurred. On the residential building survey files, the variables PATP and PBLDG are counterparts to PARATP on the landlord survey files; they identify the original properties and buildings, respectively, affected by a split or merger.

Neighborhoods are identified in the NS and NO files by the variable NBHDCODE. Street segments in the NO files are identified by the variable NBHDSEG. Like properties and units, street segments sometimes split, merged, or were demolished between the two administrations of the neighborhood surveys, waves 1 and 4. On the wave 4 files NBHDSEG codes of 600 to 799 identify new segments; survey variable SSB explains why the segment was added.[6] The retired NBHDSEG codes for the original segments are not identified in the wave 4 files or in any published report.

Analytic Units

Most survey instruments elicited information about entities other than the designated sample element. For example, landlord survey files contain data not only about the property but also the landlord (age, experience in real estate, opinions about the allowance program); buildings (age, usage, number of units in each); units (rent charged per unit, rent actually received); and the neighborhood (physical changes, new types of people in the area). Table 3.2 indicates the various levels of information for each survey type. Appendix B lists all topically related variables and where they are found on each file.

[6] The names of all survey variables in this section are those on the Site II, wave 2 files. For the names of corresponding variables on other files, see Appendix C. The names of derived variables do not change from file to file.

Table 3.2

UNITS OF ANALYSIS ON THE HASE SURVEY FILES

Sample Element	Respondent	Other Units of Analysis
<i>Landlord Survey Files</i>		
Property	Landlord or his representative	Landlord: age, education, real estate experience Building: age, number and type of units Housing unit: rent, number of bedrooms Neighborhood: type of neighbors, physical changes
<i>Household Survey Files</i>		
Housing unit	Tenants, homeowners, mobile home residents, lodgers	Household: number, age, sex, and education of members Property: number of acres Building: number of floors Neighborhood: type of neighbors, physical changes
<i>Residential Building Survey Files</i>		
Building	None: observation, not interview	Property: condition of driveways, presence of swimming pool Neighborhood: cleanliness, street condition
<i>Neighborhood Local Sources Survey Files</i>		
Neighborhood	None: secondary research	---
<i>Neighborhood Street Observation Survey Files</i>		
Street segment	None: observation, not interview	---
SOURCE: Compiled by HASE staff.		

LINKING RECORDS

Most analysis designs using HASE data will require linking records in some manner--for example, linking a landlord with his tenants, linking the data for a certain property through time, and selecting an analysis sample of properties or households with common characteristics. This subsection defines what linkages the files permit, identifies useful variables for selecting and matching records, and points out where gaps may occur and why.

Linking Properties

Property-level information appears for rental properties on the landlord survey files, and for homeowner properties on the household survey files. Guidelines for extracting both levels of information are given under the next two subheadings.

Property-level information is also found on the residential building survey files. Recall that the property-level portion of the instrument was administered only once per property, and the data were later copied onto the records of other buildings on the same property. To avoid duplicating property data when using the RB files, it is necessary to select one record per property. The variable ASTAT:PS indicates which building record contains the original property-level data.

Rental Properties. To link rental properties longitudinally, select records with the same ATP number across the site's landlord survey files. For example:

LLATP

Wave 1	102345
Wave 2	102345
Wave 3	102345
Wave 4	102345

To link a rental property with its buildings and units, select records with the same ATP number across the landlord, residential building, and household survey files. To link the buildings with their units, select records with the same ATP-BLDG numbers on the RB and TH files. For example:

	<u>LL</u>	<u>RB</u>	<u>TH</u>
	<u>ATP</u>	<u>ATP-BLDG</u>	<u>ATP-BLDG-UNIT</u>
Wave 1	102345	102345-001	102345-001-001 102345-001-003
		102345-004	102345-004-026
Wave 2	102345	102345-001	102345-001-001 102345-001-003
		102345-004	102345-004-026
Wave 3	102345	102345-001	102345-001-001 102345-001-003
		102345-004	102345-004-026
Wave 4	102345	102345-001	102345-001-001 102345-001-003
		102345-004	102345-004-026

All building and unit records for rental properties have corresponding property-level records in the landlord survey files. Housing units were sampled independently of residential buildings, so a record for a sampled unit does not necessarily have a corresponding residential building record and vice versa.

Homeowner Properties. Because most homeowner properties consist of a single housing unit, information about the household, the unit, and the property appears together in one record on each of the household survey files. Those files also contain records for rental units, so homeowner records must be separated from tenant records. Variable CTENUR indicates whether the unit was rented or owned. To build a longitudinal account of homeowner properties, select records

having a CTENUR value of 2 and match ATP-BLDG-UNIT numbers across the site's files.

Unlike tenant units, homeowner units have no corresponding records in the landlord survey files, which pertain solely to rental properties. The only exception involves condominium/cooperative properties. If any sampled unit was found to be rental, the tenant version of the household survey was administered for that unit, the entire property was declared to be rental, and a landlord survey interview was sought. Therefore, the household survey record for that rental condominium/cooperative unit will correctly link with its corresponding property record on the landlord survey file. However, since records for homeowner units on the same property cannot be distinguished by different ATP numbers, they will also link with the landlord survey record--incorrectly. To identify such owner-occupied condominium/cooperative units and prevent erroneous linkages between the two files, match household survey records having a CTENUR value of 1 (rental property) with those having a variable A28:A value of 1 (owner-occupied condominium/cooperative unit). The erroneous linkage problem will not arise with condominium/cooperative properties lacking rental units; they were simply coded as homeowner properties and so were eligible only for the household survey.

Properties That Changed Tenure. It is somewhat more complicated to construct a longitudinal account of properties that changed from rental to ownership or from ownership to rental. In both cases, the first step is to build two longitudinal files: one of rental property records from the landlord survey files, and one of homeowner property records from the household survey files. Then the subfiles should be linked by ATP number. Any record that appears on both subfiles represents a property that has changed tenure.

Rental-to-ownership conversions are tracked through the landlord survey files. At the wave in which the conversion occurred, we left a field-incomplete record for the property in the landlord survey file. Its final status code (variable T5) of 261 signifies that the case was retired from the landlord survey and scheduled for the household survey because the property was converted to ownership tenure. Thus,

there are two property records for that wave: the field-incomplete record in the LL file and the homeowner property record in the TH file.[7] Users should ignore the blank information in the landlord survey record and use the homeowner property record.

Ownership-to-rental conversions are tracked through the household survey files, where tenure changes were simply recorded as changes in the value of CTENUR; no field-incomplete records indicate the change. The exception is when a homeowner to whom the household survey was addressed turned out to have rental units on his property, and to be living in one of those units. Such resident landlords were eligible for the landlord survey, not the household survey, so a field-incomplete record appears in the household survey file with an appropriate final status code (variable THSTAT = 162) for the wave in which the resident landlord's presence was discovered.

Turning from a general interest in all conversions, let us examine the history of a particular property, say, ATP 102345. In the example below, we see that its landlord survey record is missing at wave 4. Checking T5 on the wave 3 LL file, we find that the case was retired from survey because the property changed from rental to homeowner tenure. This tells us that the record on the wave 3 landlord survey file is field-incomplete because the property was eligible for the household survey instead of the landlord survey. At wave 4, the property-level record appears only in the household survey file.

	<u>LL</u>	<u>TH</u>
Wave 1	102345 (T5=10, field-complete)	102345-001-001 (CTENUR=1, rented)
Wave 2	102345 (T5=10, field-complete)	102345-001-001 (CTENUR=1, rented)
Wave 3	102345 (T5=261, case retired)	102345-001-001 (CTENUR=2, owned)
Wave 4	--	102345-001-001 (CTENUR=2, owned)

[7] This discussion ignores the special case of condominiums and cooperatives.

Properties That Became Nonresidential. Sometimes sampled properties, buildings, and units became nonresidential because they were demolished, condemned, or converted to commercial, industrial, or institutional use. For such cases, field-incomplete records appear on the relevant survey file for the wave in which the conversion occurred. No further record will be found in later files unless the property/building/unit was reconverted to residential use and returned to the survey agenda. Such changes are explained in LL file variable T5, TH variable THSTAT, and RB variable SRBSTA.

Linking Buildings

Most building-level information is found in the residential building survey files. Longitudinal accounts are built by matching records with the same ATP-BLDG numbers across the site's files. Remember that the survey of residential buildings was administered to the full HASE sample only at waves 1, 2, and 4 in Site I and waves 1 and 4 in Site II. For most of the sample, therefore, records do not exist on the RB13, RB22, and RB23 files.

Linking Housing Units

Most information specific to housing units is found in the household survey files. Longitudinal unit-level accounts are built by matching records with the same ATP-BLDG-UNIT numbers across the site's files.

Linking Neighborhoods

Neighborhood-level records are on the local sources survey files. Although the street observation survey gathered information at the street segment level, the data are intended for analytic use at the neighborhood level. Accordingly, we aggregated NO street-segment data to the neighborhood level and added the data as derived variables to the NS files. Analysts should use those variables or other aggregates of NO data, not the original NO variables. The highly subjective nature of observations at the street segment level casts doubt on the validity of the unaggregated NO data.

Linking Landlords

ATP numbers cannot be used to select a sample of landlords from the LL property records because the same landlord could own more than one property. To select a landlord sample, match records on the variable DRID, a number identifying the designated respondent to the landlord survey. DRID, assigned once to each landlord, appears on all records pertaining to the properties, buildings, and units he owned. Therefore, DRID provides the link between the landlord and his tenants and between the landlord and all of his sampled properties.[8]

DRID also permits the user to select one record per landlord to avoid duplicating responses to questions about the landlord's real estate experience and perceptions of the neighborhood, which were asked only once of each landlord and copied onto the records for his other properties. To avoid overrepresenting the attitudes of landlords who owned more than one property, we built the indicator INDECENT, which flags one record for each landlord who completed the attitude module.

Linking Heads of Household

Each head of household was assigned a unique identifying number, HH1ID for the male head and HH2ID for the female head. The ranges of numbers are 350003-499990 for Site I households and 850008-999995 for Site II households. Because those numbers identify the heads (which may change) rather than the household itself, HH1ID and HH2ID are not the same for heads of the same household. To determine whether the household survey was administered to the same household heads each year, it is necessary to match on both HH1ID and HH2ID when linking records. If a household head no longer lived in the household, his identifier was dropped. If another person joined the household in his

[8] Recall that we use the terms "landlord" and "owner" loosely when referring to respondents for the landlord survey. Though the designated respondent was someone knowledgeable about the property's management and finances, he was not necessarily the property's legal owner. The latter is identified by the variable ORID. If the owner of a rental property also happened to be interviewed as a homeowner, ORID numbers on the landlord and household survey files will match.

place, a new identifier was assigned. The user may check to see if at least one of the heads was consistent across waves.

Missing Links

As we have seen, records will unexpectedly appear and disappear in longitudinal accounts because of splits/mergers, panel augmentation, partial fieldings, and tenure changes. Table 3.3 shows how the size of the files changed over the four annual waves due to the addition and deletion of sample elements. The additions shown are reflected in new records on the file for the wave indicated; deletions are reflected in missing records. The following paragraphs provide additional survey-specific explanations for gaps in longitudinal linkages.

Landlord Survey Files. A record for a new-construction sample property appears for the wave in which the property was added to the survey schedule. If the property was not subsequently empaneled, no further records will appear.

Household Survey Files. Similarly, records for all units on new-construction sample properties that were not empaneled were omitted in subsequent files. For split and merged units, the variable IDUPDT indicates that the identifier changed, but the household survey files have no variable comparable to LL variable PARATP to link splits and mergers with their original counterparts. The audit reports must be consulted for the specific ATP-BLDG-UNIT numbers of such units. Although lodger units in private residences were excluded from our sample design, we were alert for their occurrence and attempted to survey the occupants whenever such a unit was found. A record appears for each identified lodger unit (UNIT code 900-999) in the wave identified but is omitted in later files if the unit did not exist in subsequent waves. Finally, records were added to represent newly constructed units on panel properties; they are identified in the audit reports.[9]

[9] Unlike the units in the new-construction sample, these units were built on previously empaneled properties, so they were empaneled as soon as they were discovered, not after fieldwork.

Table 3.3

CHANGES IN RECORD COUNTS

Sample Elements	Number of Records			
	Landlord Survey Files	Household Survey Files	Residential Building Survey Files	Neighborhood Street Observation Survey Files ^a
<i>Site I</i>				
Baseline file total	1,318	3,293	2,153	8,084
<i>Wave 2</i>				
Added	43	139	77	--
Deleted	1	43	5	--
Net change	+42	+96	+72	--
File total	1,360	3,389	2,225	--
<i>Wave 3</i>				
Added	56	246	--	--
Deleted	69	94	--	--
Net change	-13	+152	--	--
File total	1,347	3,541	139 ^b	--
<i>Wave 4</i>				
Added	41	172	254	1,468
Deleted	74	92	154	237
Net change	-33	+80	+100	+1,231
File total	1,314	3,621	2,325	9,315
<i>Site II</i>				
Baseline file total	1,417	3,559	2,515	12,152
<i>Wave 2</i>				
Added	31	83	--	--
Deleted	4	39	--	--
Net change	+27	+44	--	--
File total	1,444	3,603	10 ^b	--
<i>Wave 3</i>				
Added	37	217	--	--
Deleted	87	124	--	--
Net change	-50	+93	--	--
File total	1,394	3,696	140 ^b	--
<i>Wave 4</i>				
Added	56	135	280	1,201
Deleted	104	145	238	420
Net change	-48	-10	+42	+781
File total	1,346	3,686	2,557	12,933

SOURCE: Compiled by HASE staff.

NOTE: The neighborhood local sources survey files are omitted because the record counts do not change; both the wave 1 and wave 4 files contain a record for each HASE-defined neighborhood in the county: 108 in Site I and 86 in Site II.

^a In both sites, waves 2 and 3 were not fielded.

^b File for this partially fielded survey contains only records for new buildings on previously empaneled properties and buildings on panel augmentation sample properties.

Residential Building Survey Files. In the files representing the full sample (RB11, RB12, RB14, RB21, RB24), records will appear and disappear for most of the same reasons as in the landlord and household survey files. Refer to the audit reports for details.

In summary, when a user finds a gap in the files, he should look for an explanation as follows:

1. Check the record's final status code in the previous wave (variable T5 on the LL files; THSTAT on TH; SRBSTA on RB) to see whether the sample element was retired from the survey schedule.
2. Check IDUPDT for the wave in which the gap appears to see whether the sample element identifier was changed because of an altered configuration. For rental properties, find the pre-change identifier by checking LL file variable PARATP; for other sample elements, check the relevant audit report.
3. Check the audit report for the site and wave in which the gap appears. In postbaseline reports, Sec. II, "Sample Accounting," and associated appendix tables, identify all records added or deleted in the files.
4. Consult the Housing Research Data Center or HUD, which will have a record of any file changes made after the audit reports were published.

IV. APPLYING WEIGHTS TO THE SURVEY RECORDS

Data collected in a survey usually contain both sample- and record-selection biases. That is because fieldwork conditions often lead to compromises with the principles of random selection, and because survey nonresponse cannot be assumed random with respect to all variables of analytic interest. For use in analytic designs that require deriving population parameters from sample data, survey records must be weighted to obtain unbiased estimates.[1]

We developed an inexpensive and convenient procedure for weighting the HASE survey records to obtain nearly unbiased estimates of certain population parameters.[2] We used it to compute two types of weights. Panel weights, permanently assigned as each property entered the panel, reflect the property's exact sampling history from the sampling frame to the panel. Panel weights were assigned to the records for all empaneled properties, whether or not an interview or observation was completed. Applying those weights permits tracking changes in the county's baseline residential housing stock over time. Because most analysts are interested in records with complete survey data, we also calculated a set of field-complete weights for only the records representing completed interviews or observations in each file. Field-complete weights use panel weights in their construction; therefore, they benefit from the accuracy of the latter while excluding the analytically uninteresting field-incomplete records.

[1] This statement does not apply to data from the HASE neighborhood surveys, which were addressed to complete enumerations, not samples.

[2] The method was developed by Daniel A. Relles for application to the baseline survey files. See Relles, Using Weights to Estimate Population Parameters from Survey Records, The Rand Corporation, N-1136-HUD, May 1981 (first issued as WN-10095-HUD, April 1978). Although devised specifically for HASE, the method is widely applicable, especially to data derived from survey research.

PANEL WEIGHTS

Sample-selection bias was introduced when the baseline sample was selected. The complex, multistage sampling procedure led to unequal but known selection probabilities for the properties in each of the 18 sampling strata. Classical weighting methods could be used to compensate for that bias; of greater concern was the record-selection bias introduced when the baseline panel was selected from the baseline sample. Records that were incomplete because of survey nonresponse were largely excluded from the panel. As a result, empaneled properties had uncertain selection probabilities--a problem for which classical methods offered little guidance.[3]

Our first task in calculating the panel weights, therefore, was to adjust the known probabilities of selection into the baseline sample by the unknown probabilities of record completion and selection into the panel. We decided to assume that the latter probabilities were equal for all panel members in a particular sampling stratum. We calculated stratum average weights by estimating the parent population represented by each stratum,[4] dividing the number of empaneled properties in that stratum into the population estimate, and obtaining the inverse of the quotient.

We then tested our assumption of equal panel selection probability within strata. Applying the 18 stratum weights to the

[3] The entire sample selection process is more fully explained in E. Wayne Hansen and Christine D'Arc, User's Guide to HASE Data, Vol. 1: Overview, The Rand Corporation, R-2692/1-HUD, forthcoming, Sec. IV.

[4] This involved some fairly complex calculations. Briefly, we stratified empaneled properties by their current (baseline survey) characteristics and determined how many properties in each panel stratum were chosen from each baseline sample stratum. For each "cell" of properties at the intersection of a sample stratum and a panel stratum, we calculated a sampling probability and estimated the parent population, then summed the estimates of the various cells to obtain a population total for each panel stratum. These procedures are described in Timothy M. Corcoran, Selecting the Permanent Panel of Residential Properties, Site I, The Rand Corporation, N-1107-HUD, April 1981 (first issued as WN-9575-HUD, April 1978), and Corcoran, Selecting the Permanent Panel for Residential Properties: Site II, The Rand Corporation, N-1109-HUD, April 1981 (first issued as WN-9577-HUD, April 1977).

relevant panel records, we reproduced certain basic characteristics of the parent population, such as number of rental units, occupancy rate, and number of owner-occupied dwellings. We examined the efficiency of those panel-based estimates by comparing them with estimates of the same characteristics produced by weighting the full baseline sample. The latter served as control totals; since baseline sample weights were based on known sampling probabilities, the estimates they produced were presumably free of bias.[5] If the estimator efficiency coefficients were unacceptably low for a particular stratum, we subdivided the stratum into two more classes, calculated new constant probabilities of panel selection for the properties in each class, recomputed the weights, and reevaluated the efficiency of the estimates.

In the foregoing process, the 18 strata were ultimately expanded to 31 weighting classes for Site I and 34 for Site II. To illustrate the resulting baseline panel weights for both sites, Tables 4.1 and 4.2 define the classes and present the average weights for the properties they contain. The property records in each class were assigned individual weights, compounded from their known, particular probability of selection into the baseline sample and the assumed, common (per class) probability of selection into the panel. The individual record weights are documented by the variable SAMWT on each baseline file. Use of the average weights in Tables 4.1 and 4.2 will slightly reduce the efficiency of the estimator.

Using a procedure similar to that just described, we constructed exact sampling history weights for the properties in each augmentation sample as it entered the panel.[6]

[5] Even for the substantial number of baseline sample properties for which a survey attempt was unsuccessful, we had obtained enough information in prior fieldwork to ascertain sampling probabilities and estimate the characteristics of interest.

[6] Those weights do not appear on the files but are documented in E. Wayne Hansen and Marsha E. Baran, Augmenting the HASE Panel of Residential Properties, Site I, The Rand Corporation, N-1448-HUD, forthcoming, and E. Wayne Hansen and Patricia Boren, Augmenting the HASE Panel of Residential Properties, Site II, The Rand Corporation, N-1614-HUD, forthcoming.

Table 4.1

BASELINE PANEL PROPERTY WEIGHTS, SITE I

Weighting Class		Number of Properties		
Number	Description	Population Estimate	Baseline Panel	Weight
<i>Urban Rental</i>				
Lower tercile:				
1	Single-family	274	115	2.38
2	2-4 units	783	105	7.46
3	5-10 units	70	29	2.41
21	11-20 units	6	3	3.00
22	21+ units	3	3	1.00
Middle tercile:				
4	Single-family	697	239	2.92
5	2-4 units	861	152	5.66
6	5-10 units	104	58	1.79
23	11-20 units	40	32	1.25
24	21+ units	17	11	1.55
Upper tercile:				
7	Single-family	750	93	8.06
8	2-4 units	954	61	15.64
9	5-10 units	19	10	1.90
25	11-20 units	16	12	1.33
26	21+ units	20	10	2.00
<i>Rural Rental</i>				
Lower and middle terciles:				
10	Single-family	294	63	4.67
27	2+ units	243	76	3.20
Upper tercile:				
11	Single-family	107	17	6.29
28	2+ units	74	19	3.89
<i>Urban Owner</i>				
12	Lower quartile	5,615	159	35.31
13	Second quartile	6,917	201	34.41
14	Upper two quartiles	13,208	103	128.23
<i>Rural Owner</i>				
15	Lower two quartiles	3,041	99	30.72
16	Upper two quartiles	2,772	50	55.44
<i>Specialized Housing</i>				
17	Rooming houses	37	17	2.18
Mobile homes:				
18	1-10 units	106	13	8.15
32	11-20 units	4	1	4.00
33	21+ units	9	6	1.50
<i>Landlord-occupied^a</i>				
2-4 units:				
29	Lower tercile	593	81	7.32
30	Middle tercile	517	89	5.81
31	Upper tercile	235	15	15.67
Total		38,386	1,942	19.77

SOURCE: Calculated by HASE staff from the records of all baseline surveys, Site I.

NOTE: Weights were obtained by dividing the number of empaneled properties in each class into the population estimate for that class. The population estimates were based on the sampling history of the baseline sample drawn from an exhaustive sampling frame.

^aRental properties of 2 to 4 units with at least one unit occupied by the landlord or his agent.

Table 4.2

BASELINE PANEL PROPERTY WEIGHTS, SITE II

Weighting Class		Number of Properties		
Number	Description	Population Estimate	Baseline Panel	Weight
<i>Urban Rental</i>				
Lower tercile:				
1	Single-family	1,142	111	10.29
2	2-4 units	1,136	137	8.29
3	5-9 units	83	40	2.08
21	10-19 units	13	6	2.17
22	20+ units	6	6	1.00
Middle tercile:				
4	Single-family	1,917	294	6.52
5	2-4 units	844	155	5.45
6	5-9 units	46	20	2.30
23	10-19 units	9	4	2.25
24	20+ units	7	5	1.40
Upper tercile:				
7	Single-family	2,716	176	15.43
8	2-4 units	290	48	6.04
9	5-9 units	14	5	2.80
25	10-19 units	4	3	1.33
26	20+ units	20	20	1.00
<i>Rural Rental</i>				
Lower and middle terciles:				
10	Single-family	393	103	3.82
27	2+ units	94	33	2.85
Upper tercile:				
11	Single-family	276	58	4.76
28	2+ units	7	3	2.33
<i>Urban Owner</i>				
12	Lowest quartile	10,944	151	72.48
13	Second quartile	13,581	184	73.81
14	Upper two quartiles	25,661	82	312.94
<i>Rural Owner</i>				
15	Lower two quartiles	2,071	90	23.01
16	Upper two quartiles	4,051	60	67.52
<i>Specialized Housing</i>				
17	Rooming houses	5	2	2.50
18	Mobile homes:			
	1-9 units	4	2	2.00
	10+ units	14	11	1.27
<i>Landlord-occupied^a</i>				
29	Lower tercile	358	73	4.90
30	Middle tercile	223	70	3.19
31	Upper tercile	137	17	8.06
<i>Subsidized Housing</i>				
Lower tercile:				
36	10-19 units	1	1	1.00
37	20+ units	10	10	1.00
38	Middle tercile: 20+ units	6	6	1.00
Total		66,083	1,986	33.27

SOURCE: Calculated by HASE staff from records of all baseline surveys, Site II.

NOTE: Weights were obtained by dividing the number of empaneled properties in each class into the population estimate for that class. The population estimates were based on the sampling history of the baseline sample drawn from an exhaustive sampling frame.

^aRental properties of 2 to 4 units with at least one unit occupied by the landlord or his agent.

FIELD-COMPLETE WEIGHTS

SAMWT values are permanent and can be applied to the same panel property records in any file to estimate parameters for the county's baseline population of residential properties in a particular wave. However, since those weights were developed for the full baseline panel, they must be applied to all panel records to produce unbiased estimates. Because of survey nonresponse, some panel properties will lack field-complete records in any given file. Most users will want to weight only the records that are field-complete in a file, not the full baseline panel. We had to develop a file-specific alternative to SAMWT that took account of the uncertain probabilities of selecting field-complete records from the entire panel (in postbaseline files, the baseline panel as augmented).

To solve the problem, we adapted the method described above for calculating panel weights. We assumed that the records of empaneled properties in the same weighting class had an equal probability of being selected for the field-complete subsample; estimated the parent populations represented by the field-complete records in each class; [7] and calculated average weights for the properties in each class (documented by the variable FSCWT). We then compared the weighted field-complete estimates with control estimates produced by applying panel weights to the full panel.

The field-complete weights generally produced good estimates, thus validating our assumption of equal selection probability within classes. However, several classes, particularly those containing mobile homes, have estimators that may be less efficient than some users desire. We did not subdivide the weighting classes and recalculate new field-complete weights, as we did with the panel weights. In the audit report for each file, we report the classes in which uncompensated biases remain, and leave it to users to make the appropriate adjustments.

[7] In this case, we stratified HASE sample properties into weighting classes by their current-wave characteristics (documented by variable REVPS) and determined how many in each weighting class were chosen from each baseline panel stratum.

SURVEY-SPECIFIC WEIGHTS

FSCWT is a general-purpose weight for the files covering the full HASE sample.[8] Except for a handful of records judged unsuitable for weighting (most representing empaneled properties that merged with unsampled properties), all field-complete records (FSCCAT = 1) in those files were assigned a field-complete weight. We also calculated special-purpose weights for the files of a particular survey type. Like FSCWT, they may be used directly in standard weighting procedures found in statistical program packages such as SPSS. The survey-specific weights are described below.

Landlord Survey Files

Two special attitude weights were added to the wave 2 and wave 4 files for each site. WPATT, the property-level attitude weight, applies to rental property records with fully answered attitude modules (not necessarily field-complete). WPATT allows analysts to estimate the distribution of landlord attitudes by type of property. Because attitudes are a personal attribute, WLATT, the landlord-level attitude weight, was computed for one record per landlord.[9] WLATT allows analysts to estimate the distribution of attitudes among the county's landlords.

Household Survey Files

Because it is possible for a field-complete record to lack full information about household and income characteristics, special household-level weights were computed for use with records containing complete household and income information. HCPWT is applied to household-complete records (HCPLT = 0 or 1) and YCPWT is applied to income-complete records (YCPLT = 0 or 1).[10] Since the sampling unit

[8] That is, all LL, TH, and RB files except RB13, RB22, and RB23.

[9] For the derivation and use of WPATT and WLATT, see Roger Johnston, Audit of the Landlord Attitude Survey, Site II, Wave 2, The Rand Corporation, N-1329-HUD, September 1980.

[10] Remember that the time references are different for the two categories of data. Household data pertain to the current year, whereas income and expense data pertain to the previous year.

for the household survey is an individual dwelling, we calculated FSCWT for records representing vacant units as well as field-complete records. FSCWT can therefore be used to examine selected characteristics of both housing units and households, but HCPWT and YCPWT can be used to examine only the characteristics of households.

Residential Building Survey Files

For these files, BLDWT is the equivalent of FSCWT, although it is not strictly a field-complete weight. Covering a broader sample, BLDWT was built for all records with fully answered A modules pertaining to the property.

ADDING WEIGHTS TO OTHER SUBSAMPLES

To compute weights for other subsamples of records, such as attitude-complete household survey records, the user must determine the frequency distribution of his subsample on the variable REVPS, select the appropriate population parameter from the relevant audit report (for the attitude-complete example cited, total number of households) and divide the population parameter by the sample frequency for each value of REVPS (representing each weighting class). Before these new weights are used, population parameters should be computed and compared with those given in the audit report to be certain that the estimates are not biased.

V. RELATED HASE PUBLICATIONS

From the some 300 monographs published by Rand to document the plans, methods, and findings of the Supply Experiment, this section lists and briefly describes those that are pertinent to the survey files.[1] They are indexed by subject, so some titles appear more than once. Within subjects, publications are listed in order of publication number, which is roughly chronological. A short narrative follows each list indicating the specific topics, scope, and interrelationship of the publications covered.

SITE SELECTION

- N-1025-HUD. Testing the Supply Response to Housing Allowances: An Experimental Design. Ira S. Lowry, C. Peter Rydell, David de Ferranti. February 1981. (First issued as WN-7711-UI, December 1971.) 165 pp.
- N-1026-HUD. Site Selection for the Housing Assistance Supply Experiment: Stage I. Housing Assistance Supply Experiment Staff. July 1980. (First issued as WN-7833-HUD, May 1972.) 75 pp.
- N-1033-HUD. Site Selection for the Housing Assistance Supply Experiment: SMSAs Proposed for Site Visits (A Briefing). Housing Assistance Supply Experiment Staff. July 1980. (First issued as WN-7907-HUD, August 1972.) 11 pp.
- N-1035-HUD. Estimates of Eligibility and Allowance Entitlement under Alternative Housing Allowance Programs. Barbara M. Woodfill, Tiina Repnau. July 1980. (First issued as WN-7974-HUD, September 1972.) 125 pp.
- N-1041-HUD. Collected Site Selection Documents: Housing Assistance Supply Experiment. R. Dubinsky. July 1980. (First issued as WN-8034-HUD, January 1973.) 61 pp.
- R-2630-HUD. The Design of the Housing Assistance Supply Experiment. Ira S. Lowry (ed.). June 1980. 338 pp.

[1] For the full list of HASE publications, see Ira S. Lowry (ed.), Experimenting with Housing Allowances: Final Report of the Housing Assistance Supply Experiment, The Rand Corporation, R-2740-HUD, forthcoming.

Following the experimental design proposed in N-1025, we screened 217 Standard Metropolitan Statistical Areas (SMSAs) and 14 State Economic Areas (SEAs) for suitability as HASE sites. As reported in N-1026, we selected 19 preliminary candidates that met the following criteria:

- Had a 1970 population of 100,000 to 250,000.
- Fell in one of two categories combining 1960-70 economic growth and percentage of black population in 1970: (a) fast growth (6.9+ percent), low percent black (<10.8 percent), or (b) slow growth (<6.9 percent) and high percent black (10.8+ percent).
- Was not part of an interstate or other larger housing market.
- Had a HUD-recognized housing authority.

Six candidates were then chosen for visits by a Rand-HUD team and preliminary discussions with local officials; N-1033 consists of briefing charts comparing features of the six sites. N-1041 reviews the early progress in site selection and reproduces the questionnaires and briefing charts used in the site visits. N-1035 compares projected costs of administering the allowance program in the six sites and recommends the two least expensive-- Green Bay, Wisconsin, and Saginaw, Michigan. Local officials in Saginaw ultimately declined to participate, whereupon the South Bend, Indiana SMSA was chosen as the second site; that development is summarized in R-2630.

SURVEY SAMPLE DESIGN AND SELECTION

General

N-1027-HUD. Preliminary Design for the Housing Assistance Supply Experiment. I. S. Lowry. July 1980. (First issued as WN-7866-HUD, June 1972.) 81 pp.

N-1037-HUD. Supplemental Design Papers for the Housing Assistance Supply Experiment. Housing Assistance Supply Experiment Staff. October 1980. (First issued as WN-7982-HUD, July 1972.) 61 pp.

N-1040-HUD. Sample Design for the Housing Assistance Supply Experiment. Timothy M. Corcoran, Eugene C. Poggio, Tiina Repnau. October 1980. (First issued as WN-8029-HUD, November 1972.) 139 pp.

N-1045-HUD. The Effects of Nonresponse on Record Completion in a Panel of Residential Properties. Timothy M. Corcoran. December 1980. (First issued as WN-8174-HUD, April 1973.) 55 pp.

N-1049-HUD. The Role of Household Survey Data in the Supply Experiment. Adele R. Palmer (ed.). (First issued as WN-8218-HUD, March 1973.) 111 pp.

R-2630-HUD. The Design of the Housing Assistance Supply Experiment. Ira S. Lowry (ed.). June 1980. 338 pp.

Early HASE sample designs are proposed in N-1027 and N-1037. Most of the basic sample design is set forth in N-1040, to be later developed in detail for each site. Section IV of R-2630 updates N-1040, integrating the household survey and sampling issues raised in N-1049 and accounting for the estimated panel attrition rates in N-1045. Users are cautioned to be wary of specific details in R-2630 because sample design was further revised after the document's original publication.

Site I

N-1043-HUD. Preliminary Description of Sample-Selection Procedure. Eugene Poggio. October 1980. (First issued as WN-8101-HUD, January 1973.) 11 pp.

N-1047-HUD. Sample-Selection Procedures for Site I. Eugene C. Poggio. December 1980. (First issued as WN-8201-HUD, March 1973.) 17 pp.

N-1064-HUD. Sampling Nonresidential Properties: Site I. Timothy M. Corcoran. December 1980. (First issued as WN-8623-HUD, March 1974.) 23 pp.

N-1065-HUD. Survey Sample Design for Site I. Timothy M. Corcoran. February 1981. (First issued as WN-8640-HUD, March 1974.) 113 pp.

N-1066-HUD. Selecting the Baseline Sample of Residential Properties: Site I. Eugene C. Poggio. February 1981. (First issued as WN-8645-HUD, March 1977.) 107 pp.

- N-1067-HUD. Characteristics of the Residential Baseline Survey Samples for Site I. Tiina Repnau. March 1981. (First issued as WN-8682-HUD, May 1974.) 59 pp.
- N-1107-HUD. Selecting the Permanent Panel of Residential Properties, Site I. Timothy M. Corcoran. April 1981. (First issued as WN-9575-HUD, April 1978.) 89 pp.
- N-1448-HUD. Augmenting the HASE Panel of Residential Properties, Site I. E. Wayne Hansen and Marsha E. Baran. Forthcoming.
- R-1659-HUD. First Annual Report of the Housing Assistance Supply Experiment. October 1974. 85 pp.

The basic sample design for Site I is set forth in N-1065. Building on N-1040 and the findings from N-1049 and N-1045, it incorporates the research objectives stated in R-2630 and the scaled-down sample explained in R-1659. The mechanics of selecting the sample are briefly covered in N-1043 and N-1047. A casualty of the decision to trim the sample was the sample of nonresidential properties discussed in N-1064.

After the residential property sample was selected (as specified in N-1065), the screening survey was administered and the baseline sample selected. Procedures for selecting and stratifying baseline sample properties are described in N-1066. The characteristics of those properties are described in N-1067. The results of the baseline survey were used to select and stratify properties and units in the baseline HASE panel, documented in N-1107. At each later survey wave, the panel was increased by a complement of residential properties, as described in N-1448. Postsurvey audits occasionally uncovered sampling errors, which are explained in detail in the relevant audit reports.

Site II

- N-1061-HUD. Sample Selection Procedure for St. Joseph County, Indiana. Sandra H. Berry, Daniel A. Relles, Eugene Seals. May 1981. (First issued as WN-8588-HUD, January 1974.) 41 pp.

- N-1090-HUD. Selecting the Baseline Sample of Residential Properties: Site II. Daniel A. Relles. May 1981. (First issued as WN-9027-HUD, October 1975.) 108 pp.
- N-1109-HUD. Selecting the Permanent Panel for Residential Properties: Site II. Timothy M. Corcoran. April 1981. (First issued as WN-9577-HUD, April 1977.) 121 pp.
- N-1614-HUD. Augmenting the HASE Panel of Residential Properties, Site II. E. Wayne Hansen and Patricia Boren. Forthcoming.

The sampling experiences and procedures developed for Site I (N-1065, N-1066, N-1067, and N-1047) were used to select the Site II baseline sample, which is fully documented in N-1090. The technical procedures are described in N-1061. Selection of the HASE panel is documented in N-1109, and its periodic augmentation is described in N-1614. Corrections of individual sampling errors are described in relevant Site II audit reports.

SURVEY DESIGN

- N-1027-HUD. Preliminary Design for the Housing Assistance Supply Experiment. I. S. Lowry. July 1980. (First issued as WN-7866-HUD, June 1972.) 81 pp.
- N-1028-HUD. Preliminary Description of Survey Instruments. Housing Assistance Supply Experiment Staff. July 1980. (First issued as WN-7883-HUD, June 1972.) 25 pp.
- N-1055-HUD. Neighborhoods in Brown County. Bryan Ellickson. December 1980. (First issued as WN-8468-HUD, November 1973.) 55 pp.
- N-1060-HUD. Market Intermediaries and Indirect Suppliers: Reconnaissance and Research Design for Site I. William G. Grigsby, Michael Shanley, Sammis B. White. July 1980. (First issued as WN-8577-HUD, February 1974.) 65 pp.
- N-1071-HUD. The Screening Survey Instrument and Supplementary Forms: Site I. HASE Survey Group. March 1981. (First issued as WN-8688-HUD, July 1974.) 93 pp.
- N-1072-HUD. Interviewer Training Manual for the Site I Screening Survey. HASE Survey Group. May 1981. (First issued as WN-8689-HUD, October 1974.) 125 pp.

- N-1074-HUD. Codebook for the Survey of Tenants and Homeowners, Site I, Baseline. HASE Survey Group. March 1981. (First issued as WN-8809-HUD, December 1975.) 821 pp.
- N-1075-HUD. Codebook for the Baseline Survey of Residential Buildings in Site I. Ann W. Wang, Charles W. Noland. March 1981. (First issued as WN-8810-HUD, February 1975.) 85 pp.
- N-1076-HUD. Codebook for the Survey of Neighborhoods, Site I, Baseline. HASE Survey Group. March 1981. (First issued as WN-8811-HUD, June 1977.) 167 pp.
- N-1077-HUD. Index to the Site I Maps. Doris Dong. March 1981. (First issued as WN-8819-HUD, August 1974.) 75 pp.
- N-1080-HUD. Codebook for the Baseline Landlord Survey in Site I. Ann W. Wang, Doris Crocker, Stephanie Schank. May 1981. (First issued as WN-8976-HUD, March 1975.) 395 pp.
- N-1089-HUD. Market Intermediaries and Indirect Suppliers: Reconnaissance and Research Design for Site II. William G. Grigsby, Michael Shanley, Sammis B. White. July 1980. (First issued as WN-9026-HUD, May 1975.) 57 pp.
- N-1106-HUD. Are Further Survey Cycles Needed in Site I? Ira S. Lowry. March 1981. (First issued as WN-9541-HUD, July 1976.) 65 pp.
- N-1122-HUD. Codebook for the Attitude Module of the Landlord Survey, Site II, Baseline. Phyllis L. Ellickson, David E. Kanouse, HASE Survey Group. May 1981. (First issued as WN-9801-HUD, April 1978.) 83 pp.
- N-1123-HUD. Codebook for the Attitude Module of the Survey of Tenants and Homeowners, Site II, Baseline. Phyllis L. Ellickson, HASE Survey Group. May 1981. (First issued as WN-9802-HUD, November 1977.) 91 pp.
- N-1127-HUD. Index to the Site II Maps. Housing Assistance Supply Experiment Staff. May 1981. (First issued as WN-9901-HUD, December 1977.) 75 pp.
- N-1205-HUD. Neighborhoods in St. Joseph County, Indiana. John E. Bala. September 1979. 47 pp.
- N-1321-HUD. Survey Operations for the Neighborhood Street Observation Survey, Site I, Wave 4. Marilyn Fisher. Forthcoming.

- N-1487-HUD. Survey Operations for the Neighborhood Street Observation Survey, Site II, Wave 4. Marilyn Fisher. Forthcoming.
- N-1537-HUD. Survey of HAO Clients Who Enrolled But Never Received Payments: Audit Report and Codebook. Diane Schoeff. Forthcoming.
- N-1538-HUD. Survey of HAO Client Landlords, Site II: Audit Report and Codebook. Diane Schoeff. Forthcoming.
- R-2630-HUD. The Design of the Housing Assistance Supply Experiment. Ira S. Lowry (ed.). June 1980. 338 pp.

Early views of survey data requirements and strategy are presented in N-1027. That preliminary design is expanded into a framework for developing the landlord, tenant, and building survey instruments in N-1028. Final plans for the contents, strategy, and roles of the surveys in the experimental design are summarized in R-2630. A major revision, considered in N-1106, was the decision to reduce the survey agenda from six annual waves to four.

To aid in selecting the baseline sample, a brief screening survey was administered to the owners and occupants of a large marketwide sample of residential properties. The Site I instrument and interviewer instructions are documented in N-1071 and N-1072, respectively.

The first versions of the detailed survey instruments are documented in the baseline codebooks for Site I (Ns 1074-1076, 1080). The most important subsequent instrument change was the development of the attitude module, questions eliciting the respondent's knowledge of and opinions about the allowance program. Attitude modules were incorporated in the landlord and household survey instruments for Site II baseline (see N-1122, N-1123) and were added to the postbaseline landlord and household survey instruments in Site I. The detailed instruments are documented in the codebooks for each file (see "File Documentation," below). (For all instrument revisions, see Sec. II of this report.)

Unlike the other HASE surveys, which were addressed to samples, the neighborhood surveys were addressed to the entire county, with HASE-defined neighborhoods and street segments as units of observation. N-1055 and N-1205 present the rationale and procedures for defining neighborhoods. Fieldwork procedures and instrument changes for the street observation survey are detailed in N-1321 and N-1487. N-1077 and N-1127 inventory all maps to be used in the project, especially for the neighborhood surveys. For each map, the source, scale, date, description, and estimate of accuracy are provided.

Under contract to the Housing Allowance Offices (HAOs), we conducted a survey of clients who enrolled in the allowance program but terminated without ever receiving payments (documented in N-1537) and a survey of the landlords of program clients in Site II (documented in N-1538).

HASE fielded two other surveys that did not yield machine-readable data files. The survey of market intermediaries such as mortgage lenders, real estate brokers, and home improvement contractors is documented in N-1060 and N-1089 for the two sites, respectively.

DATA MANAGEMENT

N-1029-HUD. Data Management System: Part I, Fieldwork Data and Data Transfer Specifications. G. Levitt. July 1980. (First issued as WN-7885-HUD, July 1972.) 15 pp.

N-1034-HUD. Data Management System: Part II, The Management of Data for Analysis. G. Levitt. February 1981. (First issued as WN-7953-HUD, August 1972.) 29 pp.

N-1042-HUD. Data Management System for the Housing Assistance Supply Experiment. C. M. Dodd, M. C. Fujisaki, G. Levitt. July 1980. (First issued as WN-8054-HUD, November 1972.) 51 pp.

N-1062-HUD. Baseline Data Systems Design, Implementation, and Operation Report. Gerald Levitt (ed.). May 1981. (First issued as WN-8611-HUD, March 1974.) 179 pp.

- N-1098-HUD. HASE Data Systems: The HASE Audit and Analysis Support Package (HAASP). Eric Harslem, Michael Rogson. May 1981. (First issued as WN-9292-HUD, November 1975.) 63 pp.
- N-1131-HUD. HAMISH Update System: Input Form Specifications. Zahava B. Doering, Susan Welt. May 1981. (First issued as WN-10029-HUD, January 1978.) 169 pp.
- N-1132-HUD. Sample Maintenance Office Procedures Manual. Susan Welt. May 1981. (First issued as WN-10039-HUD, January 1979.) 357 pp.
- N-1133-HUD. HAMISH Survey Support System: Technical Description. Zahava B. Doering, Susan Welt. May 1981. (First issued as WN-10057-HUD, May 1978.) 207 pp.
- P-5494-1. Documentation in Social Science Experiments. Michael M. Rogson. January 1976. 19 pp.

Preliminary specifications for managing the data collected in both the surveys and the program are presented in two parts: field collection and transfer to Rand (N-1029) and preparing the data for analysis (N-1034). Those design specifications are developed further in N-1042. The actual system used for data entry and reduction is described in N-1062. Audit and analytic procedures were carried out using the software and data systems described in N-1098. One of those systems, HAMISH, is documented in detail because of its crucial role in keeping track of the survey sample. N-1133 describes how HAMISH supported survey fieldwork. N-1132 details all procedures used in accounting for the survey sample. Instructions for coding HAMISH update forms are given in N-1131.

Although a few of its specific suggestions were not adopted, P-5494-1 sets forth the general philosophy governing data management and documentation in the Supply Experiment.

FILE DOCUMENTATION

Codebooks and audit reports are the primary forms of documentation for the 40 HASE data files. The three types of codebooks summarize file contents: main-survey codebooks cover the

bulk of survey responses; attitude-module codebooks cover attitudes toward the allowance program for respondents to the landlord and household surveys; and supplemental codebooks cover derived variables. Audit reports assess the completeness and reliability of the data. Each file is represented by at least one codebook and one audit report. Since most users will be interested in a particular file, we cite codebooks and audit reports together by file rather than provide separate lists by publication type. Rand published the codebooks individually for each file, as indicated in the list below; DUALabs has combined the codebooks for all 40 HASE files in Housing Research Data Center User Manual, Vol. 2: HASE Program and Survey File Codebooks, forthcoming.

Landlord Survey

Site I, Baseline

- N-1080-HUD. Codebook for the Baseline Landlord Survey in Site I. Ann W. Wang, Doris Crocker, Stephanie Schank. May 1981. (First issued as WN-8976-HUD, March 1975.) 395 pp.
- N-1381-HUD. Supplemental Codebook for the Baseline Survey of Landlords, Site I. Kenneth Wong, Patricia Boren. September 1980. 258 pp.
- N-1081-HUD. Audit of the Baseline Landlord Survey in Site I. Richard E. Stanton, Therman P. Britt. October 1979. (First issued as WN-8977-HUD, June 1977.) 201 pp.

Site I, Wave 2

- N-1189-HUD. Codebook for the Survey of Landlords, Site I, Wave 2. Patricia Boren. June 1979. 654 pp.
- N-1363-HUD. Codebook for the Attitude Module of the Landlord Survey, Site I, Wave 2. Roger Johnston, Patricia Boren. January 1980. 94 pp.
- N-1382-HUD. Supplemental Codebook for the Survey of Landlords, Site I, Wave 2. Kenneth Wong, Patricia Boren, Sally Trude. January 1980. 250 pp.

N-1398-HUD. Audit of the Landlord Survey, Site I, Wave 2.
John W. Dawson. February 1981. 71 pp.

Site I, Wave 3

N-1349-HUD. Codebook for the Survey of Landlords, Site I, Wave 3. Patricia Boren. January 1980. 640 pp.

N-1364-HUD. Codebook for the Attitude Module of the Landlord Survey, Site I, Wave 3. Patricia Boren. February 1980. 64 pp.

N-1383-HUD. Supplemental Codebook for the Survey of Landlords, Site I, Wave 3. Kenneth Wong, Patricia Boren. February 1980. 265 pp.

N-1399-HUD. Audit of the Landlord Survey, Site I, Wave 3.
FDG Staff. Forthcoming.

Site I, Wave 4

N-1351-HUD. Codebook for the Survey of Landlords, Site I, Wave 4. Patricia Boren. February 1980. 538 pp.

N-1365-HUD. Codebook for the Attitude Module of the Landlord Survey, Site I, Wave 4. Patricia Boren, Christina Witsberger. March 1980. 80 pp.

N-1384-HUD. Supplemental Codebook for the Survey of Landlords, Site I, Wave 4. Kenneth Wong, Patricia Boren. March 1980. 263 pp.

N-1400-HUD. Audit of the Landlord Survey, Site I, Wave 4.
FDG Staff. Forthcoming.

Site II, Baseline

N-1104-HUD. Codebook for the Survey of Landlords, Site II, Baseline. HASE Survey Group. April 1981. (First issued as WN-9444-HUD, July 1976.) 579 pp.

N-1122-HUD. Codebook for the Attitude Module of the Landlord Survey, Site II, Baseline. Phyllis L. Ellickson, David E. Kanouse, HASE Survey Group. May 1981. (First issued as WN-9801-HUD, April 1978.) 83 pp.

N-1385-HUD. Supplemental Codebook for the Baseline Survey of Landlords, Site II. Patricia Boren, Kenneth Wong. December 1980. 236 pp.

N-1121-HUD. Audit of the Baseline Landlord Survey in Site II.
Richard E. Stanton, Therman P. Britt. October 1979. (First
issued as WN-9739-HUD, February 1979.) 159 pp.

Site II, Wave 2

N-1140-HUD. Codebook for the Survey of Landlords, Site II,
Wave 2. Patricia Boren. May 1981. (First issued as
WN-10294-HUD, December 1978.) 607 pp.

N-1142-HUD. Codebook for the Attitude Module of the Landlord
Survey, Site II, Wave 2. Patricia Boren, Roger Johnston.
May 1980. (First issued as WN-10422-HUD, February 1979.)
110 pp.

N-1386-HUD. Supplemental Codebook for the Survey of Landlords,
Site II, Wave 2. Patricia Boren, Kenneth Wong. May 1980.
270 pp.

N-1401-HUD. Audit of the Landlord Survey, Site II, Wave 2.
John W. Dawson and Roger Johnston. Forthcoming.

N-1329-HUD. Audit of the Landlord Attitude Survey, Site II,
Wave 2. Roger Johnston. September 1980. 32 pp.

Site II, Wave 3

N-1352-HUD. Codebook for the Survey of Landlords, Site II,
Wave 3. Patricia Boren. June 1980. 530 pp.

N-1366-HUD. Codebook for the Attitude Module of the Landlord
Survey, Site II, Wave 3. Patricia Boren, Christina
Witsberger. July 1980. 62 pp.

N-1387-HUD. Supplemental Codebook for the Survey of Landlords,
Site II, Wave 3. Patricia Boren, Kenneth Wong. July 1980.
267 pp.

N-1402-HUD. Audit of the Landlord Survey, Site II, Wave 3.
FDG Staff. Forthcoming.

Site II, Wave 4

N-1353-HUD. Codebook for the Survey of Landlords, Site II,
Wave 4. Patricia Boren, Deborah Wesley. July 1980. 518 pp.

N-1367-HUD. Codebook for the Attitude Module of the Landlord
Survey, Site II, Wave 4. Patricia Boren, Christina
Witsberger. August 1980. 78 pp.

N-1388-HUD. Supplemental Codebook for the Survey of Landlords, Site II, Wave 4. Patricia Boren, Kenneth Wong. August 1980. 259 pp.

N-1403-HUD. Audit of the Landlord Survey, Site II, Wave 4. FDG Staff. Forthcoming.

Household Survey

Site I, Baseline

N-1074-HUD. Codebook for the Survey of Tenants and Homeowners, Site I, Baseline. HASE Survey Group. March 1981. (First issued as WN-8809-HUD, December 1975.) 821 pp.

N-1373-HUD. Supplemental Codebook for the Baseline Household Survey, Site I. Evelyn C. Casper. October 1980. 322 pp.

N-1097-HUD. Audit of the Baseline Household Survey in Site I. Lawrence Helbers. October 1979. (First issued as WN-9229-HUD, February 1979.) 125 pp.

Site I, Wave 2

N-1190-HUD. Codebook for the Household Survey, Site I, Wave 2. Patricia Boren. July 1979. 1057 pp.

N-1368-HUD. Codebook for the Attitude Module of the Household Survey, Site I, Wave 2. Patricia Boren. January 1980. 94 pp.

N-1374-HUD. Supplemental Codebook for the Household Survey, Site I, Wave 2. Sally Trude, Evelyn Casper, Roberta Allen. January 1980. 299 pp.

N-1410-HUD. Audit of the Household Survey, Site I, Wave 2. Carole Beauchemin. Forthcoming.

Site I, Wave 3

N-1309-HUD. Codebook for the Household Survey, Site I, Wave 3. Patricia Boren. November 1979. 1003 pp.

N-1345-HUD. Codebook for the Attitude Module of the Household Survey, Site I, Wave 3. Patricia Boren. January 1980. 112 pp.

N-1375-HUD. Supplemental Codebook for the Household Survey, Site I, Wave 3. Evelyn Casper, Roberta Allen, Sally Trude. February 1980. 302 pp.

N-1411-HUD. Audit of the Household Survey, Site I, Wave 3.
FDG Staff. Forthcoming.

Site I, Wave 4

N-1358-HUD. Codebook for the Household Survey, Site I, Wave 4.
Patricia Boren. March 1980. 892 pp.

N-1370-HUD. Codebook for the Attitude Module of the Household Survey, Site I, Wave 4. Patricia Boren. March 1980.
112 pp.

N-1376-HUD. Supplemental Codebook for the Household Survey, Site I, Wave 4. Roberta Allen, Evelyn Casper, Sally Trude.
March 1980. 290 pp.

N-1412-HUD. Audit of the Household Survey, Site I, Wave 4.
FDG Staff. Forthcoming.

Site II, Baseline

N-1112-HUD. Codebook for the Survey of Tenants and Homeowners, Site II, Baseline. HASE Survey Group. April 1981. (First issued as WN-9651-HUD, April 1977.) 903 pp.

N-1123-HUD. Codebook for the Attitude Module of the Survey of Tenants and Homeowners, Site II, Baseline. Phyllis L. Ellickson, HASE Survey Group. May 1981. (First issued as WN-9802-HUD, November 1977.) 91 pp.

N-1377-HUD. Supplemental Codebook for the Household Survey, Site II, Baseline. Evelyn C. Casper. December 1980.
276 pp.

N-1108-HUD. Audit of the Baseline Survey of Tenants and Homeowners in Site II. John E. Mulford. October 1979. (First issued as WN-9576-HUD, August 1978.) 97 pp.

Site II, Wave 2

N-1139-HUD. Codebook for the Survey of Tenants and Homeowners, Site II, Wave 2. Patricia Boren. May 1981. (First issued as WN-10293-HUD, October 1978.) 1019 pp.

N-1143-HUD. Codebook for the Attitude Module of the Survey of Tenants and Homeowners, Site II, Wave 2. Patricia Boren. May 1981. (First issued as WN-10432-HUD, March 1979.) 145 pp.

N-1378-HUD. Supplemental Codebook for the Household Survey, Site II, Wave 2. Evelyn C. Casper, Roberta Allen. May 1980. 289 pp.

N-1413-HUD. Audit of the Household Survey, Site II, Wave 2. FDG Staff. Forthcoming.

N-1173-HUD. Audit of the Household Attitude Survey, Site II, Wave 2. Marsha Baran. July 1979. 31 pp.

Site II, Wave 3

N-1359-HUD. Codebook for the Household Survey, Site II, Wave 3. Patricia Boren. May 1980. 908 pp.

N-1371-HUD. Codebook for the Attitude Module of the Household Survey, Site II, Wave 3. Patricia Boren. June 1980. 112 pp.

N-1379-HUD. Supplemental Codebook for the Household Survey, Site II, Wave 3. Roberta Allen, Evelyn Casper. July 1980. 286 pp.

N-1414-HUD. Audit of the Household Survey, Site II, Wave 3. FDG Staff. Forthcoming.

Site II, Wave 4

N-1360-HUD. Codebook for the Household Survey, Site II, Wave 4. Patricia Boren, Deborah Wesley. July 1980. 894 pp.

N-1372-HUD. Codebook for the Attitude Module of the Household Survey, Site II, Wave 4. Patricia Boren. August 1980. 111 pp.

N-1380-HUD. Supplemental Codebook for the Household Survey, Site II, Wave 4. Evelyn C. Casper, Roberta Allen. August 1980. 290 pp.

N-1415-HUD. Audit of the Household Survey, Site II, Wave 4. FDG Staff. Forthcoming.

Residential Building Survey

Site I, Baseline

N-1075-HUD. Codebook for the Baseline Survey of Residential Buildings in Site I. Ann W. Wang, Charles W. Noland. March 1981. (First issued as WN-8810-HUD, February 1975.) 85 pp.

N-1078-HUD. Audit Report for the Baseline Survey of Residential Buildings in Site I. Larry A. Day. December 1979. (First issued as WN-8973-HUD, January 1976.) 121 pp.

Site I, Wave 2

N-1191-HUD. Codebook for the Survey of Residential Buildings, Site I, Wave 2. Patricia Boren. August 1979. 212 pp.

N-1389-HUD. Supplemental Codebook for the Survey of Residential Buildings, Site I, Wave 2. Sally Trude, Patricia Boren, Beverly Lowe. January 1980. 136 pp.

N-1404-HUD. Audit of the Survey of Residential Buildings, Site I, Wave 2. Beverly F. Lowe. May 1981. 77 pp.

Site I, Wave 3

N-1405-HUD. Codebook for the Survey of Residential Buildings, Site I, Wave 3. Patricia Boren. March 1980. 161 pp.

N-1390-HUD. Supplemental Codebook for the Survey of Residential Buildings, Site I, Wave 3. Patricia Boren, Sally Trude. March 1980. 136 pp.

N-1406-HUD. Audit of the Survey of Residential Buildings, Site I, Wave 3. Sandra S. Figge. May 1981. 29 pp.

Site I, Wave 4

N-1354-HUD. Codebook for the Survey of Residential Buildings, Site I, Wave 4. Patricia Boren. March 1980. 279 pp.

N-1391-HUD. Supplemental Codebook for the Survey of Residential Buildings, Site I, Wave 4. Patricia Boren, Sally Trude. March 1980. 147 pp.

N-1474-HUD. Audit of the Survey of Residential Buildings, Site I, Wave 4. Sandra S. Figge. Forthcoming.

Site II, Baseline

N-1126-HUD. Codebook for the Survey of Residential Buildings, Site II, Baseline. HASE Survey Group. May 1981. (First issued as WN-9895-HUD, September 1977.) 181 pp.

N-1392-HUD. Supplemental Codebook for the Baseline Survey of Residential Buildings, Site II. Patricia Boren. November 1980. 115 pp.

N-1120-HUD. Audit of the Baseline Survey of Residential Buildings in Site II. Larry A. Day, Charles W. Noland. October 1979. (First issued as WN-9738-HUD, December 1977.) 92 pp.

Site II, Wave 2

N-1355-HUD. Codebook for the Survey of Residential Buildings, Site II, Wave 2. Patricia Boren. June 1980. 140 pp.

N-1393-HUD. Supplemental Codebook for the Survey of Residential Buildings, Site II, Wave 2. Patricia Boren. June 1980. 112 pp.

N-1407-HUD. Audit of the Survey of Residential Buildings, Site II, Wave 2. Sandra S. Figge. Forthcoming.

Site II, Wave 3

N-1356-HUD. Codebook for the Survey of Residential Buildings, Site II, Wave 3. Patricia Boren. July 1980. 234 pp.

N-1394-HUD. Supplemental Codebook for the Survey of Residential Buildings, Site II, Wave 3. Patricia Boren. June 1980. 129 pp.

N-1408-HUD. Audit of the Survey of Residential Buildings, Site II, Wave 3. Sandra S. Figge. Forthcoming.

Site II, Wave 4

N-1357-HUD. Codebook for the Survey of Residential Buildings, Site II, Wave 4. Patricia Boren, Deborah Wesley. August 1980. 274 pp.

N-1395-HUD. Supplemental Codebook for the Survey of Residential Buildings, Site II, Wave 4. Patricia Boren. August 1980. 145 pp.

N-1409-HUD. Audit of the Survey of Residential Buildings, Site II, Wave 4. Sandra S. Figge. Forthcoming.

Neighborhood Survey

Site I, Baseline

N-1076-HUD. Codebook for the Survey of Neighborhoods, Site I, Baseline. HASE Survey Group. March 1981. (First issued as WN-8811-HUD, June 1977.) 167 pp.

N-1590-HUD. Supplemental Codebook for the Baseline Survey of Neighborhoods, Site I. Carol Hillestad. December 1980. 66 pp.

N-1115-HUD. Audit of the Baseline Neighborhood Survey in Site I. C. Lance Barnett. October 1979. (First issued as WN-9732-HUD, April 1977.) 41 pp.

Site I, Wave 4

N-1361-HUD. Codebook for the Survey of Neighborhoods, Site I, Wave 4. Patricia Boren, Carol Hillestad. March 1980. 207 pp.

N-1282-HUD. Audit of the Neighborhood Survey Site I, Wave 4. Carol E. Hillestad. November 1979. 53 pp.

Site II, Baseline

N-1128-HUD. Codebook for the Survey of Neighborhoods, Site II, Baseline. HASE Survey Group. April 1981. (First issued as WN-9949-HUD, December 1977.) 183 pp.

N-1596-HUD. Supplemental Codebook for the Baseline Survey of Neighborhoods, Site II. Carol Hillestad. December 1980. 38 pp.

N-1113-HUD. Audit of the Baseline Neighborhood Survey in Site II. John E. Bala. October 1979. (First issued as WN-9709-HUD, September 1977.) 55 pp.

Site II, Wave 4

N-1362-HUD. Codebook for the Survey of Neighborhoods, Site II, Wave 4. Patricia Boren, Carol Hillestad. August 1980. 202 pp.

N-1416-HUD. Audit of the Survey of Neighborhoods, Site II, Wave 4. Carol E. Hillestad. August 1980. 48 pp.

Documentation Support

N-1050-HUD. Compensating for Landlord Nonresponse in the Housing Assistance Supply Experiment. Adele R. Palmer. December 1980. (First issued as WN-8268-HUD, June 1973.) 75 pp.

- N-1063-HUD. Baseline Audit Plan. Leonard Chesler and others. February 1981. (First issued as WN-8612-HUD, February 1974.) 143 pp.
- N-1096-HUD. A Plan for Analyzing Nonresponse Bias: Survey of Landlords, Baseline, Site I. C. Peter Rydell, Richard E. Stanton. April 1981. (First issued as WN-9211-HUD, August 1975.) 57 pp.
- N-1131-HUD. HAMISH Update System: Input Form Specifications. Zahava B. Doering, Susan Welt. May 1981. (First issued as WN-10029-HUD, January 1978.) 169 pp.
- N-1132-HUD. Sample Maintenance Office Procedures Manual. Susan Welt. May 1981. (First issued as WN-10039-HUD, January 1979.) 357 pp.
- N-1133-HUD. HAMISH Survey Support System: Technical Description. Zahava B. Doering, Susan Welt. May 1981. (First issued as WN-10057-HUD, May 1978.) 207 pp.
- N-1136-HUD. Using Weights to Estimate Population Parameters from Survey Records. Daniel A. Relles. May 1981. (First issued as WN-10095-HUD, April 1978.) 63 pp.
- N-1138-HUD. Completing the Supply Experiment. HASE Staff. May 1981. (First issued as WN-10223-HUD, June 1978.) 131 pp.

The survey codebooks define each variable, identify the corresponding survey question, and display response distributions. The 67 survey codebooks are of three types. Attitude-module codebooks document data gathered in the landlord and household surveys on respondents' attitudes toward the allowance program. The main-survey codebooks document the data gathered in the rest of the survey instrument. Supplemental codebooks document a set of analytic variables derived from original survey variables and added to the files. Most files are represented by a main-survey and supplemental codebook; most landlord and household survey files are also represented by attitude-module codebooks.[2]

[2] The codebooks reflect file contents accurately for the most part but not in every detail. After codebook publication, some errors were discovered in the data, and the findings of sample accounting necessitated changes in sample sizes. As a result, response distributions published in the codebooks will not necessarily agree

As developed in N-1063 and carried out for the baseline survey files, the survey audit involved the following tasks:

1. A detailed review of fieldwork and interviewer performance.
2. Accounting for the survey sample by explaining adjustments to the HASE panel and determining whether all desired interviews or observations were completed.
3. Accounting for errors, inconsistencies, and missing data, and checking reasons for their occurrence.
4. Assessing potential biases and devising weights so that the records used in analysis collectively represent the sampled population.[3]

Background for the audit procedures in task 1 is given in N-1131, N-1132, and N-1133. N-1132 also provides a detailed description of basic sample accounting procedures. N-1050, N-1096, and N-1136 provide the theoretical underpinnings for task 4.

Wave 2 audits dispensed with task 1 and some of the details pertaining to response consistency in task 3, following the amended audit guidelines in N-1138.[4] The scope of audits for waves 3 and 4 was further reduced so that task 3 consisted of a description of the data-quality checks, minus their results. The conditions under which the later surveys were conducted resembled wave 2 so closely that we judged their data quality to be consistent with that of the wave 2

with those calculated from the corrected files. In most cases the differences are slight. However, the discrepancy between the baseline files and main-survey codebooks (Ns 1074, 1075, 1080, 1104, 1112, and 1126) is considerable because those codebooks apply to the baseline sample, whereas the files (and supplemental codebooks) apply to the smaller baseline HASE panel.

[3] This portion of the audit did not apply to the neighborhood survey, which was addressed to the entire county, not a sample.

[4] The exception is the audit report for the Site II, wave 2 residential building survey, which was addressed to such a small sample that task 3 was confined to a description of error checks.

files.[5] Special audit procedures developed for attitude data are reported separately for the Site II, wave 2 landlord and household files. Otherwise, the audits of attitude data are incorporated in the regular landlord and household survey audit reports.

[5] Weights were not calculated and task 4 was omitted from the following audits for the survey of residential buildings: Site I, wave 3; Site II, waves 2 and 3. Those surveys were administered to a small portion of the HASE sample, which cannot be made to represent the population of interest--all residential buildings in the county.

The first part of the report deals with the general situation of the country and the progress of the work during the year. It is followed by a detailed account of the various projects and the results achieved.

The second part of the report is devoted to a detailed description of the various projects and the results achieved. It is followed by a detailed account of the various projects and the results achieved.

The third part of the report is devoted to a detailed description of the various projects and the results achieved. It is followed by a detailed account of the various projects and the results achieved.

The fourth part of the report is devoted to a detailed description of the various projects and the results achieved. It is followed by a detailed account of the various projects and the results achieved.

The fifth part of the report is devoted to a detailed description of the various projects and the results achieved. It is followed by a detailed account of the various projects and the results achieved.

The sixth part of the report is devoted to a detailed description of the various projects and the results achieved. It is followed by a detailed account of the various projects and the results achieved.

The seventh part of the report is devoted to a detailed description of the various projects and the results achieved. It is followed by a detailed account of the various projects and the results achieved.

The eighth part of the report is devoted to a detailed description of the various projects and the results achieved. It is followed by a detailed account of the various projects and the results achieved.

Appendix A

MODIFICATIONS TO PROTECT RESPONDENT CONFIDENTIALITY

This appendix documents how we altered the values of certain variables on all landlord, household, and residential building survey files to protect respondents from being identified by users of the files.[1] The unmodified survey files contained enough information to readily identify some properties (especially large rental properties) by combining descriptors: location, type of structure, number of dwellings, form of ownership, amount of property taxes, etc. Once a property was identified, it would be easy to identify the owner and occupants and gain access to information they gave in confidence.

To preserve the analytic richness of the data, we modified the minimum number of variables and values. Likewise, the degree of modification was kept to the minimum consistent with respondent protection.

The new values are on the files that were transmitted to DUALabs; the old values are reflected in the response distributions tabulated for each variable in the appropriate codebook. The number of records on each file may also differ from the corresponding codebook total, but that discrepancy is a result of changes due to sample accounting rather than measures to protect respondents.

Depending on the type of data, we made the following modifications:

- Averaging property data to a unit or building level.
- Recoding ranges of particularly sensitive details (such as the number of housing units on the property--e.g., for all 10- to 19-unit properties, citing "10" as the number of units; for all 20- to 29-unit properties, citing "20").

[1] The neighborhood survey files, which do not contain any information that could be linked with persons, required no modification.

- Aggregating detailed data to a more general level.
- Deleting identifier variables that did not lend themselves to any of the first three methods.
- Renumbering BLDG and UNIT identifiers for large properties.[2]

When it was necessary to delete values, we changed them to blanks (header variables only) or replaced them with a new audit code, -33. Only positive values were modified; original audit codes, -1 through -23, remain unchanged.

The landlord survey files required the most modification to disguise the financial information gathered. We averaged all financial data by dividing per-property figures by the total number of units on the property. As a result, the variable definitions and values changed in two ways. Variables originally defined as the amount per property (e.g., cost of electricity or real estate taxes) are now defined as the average amount per unit on the property. Variables originally defined as the number of items per property are changed to proportion of items on the property, expressed as a ratio (.00 - 1.00). For example, number of mobile homes becomes the proportion of the property occupied by mobile homes. In a few instances, values of the latter type validly exceed 1.00, as in the proportion of evicted households, which can exceed the total number of units on a property.

Table A.1 lists the variables modified on the landlord survey files. We do not list modified variables from the previous owner supplement because they are identical to listed variables. The survey codebooks (listed in Sec. V) provide the correspondence between listed variables and their POS counterparts.

Table A.2 lists all variables modified on the household survey files. Where fewer than all records were modified for a certain variable, the conditions that qualify a record for modification are indicated in parentheses after the variable name or in a footnote.

[2] Any numbers that have been resequenced on one file have been similarly resequenced on the others, so that interfile correspondences have been preserved.

For example, taxing unit codes (TU) were deleted only for records representing nonhomeowner housing units (in the TH11 file, only if TYPUNT \neq 1 or 2). Also, only the values indicated in the recoding specifications were changed; for example, if the table shows that values "0-5" were recoded, no values above 5 were modified.

Table A.3 lists all modifications to the eight residential building survey files.

In all tables, variable names cited without file identifiers remain the same on all files.

Table A.1

MODIFICATIONS TO LANDLORD SURVEY FILES

<u>Topic</u>	<u>Variable</u>	<u>How Modified</u>
Geographic identifiers	CBLOCK, CED, CTRACT, NBHDCODE	Changed to blank
Equalization ratio/ taxing unit	EQFACTOR, X39	Changed to -33
Type of ownership	L9	Recorded: 6-8 = 9
Assessed value of land and improve- ments	X40, X41	Recorded: If $X40 > 0$ & $X41 > 0$: $X40 = X40 / (X40 + X41)$ $X41 = X41 / (X40 + X41)$ Else if $X40 > 0$: $X40 = -33$ Else if $X41 > 0$: $X41 = -33$
Number of rooms on property	X38, X74	Divided by total number of residential units on property (unmodified X1)
Number of different types of residen- tial units on property	X2-X6, X34-X36 LL11: C22:1-5, C27:1-2, C37, C46, H1A, H20 LL21: C2, C3, C9:1-5, C27, C30:1-6, C36:1-2, C98, C130, H4, H6, H7, H10, H13, H32 LL12: C44, C45, C47, C51:1-5, C71, C75:1-6, D44, H10, H12, H13, H16, H18, H30, X59-X60 LL22/LL13: C43, C47, C49-C50, C54:1-5, C73, C76:1-6, C81:1-2, D76, H7-H10, H24, K18A, K21, K28, P7-P9, X59-X60, Z65 LL23/LL14/LL24: C43, C47, C49-C50, C54:1-5, C73, C76:1-6, C81:1-2, D76, H7-H10, H24, K18A, K21, K28, P7A, X59-X60, Z65	Divided by total number of residential units on property (unmodified X1)

Table A.1 (cont.)

<u>Topic</u>	<u>Variable</u>	<u>How Modified</u>
Repair expenses	Y93-Y102, Y123-Y132, Y142-Y147 LL11: A13-A14, E4C:1-15, E8, I4, I12, I16 LL21: A15-A16, A19-A20, E11:1-15, E15, I14, I24, I28 LL12: A19, F8:1-15, F13, F14, J15, J25, J28 LL22/LL13/LL23/LL14/LL24: A19, F7:1-15, J5	Divided by total number of residential units on property (unmodified X1)
Management expenses	Y41, Y58-Y70, Y103-Y110, Y135, Y137, Y140-Y141 LL11: D13B:1-6, D14A:1-6, D17:1-6, D20, D24:1-14, D25A:1-14, F51:B1-3, F53:1-3 LL21: D12, D19:1-5, D21:1-5, D24:1-5, D30, D32, D34, D36-D37, D41:1-5, D43:1-5, D45:6-10, D47:6-10, D49:11-13, D51:11-13, F73:1-3B, F75:1-3 LL12: E7, E9, E13, E19:A-C, E21, E26:1-5, E28:1-5, E30:6-10, E32:6-10, E34:11-14, E36:11-14, G85:B1-3 LL22/LL13/LL23/LL14/LL24: E3A, E4A, E13, E15, E18, E22A-C, E26:1-14, E28:1-14, G77B:1-3, G79:1-3, Y133-Y136	Divided by total number of residential units on property (unmodified X1)
Taxes and insurance	T35, Y24, Y31, Y32, Y40 LL11: F37-F39, F43:1-3, F45:1-3 LL21: F51-F54:C, F58:1-3 (if \= 2) F61:1-3, F63, F65, F66 LL12: G58-G60, G61A:A- G64, G68:1-2, G70:1-2, G73, G75, G77, G78 LL22/LL13/LL23/LL14/LL24: G56-G58, G59A-B, G63:1-2, G65:1-2, G68, G70, G72, G73	Divided by total number of residential units on property (unmodified X1)

Table A.1 (cont.)

<u>Topic</u>	<u>Variable</u>	<u>How Modified</u>
Utilities	Y25, Y42, Y49-Y56, Y114-Y121 LL11: D29:A1-5, D29:B1-4, D29:C1-4, D33:A1-2, D33:B1, D33:C1 LL21: D55:1-5A, D55:1-3B, D55:1-3C, D59:1A, D59:2, D62:1-5A, D62:1-5B, D62:1-5C LL12: E40:A1-5, E40:B1-3, E40:C1-3, E44:A1-2, E46:A1-5, E46:B1-5, E46:C1-5 LL22/LL13/LL23/LL14/LL24: E35A:1-7, E35C:1-5, E35D:1-5, E37A:1-3, E37B:1-3, E37C:1-3	Divided by total number of residential units on property (unmodified X1)
Debt service	Y17, Y34, Y35 LL11: F3, F6, F11, F13:1-3, F17:1-3, F22:A1-3, F23:A1-3, F29:1-3, F34:A1-3, F36:1-3 LL21: F4, F8, F12, F15:1-3, F18:1-3, F23:1-3, F31:1-3A, F31:1-3B, F32:1-3A, F38:1-3, F44:1-2A, F44:1-2B, F46:1-2 LL12: G12, G16, G20, G24:1-3, G26:1-3, G29:1-3, G39:A1-3, G39:B1-3, G40:A1-3, G46:1-3, G51:A1-2, G51:B1-2, G53:1-2, G55:1-2 LL22/LL13/LL23/LL14/LL24: G9A (G8A), G13A, G17, G20A, G21A, G24:1-3, G26:1-3, G29:1-3, G39A:1-3, G39B:1-3, G40A:1-3, G46:1-3, G48A, G51A:1-2, G51B:1-2, G53:1-2, G55:1-2	Divided by total number of residential units on property (unmodified X1)

Table A.1 (cont.)

<u>Topic</u>	<u>Variable</u>	<u>How Modified</u>
Property value	X43, X45, X63 LL11: A8-A10, I29 LL21: A9-A12, I41 LL12: A10-A13, J39 LL22/LL13/LL23/LL14/LL24: A12-A15, J16, J19	Divided by total number of residential units on property (unmodified X1)
Value of unpaid labor	LL11: D2, D5, D9, E5:1-15 LL21: D2, D5, D8, E12:1-15 LL12: F9:1-15 LL22/LL13/LL23/LL14/LL24: F8A:1-15, F22, F28, F34, Y111-Y113	Divided by total number of residential units on property (unmodified X1)
Hours of unpaid labor	LL11: D1, D4, D7 (if \= 111) LL21: D1, D4, D7, D10 LL12: F16, F19, F22, F25 (if \= 169) LL22/LL13/LL23/LL14/LL24: F17-F18A, F23-F24A, F29-F30A, Z56-Z58	Divided by total number of residential units on property (unmodified X1)
Number of households that moved out or were evicted	Z63, Z67 LL11: H15, H17 LL21: H27, H29 LL12: H2, H5 LL22/LL13/LL23/LL14/LL24: H3, H5	Divided by total number of residential units on property (unmodified X1)
Income (residential)	T25, Y11-Y12, Y15, Y21-Y22, Y79, Y138 LL11: C11-C13, C17-C18, C39-C41, C45, C48-C50, C54-C56, C58 LL21: C56, C58-C59, C61, C66, C68, C70, C77-C78, C85, C87, C89, C94, C102-C104, C107, C110, C127-C129, C135, C137, Y14 LL12: D5, D7, D8, D10, D14, D16, D18, D25-D26, D32, D34, D36, D40, D49-D51, D54-D57, D72-D74 LL22/LL13/LL23/LL14/LL24: D10, D12-D13, D15, D19, D21, D23, D30-D31, D37, D39, D41, D45, D47, D53-D55, D58-D61, D70, D73-D75, D81, Y14	Divided by total number of residential units on property (unmodified X1)

Table A.1 (cont.)

<u>Topic</u>	<u>Variable</u>	<u>How Modified</u>
Number of commercial units in buildings	LL21: C8:1-5 LL12: C52:1-5 LL22/LL13/LL23/LL14/LL24: C55:1-5	Divided by total number of commercial units on property (unmodified X28)
Income (commercial)	Y13, Y23 LL11: C32-C34 LL21: C73-C74, C119-C120, P17:1 LL12: D21-D22, D66-D67 LL22/LL13/LL23/LL14/LL24: D26-D28, D67-D69	Divided by total number of commercial units on property (unmodified X28)
Number of buildings added or removed	LL12/LL22/LL13/LL23/ LL14/LL24: X61-X62	Divided by total number of residential buildings on property (unmodified X8)
Total number of residential units	T1, X1 LL11: B12, B19 LL21: B20, B27 LL12: B16, B23 LL22/LL13/LL23/LL14/LL24: B7, B12	Recorded: 10-19 = 10 20-29 = 20 30-39 = 30 40-49 = 40 50-99 = 50 100+ = 100
Total number of residential buildings/units on property	T2, X8 LL11: C5 LL21: C5, C26, C45, H2 LL12: C70, C72, H8 LL22/LL13/LL23/LL14/LL24: C52, C70, C71	Recorded: 10-19 = 10 20-99 = 20 100+ = 100
Number of commercial units on property	X28 LL11: C31 LL21: C19, C24-C25 LL12: C57, C62, C69 LL22/LL13/LL23/LL14/LL24: C60, C63, C66	Recorded: 2+ = 2
Number of properties	L36 LL11: B11 LL21: B19, C22, C124 LL12: B15, L5, T41 LL22/LL14/LL24: B6, L5, T41 LL13/LL23: B6	Recorded: 10+ = 10

Table A.1 (cont.)

<u>Topic</u>	<u>Variable</u>	<u>How Modified</u>
Number of employees	LL11: V5 LL21: V29 LL12: V39, D71 LL22/LL13/LL23/LL14/LL24: V33	Recorded: 20+ = 20
Year building built	LL11: C6 LL21: C10:1-5 LL12: C53:1-5* LL22/LL13/LL23/LL14/LL24: C56:1-5	Recorded: 1700-1849 = 1800 1850-1869 = 1850 1870-1879 = 1870 1880-1889 = 1880 1960-1969 = 1960 1970+ = 1970
Age of building	LL21/LL12/LL22/LL13/ LL23/LL14/LL24: T49	Recorded: 0-9 = 5 10-19 = 10 20-29 = 20 30-39 = 30 90-99 = 90 100+ = 100
Type of ownership	LL21: V22 LL12: V31 LL22/LL13/LL23/LL14/LL24: V26	Recorded: 5-9 = 88
Number of new buildings and units	LL12/LL22/LL13/LL23/LL14: C27-C29	Recorded: If C27 = 1: C27 = 2 and C28 = -11 and C29 = -11
Activities of firm that owns property	LL11: B16:N	Recorded: 14-34 = 88
Month of property transfer	LL11: A2 LL21: V8:M, A2:M, A4 LL12: V10:M, A2:M, A5:M LL22/LL13/LL23/LL14/LL24: V10:MO, V13:MO, A5:MO, A6:MO	Recorded: 1-3 = 1 4-6 = 2 7-9 = 3 10-12 = 4

*These variables do not contain the left-most digit of the year (e.g., 1975 appears as 975).

Table A.1 (cont.)

<u>Topic</u>	<u>Variable</u>	<u>How Modified</u>
Date of property transfer	LL21: V8:D LL12: V10:D, C2:M LL22/LL13/LL23/LL24: V10:DA, V13:DA LL14: V10:DA, V13:DA, C4	Changed to -33
Housing assistance program	LL21: C126 LL22/LL23/LL24: D72	Changed to -33

Table A.2

MODIFICATIONS TO HOUSEHOLD SURVEY FILES

<u>Topic</u>	<u>Variable</u>	<u>How Modified</u>
Geographic identifiers	CBLOCK, CED, CTRACT, NBHDCODE	Changed to blank
Number of different types of buildings on property	NRESBLDG, NMXBlds, NNRBLDS	Divided by total number of buildings on property (unmodified TOTNBLDG)
Total number of buildings on property	TOTNBLDG	Recoded: 10-19 = 10 20-99 = 20 100+ = 100
Number of different types of residential units on property	NTUNTS, NMHUNTS, NEUNTS, NRUNTS, NLUNTS	Divided by total number of residential units on property (unmodified RESUNIT)
Total number of residential units on property	RESUNIT	Recoded: 10-19 = 10 20-29 = 20 30-39 = 30 40-49 = 40 50-99 = 50 100+ = 100
Total number of commercial units on property	DRNCOM	Recoded: 2+ = 2
Total number of residential units in building	NBRSUNT	Recoded: 5-9 = 5 10-19 = 10 20-49 = 20 50+ = 50
Identifier for sampled building on property	BLDG	Identifiers for all sampled buildings on each property renumbered in sequence
Identifier for sampled unit on property	UNIT	Identifiers for all sampled units on each property renumbered in sequence

Table A.2 (cont.)

<u>Topic</u>	<u>Variable</u>	<u>How Modified</u>
Property acreage	TH11: C125T, C126T, C138M, C139M TH21: CT64-CT65, CH90- CH91, CM137-CM138 TH12: CT75-CT76, CH117- CH118, CM146-CM147, CL84-CL85 TH22/TH13: CT72-CT73, CH123-CH124, CM151- CM152, CL84-CL85 TH23/TH14/TH24: CH5, CH15, CM4	Recorded: 11-49 = 11 50-99 = 50 100+ = 100
Homeowner taxes	ESTRTAX, HY24 TH11: C80T TH21: CH54:A-B TH12: CH69:A-B TH22/TH13: CH77:A-B TH23/TH14/TH24: CH78:A-B	Recorded: 10-19 = 10 20-29 = 20 30-39 = 30 (by 10's until highest value recorded)
Day family member born	TH11: G2A:D, G6A:D1-8 TH21: G10A:D3-14 TH12: G11A:D3-14 TH22/TH13: G12:D1-2	Changed to -33
Month (unit bought or sold; family member born; moved in)	W5 TH11: C30MT, C31:MT, C34:M1-3M, MOVEMO, MOVEINMM, MONTHTH, DATEMM, RETURNM, RETURNMM, G2A:M, G6A:M1-8 TH21: CH3A:M, CH4:M, CM34:1-3M, D5A:M, D7:M, G10A:M3-14 TH12: CH4:M, CH5:M, CM34:M1-3, DL7:M, DL9:M, G11A:M3-14 TH22/TH13: A34:M, A36:M, A46:M, A48:M, A58:M, A59:M, CH17:M, CH18:M, CM34:M1-3, D33A:M, D35:M, G12:M1-2, VL17M TH23/TH14/TH24: A30:M, A36:M, CH19:MO, CH20:MO, CM35M:1-3, D35A:M, D37:M	Recorded: 1-3 = 1 4-6 = 2 7-9 = 3 10-12 = 4

Table A.2 (cont.)

<u>Topic</u>	<u>Variable</u>	<u>How Modified</u>
Year building built	TH22/TH13: CH106	Recorded: 1700-1849 = 1800 1850-1869 = 1850 1870-1879 = 1870 1880-1889 = 1880 . 1960-1969 = 1960 1970+ = 1970
	TH23/TH14/TH24: CH74	
Neighborhood of previous residence	TH11: FSTNC (if D48A = 3 or D49 = 1)	Changed to -33 if previous and current neighborhoods the same
	TH21: D35:B1 (if D58 = 3 or D59 = 1)	
Improvements assessed value	TH12: DL45B1 (if DL70 = 3 or DL71 = 1)	For homeowners, recorded:*
	TH22/TH13: D68B:1 (if D101 = 3 or D102 = 1)	
	TH23/TH14/TH24: D71B:1 (if D104 = 3 or D105 = 1)	
	SIMPR	
		100-199 = 100 200-299 = 200 300-399 = 300 . 900-999 = 900 1000-1999 = 1000 2000-2999 = 2000 3000-3999 = 3000 . 9000-9999 = 9000 10000-19999 = 10000 20000+ = 20000
		For nonhomeowners, changed to -33

*Homeowners are identified as follows: TH11 (if TYPUNT = 1 or 2); TH21 (if U3:22 = 3 and TYPUNT \= 2); TH12 (if U3:2B = 2); TH22/TH13 (if U3:2 = 3 and CH74 \= 1); TH23/TH14/TH24 (if U4:2 = 3 and CH75 \= 1). Nonhomeowners are all others.

Table A.2 (cont.)

<u>Topic</u>	<u>Variable</u>	<u>How Modified</u>
Land assessed value	SLAND	For homeowners, recoded:*
		100-199 = 100
		200-299 = 200
		300-399 = 300
		.
		900-999 = 900
		1000-2499 = 1000
		2500-4999 = 2500
		5000-9999 = 5000
		10000-19999 = 10000
20000+ = 20000		
		For nonhomeowners, changed to -33
Net tax due	NETTAX	For homeowners, recoded:*
		10-19 = 10
		20-29 = 20
		30-39 = 30
		(by 10's until highest value recoded)
		For nonhomeowners, changed to -33
Taxing unit	TU	Changed to -33 for nonhomeowners*
Aggregated neighborhood	TH21/TH22/TH23/TH24: AGGNBH	Changed to -33 for nonhomeowners*

*Homeowners are identified as follows: TH11 (if TYPUNT = 1 or 2); TH21 (if U3:22 = 3 and TYPUNT != 2); TH12 (if U3:2B = 2); TH22/TH13 (if U3:2 = 3 and CH74 != 1); TH23/TH14/TH24 (if U4:2 = 3 and CH75 != 1). Nonhomeowners are all others.

Table A.3

MODIFICATIONS TO RESIDENTIAL BUILDING SURVEY FILES

<u>Topic</u>	<u>Variable</u>	<u>How Modified</u>
Geographic identifiers	CBLOCK, CED, CTRACT, NBHDCODE	Changed to blank
City	RB11: CITY	Changed to -33
Number of housing units in building	RB11: R16:1, 17	Recorded: 10-19 = 10 20-29 = 20 30-39 = 30 40-49 = 40 50+ = 50
Identifier for sampled building on property	BLDG	Identifiers for all sampled buildings on each property renumbered in sequence

Appendix B
TOPICAL INDEX OF VARIABLES

The five HASE surveys asked thousands of questions about diverse subjects. Besides the primary survey variables yielded by the survey questions, the data base contains hundreds of analytic variables derived from them. Topically related variables are not necessarily clustered in the same file or in corresponding locations of different files. By arranging the variables from all surveys in main research topics and related subtopics, this index enables analysts to determine quickly whether the HASE data base contains the information they are seeking and where it is found.

COMPOSITION

The index is divided into 18 main research topics--subjects under which an analyst might first look for information. Main topics are followed by a list of subtopics arranged alphabetically. To the right of each subtopic is a list of all pertinent HASE variables. The variable names are those on the Site II, wave 2 (II:2) files.[1] The II:2 surveys marked the midpoint of the experiment, and their instruments have most in common with the instruments of previous and later waves. The variables for each topic are grouped within parentheses by the type of codebook in which they are documented, indicated by the following abbreviations:

<u>Survey</u>	Main <u>Survey</u>	<u>Codebook Type</u>	
		<u>Supplemental</u>	Attitude <u>Module</u>
Landlord	L	LX	LA
Household	T	TX	TA
Residential building	R	RX	--
Neighborhood[2]	N	NX	--

[1] For the neighborhood surveys, which were administered only at waves 1 and 4, the NS11 and NO11 variable names are given. Appendix C, "Cross-Wave Indexes of Survey Variables," identifies the variables on other files that correspond to the representative II:2 (NS11, NO11) variables listed here.

[2] The variables from both neighborhood surveys--local sources and street observation--are documented in the same codebooks.

For example, the six variables associated with the building's age are found in three codebooks, the landlord and household main-survey codebooks and the landlord supplemental codebook. The index entry reads:

BUILDING CHARACTERISTICS

Age	(L: A5, C56) (LX: T49)
	(T: CH17, CH18, CH106)

To save space, we abbreviate variable names where appropriate. For example, landlord survey variable A7 has nine parts--A7A through A7I. Since all parts pertain to the reason the landlord acquired the property, we simply list A7 for that topic, not the nine parts separately. Of course, if all variable parts do not pertain to the same topic, the specific names are listed.

Some specific comments and cautions are in order:

- The first topic, ADMINISTRATIVE VARIABLES, consists of variables that do not fit under substantive topics but define analytic samples, track sample elements, account for survey outcomes, or pertain to supplementary forms.
- The validation variables on the residential building survey file are also listed under appropriate substantive topics. Validations for that survey yielded useful data because they were essentially reobservations, not primarily administrative checks.
- Variables from the landlord survey's previous owner supplement and neighborhood street observation survey's validations also contain useful data but are not listed because they are identical to listed variables, preceded by P or V. Therefore, the user should be aware that every landlord survey variable listed here that begins with D, E, F, and G has a counterpart on the file beginning with PD, PE, PF, and PG. Likewise, every neighborhood survey variable beginning with S0 has a corresponding VSO variable on the file.

USE OF THE INDEX

The following steps outline the appropriate use of the index.

1. Scan the topical index to determine reference variables of interest. The main topics are those printed in capital letters at the extreme left. Main topics appear in alphabetical order:

ADMINISTRATIVE VARIABLES	NEIGHBORHOOD CHARACTERISTICS
ALLOWANCE PROGRAM	PERSONAL CHARACTERISTICS
BUILDING CHARACTERISTICS	PROPERTY CHARACTERISTICS
DEBT SERVICE	RENT
EXPENSES	REPAIRS AND CAPITAL IMPROVEMENTS
HOUSING SUBSIDIES	RESIDENCY HISTORY
INCOME AND ASSETS	TAXES
INSURANCE	UNIT CHARACTERISTICS
MANAGEMENT OF RENTAL PROPERTY	UTILITIES

Many topics are interrelated, so look under other possible entries if the first one consulted does not yield the desired information. We have cross-referenced liberally but have tried to preserve the specificity of the topics to avoid unwieldy lists. For example, although properties contain buildings and units, the subtopics under PROPERTY CHARACTERISTICS are limited to property-level features, and the features of the other two levels are cited under BUILDING CHARACTERISTICS and UNIT CHARACTERISTICS, respectively.

2. Verify precise variable definitions by consulting the appropriate codebook. The topics may only give a general idea of content.
3. To determine whether longitudinal data are available, or to find the same information for a year other than the representative year, consult Appendix C for the variables of interest.

ADMINISTRATIVE VARIABLES

Accounting variables:

Dummy record indicator	(LX: DUMREC) (TX: DUMREC) (RX: DUMREC)
Filler for correct record alignment	(LX: FILL001) (TX: FILL001) (RX: FILL001)
Final status code	(L: U1FS) (LX: FSDISC, FSCCAT, POSCAT, T5) (T: U1FS) (TX: FSDISC, THSTAT, FSCCAT) (R: UFSC) (RX: SRBSTA, FSDISC, FSCCAT) (N: NSTAT)
Panel status of property or unit	(LX: PANELS) (TX: UCOMP, USTAT) (RX: RPAN, CPAN, PERMPN, BSTAT)
Record documented in codebook	(LX: CODEBK) (TX: CODEBK) (RX: CODEBK)
Updated identifier	(LX: IDUPDT) (TX: IDUPDT) (RX: IDUPDT)

Address verification	(L: V2-V5, V18-V20) (R: B1, VLB1)
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Contact attempts:

Completion date	(L: UCD:MO-DY) (T: UCDM-Y) (R: U1DATE, U2DATE) (N: NCOMM-Y)
Date and time of contact	(L: UMO-UDAY, UBHR-UBAP) (T: U:A-C) (R: UA-B)
Forms and modules administered	(L: U2A-G) (T: U2:1-8, U3:1-5) (R: UCONT:1-5)
Number of attempts	(L: UAN) (T: UAT) (R: UA1)
Result	(L: UD-E) (T: U:E-G) (R: UE-F)
Type--personal or telephone	(L: UBTP) (T: U:DPT) (R: UC-D)

Data indicators:

Months data cover	(L: D7) (LX: INDPY, MCOVREP, MNTHSCOV, Z68) (T: CH75Z) (TX: INDPY, MNTHSCOV, MCOVREP)
Source of data	(LX: T46, INDREG, INDPOS, INDPOSRI) (TX: INDWAVE)

Identifiers:

Attitude module respondent	(LA: ATTID)
Building	(TX: BLDG) (RX: BLDG)
Designated respondent to landlord survey	(LX: DRID) (TX: DRID) (RX: DRID)
File name	(LX: FILENAME) (TX: FILENAME) (RX: FILENAME) (NX: FILENAME)
Interviewer/observer	(L: UID1-3) (T: UID1-3) (R: UID:1-2) (N: NDBVR, NRCDR)
Neighborhood	(LX: NBHDCODE) (TX: NBHDCODE) (RX: NBHDCODE) (NX: NBHDCODE)
Owner of record	(LX: ORID) (LA: IORID1-10) (TX: ORID) (RX: ORID)
Parent record	(LX: PARATP) (RX: PATP, PBLDG, PID)
Property	(LX: ATP) (TX: ATP) (RX: ATP)

ADMINISTRATIVE VARIABLES (cont.)

Identifiers (cont.)

Respondent (LA: BKID) (TX: HH1ID, HH2ID,
INFSUMM, INFSUMF)

Site and wave (LX: SITEWAVE) (TX: SITEWAVE)
(RX: SITEWAVE) (NX: SITEWAVE)

Unit (TX: UNIT)

Interview/observation information:

Additional building on same property observed (R: B89)

Feasibility of off-property observation (R: U1-U5)

Module administered for another property or building (L: LSTAT:D, LSTAT:B, LSTAT:I,
B1, I1, K1) (R: ASTAT:PS)

Module completion status (L: ASTAT, BSTAT, CSTAT, DSTAT,
ESTAT, FSTAT, GSTAT, HSTAT,
ISTAT, JSTAT, KSTAT)
(T: A75, BTSTAT, BHSTAT, BMSTAT,
BLSTAT, CTSTAT, CHSTAT,
CMSTAT, DSTAT, ESTAT, FSTAT,
GSTAT, HSTAT)
(R: ASTAT:A, BSTAT:B) (RX: MODB)

Module respondent status (T: A75, BT103-BT105A, BH103-
BH105A, BM103-BM105A, BL103-
BL105:A, CT75, CH126, CM154,
CL87, D139, G33, H99-H101A)

Observer contact with building resident (R: B79-B81, VLB21-VLB23)

Observation conducted on/off property (R: B88, VLB29)

Time began and ended (L: V1, V17, V63, A3, A20, B3,
B39, C2, C94, D2, D84, E2,
E42, F2, F37, G2, G83, H2,
H31, I3, I13, J2, J29, K3,
K51, P3)
(T: A15, A74, BT1, BT106, BH1,
BH106, BM1, BM106, BLHRBG-
BLAMP, BLHREN-BLAPEN, CT1,
CT74, CH1, CH125, CM1, CM153,
CLHRBG-CLAPBG, CLHREN-CLAPEN,
D3, D27, D138, E2, E37, F2,
F37, G1, G32, H1, H98)
(R: AHRBG-AAPBG, AHREN-AAPEN,
BHRBG-BAPBG, BHREN-BAPEN)

Respondent information:

Name verified (T: A1-A13:B, A29, A41, A53)

New respondent/prior wave respondent (L: A1, B18, B31, B35, G3)
(T: A13:A-A14, A28:D, A65:A,
A68, BT2, BH2, BM2, BL2,
CH2, D1-D2B, E1, F1)

ADMINISTRATIVE VARIABLES (cont.)

Sample-selection indicators:

Attitude-complete	(LA: K51X, INDECENT, INDIORBJ, INDDRBJ, INDLORD)
Debt service-complete	(LX: INDDBTC) (TX: INDDBTC)
Field-complete	(LX: INDFC) (TX: INDFC) (RX: RECSTA)
Income and expense-complete	(LX: INDREFC) (TX: INDEXPC, INDYEXPC, YCMPLT)
Insurance-complete	(TX: INDINSC)
Property value-complete	(TX: INDVALC)
Real estate tax-complete	(TX: INDTAXC)
Repairs and additions-complete	(TX: INDREPC, INDRSC)
Utility-complete	(LX: T47, T48) (TX: INDUTILC)

Sampling strata:

Panel selection stratum	(LX: PSS) (TX: PSS)
Panel stratum	(LX: STRATUM) (TX: STRATUM) (RX: FINSTR)
Revised panel stratum	(LX: REVPS) (TX: REVPS)

Supplementary data:

Previous owner supplement	(L: P1-PG84)
Refusal or breakoff form	(L: ROU-R22, RN1-RN2) (T: ROU1-R47, N1-N3) (R: VLB31-VLB32, RREF1-R20)
Vacancy report	(T: V1-V16)
Validation form	(L: VLSM-VL12) (T: VLIIDA-VL26) (R: VLIID-VLBAPEN) (N: VNBHDCOD-VNCOMY) (NX: VALIDATE, VALIDATB, INCONFLG)

Weights:

Attitude-complete	(LA: WPATT, WLATT)
Field-complete	(LX: FSCWT) (TX: FSCWT)
Household-complete	(TX: HCPWT)
Income-complete	(TX: YCPWT)

ALLOWANCE PROGRAM

Accepted/not accepted in program	(LA: K19, K22) (TA: H45, H55-H56)
Moved to acceptable unit	(TA: H41E, H42)
Number of unacceptable units on property	(LA: K21)
Opinion about fairness of decision	(LA: K26) (TA: H41A, H46, H57)
Previous unit unacceptable	(TA: H41-H41E)
Repaired unit acceptable	(LA: K23-K25) (TA: H47-H49, H50-H53A)
Applied to program	(LA: K16, K33) (TA: H17-H18A, H19, H21)
Why did not apply	(TA: H18B, H19A, H20)
Would reapply	(TA: H67)

ALLOWANCE PROGRAM (cont.)

Attitudes toward:	
Checking on income	(TA: H16, H30)
Housing assistance from the government	(LA: K45) (TA: H93)
HAO's efficiency	(LA: K37-K38) (TA: H78-H79A, H86, H87)
National program	(LA: K39) (TA: H89)
Tenants who receive payments	(LA: K29-K29A)
Changes desired	(LA: K35-K36) (TA: H81-H82)
Effects on:	
County	(TA: H13-H14A)
Household	(TA: H9-H10A)
Landlord's property management	(LA: K10-K11A)
Neighborhood/area	(LA: K12-K14A) (TA: H11-H12A)
Other benefits received	(TA: H75-H75A)
Eligibility	(TA: H20, H24, H27, H31)
Feelings about being ineligible	(TA: H26, H32)
Plans to repair unit or move to be eligible	(TA: H58, H59)
Why not eligible	(TA: H20A-B, H25-H25A, H31A-B)
Enrollment:	
Interviewed	(TA: H22, H28)
Participation agreement signed	(TA: H33, H34)
Why decided not to participate	(TA: H23, H24, H34A)
Why not interviewed	(TA: H22A-B)
Why no longer enrolled	(TA: H62, H63)
Evaluation of unit	
Opinion of fairness of evaluation	(LA: K18) (TA: H42-H43) (LA: K26) (TA: H41A, H46, H57)
Number of evaluated units on property	(LA: K18A, K20) (LX: Z65)
Number of evaluations	(TA: H44, H54A)
Previous unit evaluated	(TA: H37, H39-H40)
Reevaluated	(TA: H54)
Knowledge of program	
Attended information sessions	(LA: K4-K8) (TA: H2-H7) (TA: H35-H35B)
Knows enrollees	(LA: K31-K32) (TA: H83-H84)
Understanding of eligibility requirements	(TA: H36-H38)
Lease, objects to signing	(LA: K30)
Opinion of how program is funded	(TA: H88)
Opinion of program	(LA: K9-K9A) (TA: H8-H8A)

ALLOWANCE PROGRAM (cont.)

Problems:

Changes to payments (TA: H69, H69A)
 Finding adequate housing (T: D48:A, D48:C)
 Getting repairs done by land- (TA: H53-H53A)
 lord or manager
 Meeting rent/mortgage payments (TA: H70)
 while enrolled

Receiving payments (TA: H60)
 Amount (TA: H73, H76, H77)
 Changes to amount (TA: H68-H69A, H74)
 Currently (LA: K17, K27) (LX: Z64)
 (TA: H61, H72)
 Date payments began/ended (TA: H71, H72A)
 Ever (TA: H60A)
 Number of units on property (LA: K28)
 whose tenants receive
 payments
 Why not receiving payments (LA: K17A) (TA: H60B, H61A)

Satisfaction with program (LA: K34) (TA: H80)

Termination from program:
 Amount of last payment (TA: H73)
 Client/HAO decision (TA: H64-H66)
 Date payments stopped (TA: H72A)
 Reason no longer enrolled (TA: H62-H63)

Who benefited from program (LA: K15-K15A) (TA: H15-H15A)
 besides recipient

BUILDING CHARACTERISTICS

Age (L: A5, C56) (LX: T49)
 (T: CH17, CH18, CH106)

Changes to building:
 Fewer units (L: C14, C16, C36-C38) (LX: X60)
 More units (L: C24, C26, C29-C31) (LX: X59)
 Subdivided units indicator (LX: DS42)

Condemned or fire-damaged (R: B2, VLB2)

Condition (T: BT44-BT44A, BH44-BH44A,
 BM44-BM44A, BL44-BL44A)

Constructed by owner/moved to (L: A4) (T: CH16)
 property

Cost to improve building (L: J5)

Distance from street (R: B12, U2)

BUILDING CHARACTERISTICS (cont.)

Elevation from street	(R: B13)
Exterior condition	(R: B40, VLB14) (RX: EA10)
Balconies	(R: B38, B39) (RX: RBALCNY, PBALCNY, BALCNY)
Chimneys, flues, and vents	(R: B33) (RX: RCHIMNY, PCHIMNY, CHIMNY)
Doors:	
Permanent	(R: B25) (RX: RPERMDR, PPERMDR, PERMDR)
Screened	(R: B27) (RX: RSCRNDR, PSCRNDR, SCRNDR)
Storm	(R: B26) (RX: RSTRMDR, PSTRMDR, STRMDR)
Fire escapes	(R: B20-B21)
Foundation	(R: B19)
Gutters and down spouts	(R: B32) (RX: RGUTTRS, PGUTTRS, GUTTRS)
Locks	(R: B77-B78)
Patios	(R: B41)
Porches	(R: B34-B37) (RX: RPORCH, PPORCH, PORCH, RCLNPOR, PCLNPOR, CLNPOR, EA11)
Roof	(R: B28-B31, VLB13) (RX: RROOF, PROOF, ROOF, EA5, RFMAT, RFTYPE, VRFTYPE)
Stairways	(R: B58) (RX: REXSTRWY, PEXSTRWY, EXSTRWY)
Walls	(R: B16-B18, VLB10-VLB12) (RX: REXTWAL, PEXTWAL, EXTWAL, RVEXTWAL, PVEXTWAL, VEXTWAL, EA6, EXTWLMAT, VXWLMAT, ES6, ES9, WOODCOMP)
Windows:	
Permanent	(R: B22) (RX: REXTWNDW, PEXTWNDW, EXTWNDW, EA7)
Screened	(R: B24) (RX: RSCRNWDW, PSCRNWDW, SCRNWDW)
Storm	(R: B23) (RX: RSTRMWDW, PSTRMWDW, STRMWDW, EA8)
Heating system	(L: E29-E31)
Identifier	(TX: BLDG) (RX: BLDG)
Interior public areas, characteristics and condition	(R: B70, B74, VLB17, VLB20)
Accessibility	(R: B71, VLB18)
Banisters	(R: B72:8) (RX: RBANSTR, PBANSTR, BANSTR)
Ceilings	(R: B72:5) (RX: RCEILNG, PCEILNG, CEILNG)
Cleanliness	(R: B73)

BUILDING CHARACTERISTICS (cont.)

Interior public areas (cont.)

Doors	(R: B72:3) (RX: RINTDOR, PINTDOR, INTDOR)
Elevator	(R: B72:9) (RX: RELEVTR, PELEVTR, ELEVTR)
Fire alarms and extinguishers	(R: B75-B76)
Floors	(R: B72:2, VLB19:2) (RX: RFLOOR, PFLOOR, FLOOR, RVFLOOR, PVFLOOR, VFLOOR)
Lighting fixtures	(R: B72:6) (RX: RLING, PLING, LING)
Mailboxes	(R: B72:10) (RX: RMAILBX, PMAILBX, MAILBX)
Stairways	(R: B72:7) (RX: RINSTRWY, PINSTRWY, INSTRWY)
Walls	(R: B72:1, VLB19:1) (RX: RINTWAL, PINTWAL, INTWAL, RVINTWAL, PVINTWAL, VINTWAL)
Windows and skylights	(R: B72:4) (RX: RINTWNDW, PINTWNDW, INTWNDW)
Number of units in building	(L: D8) (R: B7, VLB6)
Commercial	(R: B10-B11)
Residential	(TX: NBR Sunt)
Observable sides of building	(R: B14, U3, VLB8)
Signs of rats, termites, pests	(T: BT43, BH43, BM43, BL43)
Stories, number of	(R: B15, VLB9)
Type	(R: B6, VLB5)
Residential, commercial	(TX: BLDGTYPE) (R: B8, B9, VLB7, VLB16) (RX: BTYPE)
Single-unit, multiunit	(T: BT46, BT87, BH46, BM87, BM90A, BL46, BL87, CT39, CL46)
	(R: B69)
Under construction	(R: B3)
Vacancy status (e.g., some units rented, all units occupied)	(R: A9, B4, B5, VLB3, VLB4)

DEBT SERVICE

Amortization during year	(LX: Y35) (TX: HY35)
Balloon payment	(L: G45-G46) (T: CH60-CH61, CM80-CM81)
Behind in payments	(T: CH62-CH63, CM82-CM83)
Completeness indicator	(LX: INDBTC) (TX: INDBTC)

DEBT SERVICE (cont.)

Debt financing type	(TX: W2)
Debt status (property owned, mortgaged, on land contract)	(L: G3A, G10, G11) (LX: Z53) (T: CH6, CH27, CM42, CM54) (TX: INDMTGE, INDLCONT, INDCPUR)
Equity	(TX: HX53, HY28A)
In effect for whole/part year	(L: G7)
Interest paid during year	(LX: Y34) (TX: HY34)
Land contracts:	
Amount owed	(L: G9, G21)
Changes	(L: G8)
Date of first payment	(L: G14) (T: CH31, CM45)
Down payment/full price	(L: G13) (T: CH29, CM43) (TX: W8)
Interest rate	(L: G16) (T: CH32, CM46)
Monthly payment	(L: G17-G19) (T: CH34-CH36, CM48-CM50)
Other property covered	(L: G20) (T: CH37, CM51)
Purpose (to buy, improve property)	(TX: W3)
Term	(L: G15) (T: CH33, CM47)
Total amount	(L: G13A, G20A) (T: CH30, CH37A, CM44, CM52) (TX: W7)
Lender	(L: G43-G44) (T: CH58-CH59, CM78-CM79)
Loans with property as security	(L: G4, G5, G12) (T: CH7, CH10, CH28, CM55)
Mortgages and loans:	
Amount owed	(L: G9, G40) (T: CH55, CM75) (TX: CURDEBT)
Changes	(L: G8) (T: CH9)
Amount increase	(L: G27-G29) (T: CH45-CH47, CM65-CM67) (TX: W10)
Interest rate change	(L: G36-G37) (T: CH52, CM72)
Term extension	(L: G32-G34) (T: CH48-CH50, CM68-CM70)
Date of first payment	(L: G30) (T: CH43, CM63)
Down payment	(TX: W8)
FHA insured/VA guaranteed	(L: G41) (T: CH56, CM76)
Interest rate:	
Present	(L: G35) (T: CH51, CM71) (TX: W11)
Original	(L: G38) (T: CH53, CM73)
Monthly payment	(L: G39, G48) (T: CH54, CM74)
Mortgage/loan indicators	(L: G23) (T: CH39, CM58) (TX: W2)
Number	(L: G6, G22, G47) (T: CH8, CH38, CM57)

DEBT SERVICE (cont.)

Mortgages and loans (cont.)

Original principal	(L: G24-G26) (T: CH40-CH42, CM59-CM62) (TX: W7)
Purpose (to buy, improve property)	(L: G42) (T: CH57, CM77) (TX: W3)
Term	(L: G31) (LX: Z44, Z45) (T: CH44, CM64) (TX: W12)
Principal of debts acquired during year	(LX: Y17) (TX: HY17)
Ratio of debt to acquisition cost	(TX: W9)
Ratio of nonfarm debt to total property debt	(LX: MORTADJ) (TX: MORTADJ)
Reliability of landlord information	(L: G81, G82A-D)
Terminated debts:	
Balloon payment	(L: G52-G53) (T: CH70-CH71, CM91-CM92)
Date of last payment	(L: G50) (T: CH66, CM87)
Monthly payment	(L: G51, G54-G55) (T: CH67-CH69, CM86, CM88-CM90)
Number	(L: G49) (T: CH64, CM84)
Type of debt (mortgage, loan, land contract)	(T: CH65, CM85)

EXPENSES

(see also INSURANCE, MANAGEMENT OF RENTAL PROPERTY, RENT, REPAIRS
AND IMPROVEMENTS, TAXES, and UTILITIES)

Alimony	(T: G19)
Child care	(T: G18)
Completeness indicators	(LX: INDREFC) (TX: INDEXPC, INDYEXPC)
Food stamps	(T: G27-G27A)
Incidental	(T: CT66-CT69, CH117-CH120, CM145-CM148, CL78-CL81)
Meals (for lodgers)	(T: CL11-CL16, CL23-CL24:B, CL66-CL67)
Medical/nursing care	(T: G16, G28)
Parking	(T: CT28-CT30, CM30-CM32, CL35-CL37)

HOUSING SUBSIDIES

Amount	(L: D73-D75) (LX: Y14) (T: CH73)
Frequency of eligibility review	(L: D77)
Number of subsidized units on property	(L: D76)
Previous unit subsidized	(T: D72)
Program granting subsidy	(L: D71, D72) (T: CT5, CH72)
Reliability of landlord information	(L: D83H)

INCOME AND ASSETS

Assets	(T: G20-G22)
Completeness indicators	(TX: INDYEXPC, YCMPLT)
Income received:	
Aid to families with dependent children (AFDC)	(T: G24B, G25B) (TX: ESTADC)
Alimony and child support	(T: G24J, G25J) (TX: ESTALI)
Business or profession	(T: G24R, G25R) (TX: ESTSEY)
Cash contribution	(T: G24L, G25L) (TX: ESTCASH)
Commissions, bonuses, tips	(T: G24Q, G25Q) (TX: ESTTIP)
Dividends	(T: G24O, G25O) (TX: ESTDIV)
Education stipend	(T: G24K, G25K) (TX: ESTEDUC)
Food stamps	(T: G27B)
General assistance	(T: G24D, G25D) (TX: ESTGENA)
Farm	(L: C92, D9B, D29-D31, P13)
Federal housing subsidy	(T: CH73)
Housing allowance	(T: CT5, CH72, H60-H61, H73)
Insurance claim	(T: CT62, CH113, CM141, CL74)
Interest	(T: G24N, G25N) (TX: ESTINT)
Other public assistance	(T: G24E, G25E) (TX: ESTPUBA)
Rents and royalties (e.g., from lodgers; for landlord rental income see RENT)	(T: G23, G24M, G25M) (TX: ESTRENT)
Temporary rent reduction	(T: CT53-CT55, CM124-CM126, CL60-CL65)
Regular rent reduction (including cheaper meals)	(T: CT12-CT17, CM11-CM18, CL17-CL24:B, CL66-CL67)
Retirement pension	(T: G24I, G25I) (TX: ESTRET)
Social security	(T: G24A, G25A) (TX: ESTSS)
Supplementary security income	(T: G24C, G25C) (TX: ESTSSI)
Unemployment compensation	(T: G24F, G25F) (TX: ESTUN)
Veteran disability compensation	(T: G24H, G25H) (TX: ESTVET)
Wages and salaries	(T: E14-E15, E28-E29, E36, F14-F15, F28-F29, F36, G24P, G25P) (TX: ESTWAGE)
Workman's compensation	(T: G24G, G25G) (TX: ESTWMC)

INCOME AND ASSETS (cont.)

Income received (cont.)
 Other source (T: G24S, G25S, G26) (TX: ESTOTH,
 YAGG)
 Total from all sources (TX: THINOP, PTHI, THI)
 Interviewer estimate of household
 income (TA: H104)
 Missing income (TX: YMISS, YMIS2)

INSURANCE

Arranged by professional manage- (L: E5F)
 ment firm
 Cancellation/problems keeping (L: G74-G75)
 Cost of self-insurance (LX: Y32) (TX: HY32)
 Coverage: fire, theft, etc. (L: G62, G67) (T: CT58, CH109,
 CM137, CL70)
 Included in mortgage/loan/land (L: G18, G39D, G48C, G51D)
 contract payment (T: CH35, CH54D, CH55D, CH67D,
 CM49, CM74D, CM75D, CM88D)
 Income received from claim (L: G71-G72) (T: CT62, CH113,
 CM141, CL74)
 Insurance indicators (L: G60) (T: CT56, CH107,
 CM135, CL68) (TX: INDINS,
 INDINSC, INDESTIN)
 Number of policies (L: G61, G66) (T: CT57, CH108,
 CM136, CL69)
 Paid for housing repair/improvement (L: G73) (T: CT63-CT65,
 CH114-CH116, CM142-CM144,
 CL75-CL77)
 Premium cost (L: G63-G65, G68-G70)
 (LX: T35, Y31) (T: CT59-CT61,
 CH110-CH112, CM138-CM140,
 CL71-CL73) (TX: HY31)
 Reliability of landlord information (L: G81, G82F-G)

MANAGEMENT OF RENTAL PROPERTY

Allowance program effects on landlord's property management	(LA: K10-K11A)
Employees of landlord	(L: E6)
Cost (wages)	(L: E13-E15, E22A-C) (LX: Y67, Y105, Y107)
Live on property	(L: E16)
Number in firm that owns property	(L: V32-V34)
Number for property	(L: E7, E8, E23)
Performed repair/improvement	(L: F10)
Position or title	(L: E9, E10, E20-E21, E24)
Reliability of landlord information	(L: E40, E41B)
Rent reduction or waiver received	(L: E17-E19) (LX: Y70, Y106, Y108)
Expenses:	
Cash expenses	(LX: Y109, Y110, Y135)
Accountant	(L: E25:3-E28:3) (LX: Y60)
Advertisement	(L: E25:10-E28:10)
Cleaning service contract and occasional work	(L: E25:12-E28:12, E25:14-E28:14) (LX: Y103)
Equipment service contract	(L: E25:13-E28:13) (LX: Y104)
Exterminating service	(L: E25:11-E28:11) (LX: Y62)
Gross cost	(LX: Y137)
Janitorial supplies	(L: E25:9-E28:9) (LX: Y68)
Legal services	(L: E25:1-E28:2) (LX: Y59)
Management firm	(L: E3-E5) (LX: Y58)
Office space and supplies	(L: E25:6-E28:8) (LX: Y63)
Real estate broker	(L: E25:4-E28:4) (LX: Y41)
Rental agent	(L: E25:5-E28:5) (LX: Y61)
Repairs and improvements (see REPAIRS AND IMPROVEMENTS)	
Selling portion of property	(L: C6A)
Other incidental expenses	(L: G76-G80) (LX: Y140, Y141)
Reliability of landlord information	(L: E40, E41A, E41C, G82H)
Noncash expenses (value of unpaid labor):	
Maintenance	(L: F23-F28) (LX: Y111, Y136, Z56)
Management	(L: F17-F22) (LX: Y112, Y133, Z57)
Other operations	(L: F29-F34) (LX: Y113, Y134, Z58)
Repairs and improvements (see REPAIRS AND IMPROVEMENTS)	(L: F8-F8A)
Time spent on unpaid labor:	
Household members	(T: CT45, CH92, CM115, CL52)
Owner and spouse	(L: F17-F17A, F23-F23A, F29-F29A)
Relatives and friends	(L: F18-F18A, F24-F24A, F30-F30A)
Landlord's real estate experience	(L: B12, B36) (LX: L2)
Nonsampled properties owned	(LA: T41)
Other properties owned	(L: B5-B7) (LX: L36)

MANAGEMENT OF RENTAL PROPERTY (cont.)

Landlord's real estate experience (cont.)	
Rental properties owned	(LA: L5)
Sampled properties owned	(L: V14) (LA: T39)
Landlord-tenant relations:	
Landlord satisfaction with tenants	(L: H16-H22)
Tenant complaints	(L: H27-H28) (T: BT91, BT98, BM91, BM98, BL92, BL98)
Tenants related to owner	(L: V46-V47, H15) (LX: Z8, Z9) (T: A67)
Regular rent reduction	(L: D19, D45, D58)
Temporary rent reduction	(L: D21, D47, D59)
Tenant satisfaction with landlord	(T: BT94, BM94, BL94)
Plans to sell property	(L: J13, J14) (LX: Z43)
Reason for selling	(L: J15)
Selling price	(L: J16-J19) (T: CH79, CM99)
Problems facing landlords today	(LA: K48)
Professional services employed	(LX: Z42)
Rent policy:	
Deposit required	(L: H25-H26)
Lease	(L: H23-H24) (LA: K30) (T: CT7-CT8, CM6-CM7, CL6-CL7, D48:B)
Likelihood of raising rent	(L: J6-J8)
Payment period	(T: CT9, CM8, CL8) (TX: PP, PPM)
Rent change	(L: D78) (T: CT18-CT25, CM21-CM28, CL25-CL32)
Rent collection	(L: E5B, E25:5-E28:5, H20)
Screening	(L: H29) (LX: Z41)
Willingness to rent to families, college students, etc.	(T: BT93, BM93, BL93)
Resident landlord	(L: V35, V48, C84, D17, D43, D43A, D56, P6) (LX: L3, L19) (T: BT88, BM88, BL88) (TX: LLC6)
Responsibility for general upkeep and maintenance	(T: BT89, BM89, BL89)
Vacancy:	
Number of evictions	(L: H5-H6) (LX: Z63)
Number of households that moved	(L: H3) (LX: Z67)
Number of vacant units	(L: H7-H8)
Period of vacancy	(L: H4, H12)
Reason unit unavailable for rent	(L: H13-H14, J3, J6)

NEIGHBORHOOD CHARACTERISTICS

Abandoned buildings and vehicles (R: A12G-H, A25B-C, B66B-C, VLA9B-C)
(RX: BA36, BA37) (N: SO22-SO23)

Access to facilities and services:

- Commercial (N: NQ3:V-X)
- Educational (N: NQ3:O-U)
- Institutional (N: NQ3:A-F)
- Recreational (N: NQ3:G-I)
- Religious worship (N: NQ3:J-N)
- Utilities and other services (N: NQ5)

Air pollution level (T: BT69D, BH69D, BM69D, BL69:D)
(N: NQ14)

Allowance program effects on neighborhood:

- Past effects (LA: K13-K13A) (TA: H11-H11A)
- Possible future effects (LA: K14-K14A) (TA: H12-H12A)

Body of water (N: NQ11, A11)

Changes:

- Buildings converted to commercial use (T: BT54, BH54, BM54, BL54)
BL58-BL59:D)
- Different types of people moving in or out (L: I9-I10) (T: BT58-BT59:D,
BH58-BH59:D, BM58-BM59:D,
- Fewer buildings (T: BT56, BH56, BM56, BL56)
- More buildings (T: BT55, BH55, BM55, BL55)

Condition of all properties/buildings in area (L: I5) (T: BT52-BT52A, BH52-BH52A,
BM52-BM52A, BL52-BL52:A) (N: SO24) (NX: QRB)

Condition of property/building/unit compared with others in area (L: I7) (LX: BA20) (T: BT86,
BH86, BM86, BL86) (TX: HEA2)
(R: B85-B87, VLB27-VLB28) (RX: BA14)

Construction activity (N: SO19, SO20)

Employment (NX: WGTFFEMP, WGTMEMP, GAE1, GAE2)

Floodplain (N: NQ13)

Highways, streets, roads (T: BT69B, BH69B, BM69B, BL69:B)
(R: A22, B62, VLA7) (N: NQ6-NQ8,
A6-A8)

Identifiers:

- Census block (LX: CBLOCK) (TX: CBLOCK)
(RX: CBLOCK) (N: NBE1-2,
NCTBL1A-B, NCTBL2A-B)
- Census enumeration district (LX: CED) (TX: CED) (RX: CED)
(N: NBE1-2, NCTBL1A-B, NCTBL2A-B)

NEIGHBORHOOD CHARACTERISTICS (cont.)

Identifiers (cont.)	
Census tract	(LX: CTRACT) (TX: CTRACT) (RX: CTRACT)
Geographic area	(TX: AGGNBH) (NX: AREA, CITY, DISTRT)
Neighborhood code	(LX: NBHDCODE) (TX: NBHDCODE) (RX: NBHDCODE) (NX: NBHDCODE)
Street segment	(NX: NBHDSEG)
Taxing unit	(LX: X39) (TX: TU)
Land use	(N: NQ1:Y, NQ2:Y) (NX: ACRES)
Body of water	(R: A12E, A18L) (N: NQ1:W, NQ2:W)
Cemetery	(N: NQ1:S, NQ2:S)
Commercial	(R: A18C) (RX: BS5) (N: NQ1:F-G, NQ2:F-G, S09)
Farmland	(R: A18G) (N: NQ1:R, NQ2:R, S012, S015, S016)
Industrial	(R: A18D-E, (N: NQ1:H-L, NQ2:H-L)
Institutional	(R: A18K) (RX: BS10) (N: NQ1:M-N, NQ2:M-N, S011)
Mixed-use, other	(R: A18B, A18J) (N: NQ1:X, NQ2:X, S07, S010)
Open space	(R: A12A-B, A12D, A18F, A18I) (N: NQ1:O-Q, NQ2:O-Q, S014, S017, S018)
Parking lot	(R: A18H) (N: NQ1:T, NQ2:T, S013)
Residential	(R: A18A) (N: NQ1:A-E, NQ2:A-E, S01-S08)
Streets and roads	(N: NQ1:V, NQ2:V)
Vacant buildings and mobile home spaces	(R: A12C) (N: NQ1:U, NQ2:U)
Location	(NX: X, Y, DIST1CBD, DIST2CBD)
Mobile homes in area	(N: S08, S021)
Neighbors:	
Behavior	(T: BT62-BT62A, BH62-BH62A, BM62-BM62A, BL62-BL62:A)
Degree of acquaintance with neighbors	(T: BT61, BH61, BM61, BL61)
Income level	(T: BT57-BT57A, BH57-BH57A, BM57-BM57A, BL57-BL57:A)
Proportion of friends living nearby	(T: BT71, BH71, BM71, BL71)
Upkeep of properties	(L: I11) (T: BT60-BT60A, BH60 BH60A, BM60-BM60A, BL60-BL60:A)
Noise level	(T: BT69C, BH69C, BM69C, BL69:C) (N: NQ15)
Planned highways and facilities	(N: NQ4, NQ9, A9)

NEIGHBORHOOD CHARACTERISTICS (cont.)

Problems with gangs, traffic, etc. (T: BT69-BT70, BT91:J, BH69-BH70, BM69-BM70, BM91:J, BL69-BL70, BL92:J)
(TX: BA32, BA33)

Property values (L: I12)

Public transportation (T: BT69J, BH69J, BM69J, BL69:J)
(N: NQ5A)

Quality:

Cleanliness (T: BT69E, BH69E, BM69E, BL69:E)
(R: A26, B65) (N: SO28) (NX: CLN)

Elementary schools (T: BT66-BT67B, BH66-BH67B, BM66-BM67B, BL66-BL67:B)

Landscaping (R: A16, B61) (RX: RLNDSCP, PLNDSCP, LNDSCP, BA13, LNDSCPNG) (N: SO25) (NX: QRL)

Neighborhood (L: I8) (T: BT100-BT101, BH100-BH101, BM100-BM101, BL100-BL101)

Nonresidential land (R: A19-A21, B67-B68)

Police (T: BT64-BT64A, BH64-BH64A, BM64-BM64A, BL64-BL64:A)
(TX: BA31A)

Sidewalks (R: A24, B64) (N: SO27) (NX: QSW)

Streets (R: A23, B63, VLA8)
(RX: RSTREET, PSTREET, STREET, RVSTREET, PVSTREET, VSTREET)
(N: SO26) (NX: QPS)

Vacant land (N: SO29) (NX: QVL)

Yards and grounds (R: A17) (RX: RYARD, PYARD, YARD)

Railroads (N: NQ10, A10)

Safety (T: BT63-BT63A, BT65, BH63-BH63A, BH65, BM63-BM63A, BM65, BL63-BL63:A, BL65)

Satisfaction with neighborhood (L: I6) (T: BT102, BH102, BM102, BL102)

Soil limitations on residential improvement (N: NQ12)

Street lighting (T: BT69A, BH69A, BM69A, BL69:A)
(R: A12F, A25A, B66A, VLA9A)
(N: NQ5E)

Type of residential buildings (R: A14, A15, B60, B84, VLA6, VLB26)

NEIGHBORHOOD CHARACTERISTICS (cont.)

Urban/rural (L: I4) (T: BT49, BT53, BH49, BH53, BM49, BM53, BL49, BL53, CT2, CH3, CH12, CM2, CL2)
 (R: A13, B83, VLA5, VLB25)
 (N: URBNBHD)

PERSONAL CHARACTERISTICS

Age (L: B25) (LX: L6) (T: G9, G12)
 (TX: HAGE, SAGE, MODHAGE1)

Attitudes toward:

Different types of people (renters, landlords) (LA: K46) (TA: H94)

People of different races (LA: K46G-J, K47)
 (TA: H94:F, H94:H-J, H95, H96)

Education (L: B23-B24) (LX: L38)
 (T: G10-G10A, G13-G13A)
 (TX: HEDUC, SEDUC, MODHED1)

Employment:

Household heads' employment history:

Dates (T: E6-E7, E17-E18, E22-E23, E31-E32, F6-F7, F17-F18, F22-F23, F31-F32)
 Location (T: E8, E24, F8, F24)
 Occupation and industry (T: E12-E13, E26-E27, F12-F13, F26-F27)
 Salary (T: E14-E15, E28-E29, F14-F15, F28-F29)
 Status (employed, on strike) (T: E3-E5, E19-E21, E33-E34, F3-F5, F19-F21, F33-F34)
 (TX: HLFP, FLFP)
 Transportation, travel time (T: E9-E10, F9-F10)
 Work hours (T: E16, E30, E35, F16, F30, F35)

Household members:

Farming or other business (T: CT4, CT70-CT71, CH5, CH14, CH121-CH122, CM4, CM149-CM150, CL4, CL82-CL83)
 Number of employed adults (TX: ENS, NS, NEMPP)
 Number of unemployed adults (TX: ENA, NA)
 Status (employed, on strike) (T: G11-G11C)
 Work for landlord (T: CT12-CT13, CM11-CM13, CL17-CL18)

Landlord:

Real estate job:
 Income (L: B11, B28) (LX: L7)
 Time spent (L: B27) (LX: L20)
 Non-real estate job:
 Occupation and industry (L: B34) (LX: L21)
 Time spent (L: B29-B30) (LX: L12)

PERSONAL CHARACTERISTICS (cont.)

Household characteristics completeness indicator	(TX: HCPLT)
Household composition	(T: G7) (TX: HSTRUC, FELIG)
Children	(T: BT68, BH68, BM68, BL68, G17) (TX: NC, NM, ENM)
Lodgers	(T: A23, G3, G4)
Life-cycle stage of family	(T: FCYCLE, HCYCLE)
Pets	(T: G29)
Relationship of household members	(T: A21-A22, G6)
Size	(T: A20, G2, G14-G15) (TX: NH, EHS, PPERR)
Income level (for landlords, see RENT; for households, see INCOME AND ASSETS)	(L: B11, B28) (TA: H104)
Interaction with government and involvement in public affairs	(LA: K40-K44) (TA: H90-H92A)
Participation in organizations:	
Property owner, real estate	(L: B19-B20)
Tenant, fair-housing	(L: B13-B17) (T: BT96-BT99, BM96-BM99, BL96-BL99)
Other	(L: B21-B22A) (T: BT72-BT83, BH72-BH83, BM72-BM83, BL72-BL83) (TX: MORGCNT, FORGCNT, RORGCNT)
Race	(L: B38, H30, K50) (LX: L17) (T: G30-G31) (TA: H102, H103) (TX: HHRACE, MDHRACE1)
Sex	(L: B37, K49) (LX: L16) (T: G8) (TX: ATMODRSP, ALTATMOD)

PROPERTY CHARACTERISTICS

Acquisition:	
Date	(L: V13, V23, A5-A6, P1, P4, P14) (LX: Z1) (T: A36-A37, A48-A49, A59-A60, CH17-CH18, CM34) (TX: W4, W5)
Financial records given to new owner	(L: V22, V24, V49, A16) (T: A38, A40, A50, A52, A61, A63, A64:A, CH2A, CH11, CH75)
How acquired (bought, traded, inherited)	(L: A4, A7, A10) (T: CH16, CH19-CH20B, CM35-CM36)
Reason	(L: A8-A9, A11) (LX: Z2)
Value/worth/purchase price	(L: A12-A15) (LX: X63) (T: CH21-CH26, CM37-CM40) (TX: W6)

PROPERTY CHARACTERISTICS (cont.)

Bedrooms in units on property	(L: C75-C78, C80, C85, C87) (LX: X38)
Buildings on property:	
Condition:	
Outbuildings (sheds)	(R: A3, A5-A6, A8, VLA3, VLA4) (R: ROUTBLDG, POUTBLDG, OUTBLDG) (L: J4) (LX: EA15)
Residential	
Number:	
Commercial	(L: C61-C62, C67-C68) (LX: T3, X9) (TX: NNRBLDS)
Mixed-use	(TX: NMXBLDS)
Outbuildings (sheds)	(R: A7)
Residential	(L: C52, C53, C57) (LX: T2, X8) (TX: NRESBLDG)
Total	(TX: TOTNBLDG)
Changes to property	(L: C39-C41)
More land	(L: C17-C22)
Number of buildings	(L: C23, C25)
Number of units	(L: C24, C26)
Less land	(L: C3-C12)
Number of buildings	(L: C13, C15)
Number of units	(L: C14, C16)
More buildings	(L: C23, C27) (R: A1, VLA1)
Number of buildings	(L: C25, C28) (LX: X61)
Number of units	(L: C26, C29)
Fewer buildings	(L: C13, C32) (R: A2, VLA2)
Number of buildings	(L: C15, C33-C35) (LX: X62)
Number of units	(L: C16, C36)
More units	(L: C24, C26, C29-C31) (LX: X59)
Fewer units	(L: C14, C16, C36-C38) (LX: X60)
Subdivided units indicator	(LX: DS42)
Farmland	(L: C91, P12) (LX: INDFARM) (T: CT3, CH4, CH13, CM3, CL3) (TX: INDFARM) (R: A4)
Farmed by resident/tenant	(L: C93) (T: CT4, CH5, CH14, CM4, CL4)
Income received	(L: C92, D9B, D29-D31, P13)
Size	(T: CT72, CH123, CM151, CL84)
Financial return (see RENT)	(L: J23-J28)
Habitability	(L: V35A-V37, V39)
Identifier	(LX: ATP) (TX: ATP) (RX: ATP)
Observable features in apartment complex or mobile home park	(R: A12)

PROPERTY CHARACTERISTICS (cont.)

Mobile homes on property	(L: C42, D6, D9C-D, D32, D33)
Number of mobile homes	(L: C43, C49-C50, P9-P10)
	(LX: X34, X35) (TX: NMHUNTS)
Number of spaces	(L: C46-C47, P8) (TX: NEUNTS)
Tenure of mobile home and land (rented, owned)	(T: A27, A69-A73, CM5, CM15, CM19, CM19A, CM28A, CM33, CM41, CM52A, CM53, CM56, CM93, CM101X, CM122, CM127)
Number of units on property:	
Allowance program:	
Evaluated	(LA: K18, K18A) (LX: Z65)
Failed evaluation	(LA: K20, K21)
Occupants receiving payments	(LA: K28)
Commercial	(L: V43-V44, C55, C58-C61, C63- C69, D9A, F14, P11) (LX: X28)
	(TX: DRNCOM)
Landlord-occupied	(L: V48A)
Leased	(L: H23, H24)
Occupied	(L: H9)
Rented	(L: H10-H11)
Residential	(L: C44, C70-C72, D5, P7)
	(LX: T1, X1) (TX: RESUNIT)
Furnished	(L: C73)
Lodger	(L: C75:1, C76:1) (LX: X36)
	(TX: NRUNTS, NLUNTS)
Regular tenant (i.e., not mobile home, lodger)	(L: C54, C75:2-6, C76:2-6, C78:2-6, C79, C81, C83)
	(LX: X2-X6) (TX: NTUNTS)
Subsidized	(L: D76)
Vacant	(L: H7-H8)
Ownership:	
Business firm	(L: B9-B12) (LX: L2)
Legal owner	(L: V6-V16, V21, V28) (LX: ORID)
	(LA: IORID1-10) (T: A30-A33, A42-A45, A54-A57)
	(TX: ORID) (RX: ORID)
Relationship of respondent to property	(L: V27-V30, V49-V58, A2, B2, B4, B8, B26-B26A, C1, D1, E1, F1, F16, G1, H1, I2, J1, K2, P2, P5)
Type of ownership (partnership, trust, corporation)	(L: V25-V26, V31, V45) (LX: L9)
Parking availability	(T: CT27, CM29, CL34)
	(RX: GARGECPT)
Carport	(R: B46-B48) (RX: ES17)
Driveway	(R: B52-B53)
Garage	(R: B42-B45, VLB15) (RX: ES16)
Open space	(R: B49-B51)

PROPERTY CHARACTERISTICS (cont.)

Quality:	
Cleanliness	(RX: EA11)
Condition	(L: I7) (LX: BA20)
Landscaping	(R: B54)
Sidewalks and walkways on property	(R: B57) (RX: RSIDWLK, PSIDWLK, SIDWLK, EA9)
Yard and grounds maintenance	(T: BT45-BT45A, BH45-BH45A, BM45-BM45A, BL45-BL45:A)
	(R: B55-B56)
Resident landlord	(L: V35, V48, C84, D17, D43, D43A, D56, P6) (LX: L3, L19)
	(T: BT88, BM88, BL88) (TX: LLC6)
Resident employee	(L: E16)
Rooms in units on property	(L: C88) (LX: X74)
Size (acres)	(T: CT73, CH124, CM152, CL85)
Sale date	(L: V10, P1, P4, P14) (T: A34, A46, A58)
Swimming pool	(R: A10)
Tenure and type	
Buildings, mobile homes	(L: C45, C48, C51)
Rented, owned	(L: V38) (LX: TENURE, W1TENURE)
	(T: A27, A35, A47, A66-A67, A70-A73, CM19A)
	(TX: CTENUR) (RX: CTENUR)
Residential, commercial	(TX: FLDPTYPE)
Single-unit, multiunit	(T: A65, BT95, BM95, BL95)
	(TX: HES1) (R: A11)
Under construction	(L: V40-V42)
Value:	
Appreciation amount	(TX: HY16)
Assessed value	(LX: X40, X41, X45)
	(TX: INDVALC, HX45, HX47, HX48, W1, SLAND, SIMPR)
Owner estimate of market value	(L: J16-J22) (LX: X43)
	(T: CH79-CH81, CM99-CM101)
	(TX: HX43)
Ratio of nonfarm value to acquisition cost	(LX: FARMADJ) (TX: FARMADJ)
Ratio of owner estimate to assessed value	(LX: EQFACTOR) (TX: EQFACTOR)
Sale of capital to homeowner	(TX: HY18)
Value of properties in area	(L: I12)
Yard space	(T: BT21, BH21, BM21, BL21)

RENT

Collectable if (owned) unit rented	(L: C86) (T: CH80, CM100)
Collected/paid:	
Commercial	(L: D26, D28, D62-D63, D65-D66, D68-D69) (LX: Y13)
Farmland	(L: C92, D29-D31)
Residential	(L: D10-D12, D23-D24) (LX: Y11, Y12)
Lodger	(L: C77:1) (T: CL9-CL10)
Mobile home resident	(L: D32-D38, D49-D53, D60-D61) (T: CM9-CM10A)
Tenant	(L: C77:2-6, C82, C89) (T: CT10-CT11)
Other	(L: D70)
Total:	
Annualized rent roll	(LX: T25)
Contract	(LX: Y79) (TX: CONTRENT)
Full market	(L: D79-D81)
Gross	(LX: Y138) (TX: MOGGRENT)
Completeness indicator	(LX: INDREFC)
Deposit	(L: H25-H26)
Household rent status (full rent, reduced rent, free rent)	(TX: RSTAT)
Parking fee	(T: CT28-CT30, CM30-CM32, CL35-CL37)
Payment period	(T: CT9, CM8, CL8) (TX: PP, PPM)
Reduction, waiver	(LX: Y15)
Cheaper meals for lodgers	(T: CL66-CL67)
For employees	(L: E17-E19) (LX: Y106-Y108)
Regular	(L: D19-D20, D45-D46, D58) (T: CT12-CT17, CM11-CM18, CL17-CL24:B)
Temporary	(L: D21-D22, D47-D48, D59) (T: CT53-CT55, CM124-CM126, CL60-CL65)
Reliability of landlord information	(L: D3-D4, D9E-F, D82, D83A-G)
Rent changes	(L: D78) (T: CT18-CT25, CM21-CM28, CL25-CL32)
Rent loss	
Commercial	(L: D25-D27, D62-D68) (LX: Y23)
Residential:	
Bad debts	(L: D15-D16, D41-D42, D55) (LX: Y22)
Resident landlord's unit	(L: C86, D17-D18, D43-D44, D56-D57)
Vacancy	(L: D13-D14, D39-D40, D54) (LX: Y21)

REPAIRS AND CAPITAL IMPROVEMENTS

Arranged by professional management firm	(L: E5E)
Complaints about work done	(L: F12) (T: CT50, CH97, CM120, CL57)
Completed by previous owner just before property sold	(L: A17-A19)
Cost compared with other years	(T: CH99-CH100, CM128-CM129)
Cost to improve building	(L: J5)
Depreciable/operating expense	(L: F13) (T: CT51, CH98, CM121, CL58)
Description	(L: F4-F5) (T: CT41-CT42, CH88-CH89, CM111-CM112, CL48-CL49)
Ever refused loan to improve property	(T: CH105, CM124)
Expenses:	
Cash expenses	(L: F6-F7, F9) (T: CT43-CT44, CT46, CT52, CH90-CH91, CH93, CM113-CM114, CM116, CM123, CL50-CL51, CL53, CL59)
Air conditioning	(LX: Y146) (TX: HY146, TY146)
Appliance	(LX: Y142) (TX: HY142, TY142)
Capital addition	(LX: Y93, Y123) (TX: HY93, TY93)
Energy and plumbing	(LX: Y99, Y129) (TX: HY99, TY99)
Painting	(LX: Y101, Y131) (TX: HY101, TY101)
Repairs	(LX: Y95, Y125, Y135) (TX: HY95, TY95)
Structural remodeling and landscaping	(LX: Y97, Y127, Y144) (TX: HY97, HY144, TY97, TY144)
Noncash expenses (value of unpaid labor)	(L: F8-F8A)
Air conditioning	(LX: Y147) (TX: HY147, TY147)
Appliance	(LX: Y143) (TX: HY143, TY143)
Capital addition	(LX: Y94, Y124) (TX: HY94, TY94)
Energy and plumbing	(LX: Y100, Y130) (TX: HY100, TY100)
Painting	(LX: Y102, Y132) (TX: HY102, TY102)
Repairs	(LX: Y96, Y126, Y136) (TX: HY96, TY96)
Structural remodeling and landscaping	(LX: Y98, Y128, Y145) (TX: HY98, HY145, TY98, TY145)
Time spent on unpaid labor	(T: CT45, CH92, CM115, CL52)
Indicators:	
Capital addition	(TX: INDMCAP)
Completeness	(TX: INDREPC, INDHRSC)
Repair	(TX: INDMREP)

REPAIRS AND CAPITAL IMPROVEMENTS (cont.)

Means of payment (cash, credit, loan)	(L: F11, G73) (T: CT48-CT49, CT63-CT65, CH95-CH96, CH114-CH116, CM118-CM119, CM142-CM144, CL55-CL56, CL75-CL77)
Percentage of repair cost on residential portion	(L: F15)
Plans to make major repairs and improvements	(L: J9-J12) (T: CH101-CH104, CM130-CM133)
Reliability of landlord information	(L: F35-F36)
Repairs to qualify for allowance payments	(LA: K23-K25) (TA: H47-H49, H50-H53A)
Who did the work	(L: F10) (T: CT47, CH94, CM117, CL54) (TA: H51)
Who is responsible for general repair and painting of building exterior	(T: BT89:4, BM89:4, BL89:4)
Work done in reasonable amount of time	(T: BT90, BM90, BL90)

RESIDENCY HISTORY

Attempt to move in past year	(T: D6, D7, D10)
Housing search	(T: D11-D16)
Problems in finding housing	(T: D17-D24)
Reason considered moving	(T: D8, D9)
Reason decided not to move	(T: D26-D26A)
Current residence:	
Household composition	(T: D46, D51, D64-D66)
Housing search	(T: D37-D41, D43-D44, D49)
Moving expenses	(T: D54-D56, D59-D63)
Problems in finding housing	(T: D45-D53)
Reason moved, chose this place	(T: D57-D57A)
Residency date	(T: D33-D36)
Tenure (owned, rented, occupied rent-free)	(TX: TENCHG)
Length of time in neighborhood	(T: BT50-BT51, BH50-BH51, BM50-BM51, BL50-BL51)
Plans to move	(T: D4-D5, D7, D25, D28-D28A)
Exit fee required from mobile home park	(T: D31-D32)
Reason moving	(T: D29-D30)

RESIDENCY HISTORY (cont.)

Previous residences:

Apartment, single-family home	(T: D70, D126)
Characteristics (e.g., physical)	(T: D69, D72, D82, D86-D89, D92-D98, D129-D130)
Condition	(T: D99-D100)
Expenses:	
Rent	(T: D71, D75-D81B, D112-D114)
Utilities	(T: D82-D83)
Household composition	(T: D120-D122, D133-D135)
Location	(T: D42, D67A-D68B)
Neighborhood description	(T: D101-D108)
Number of residences, moves	(T: D110-D111, D124, D132, D137) (TX: NMOVEYR)
Property description	(T: D85-D91, D115-D119)
Reason moved, chose that place	(T: D109-D109A, D123-D123A, D131, D136)
Residency dates	(T: D67B)
Selling price	(T: D84, D85)
Tenure (owned, rented, occupied rent-free)	(T: D73-D74, D127-D128)

TAXES

Net due	(TX: NETTAX)
Real estate	(L: G57) (LX: Y24) (T: CH77, CM95) (TX: HY24, ESTR TAX)
Completeness indicator	(TX: INDTAXC)
Included in mortgage/loan/ land contract payment	(L: G19, G39D, G48C, G51D) (T: CH36, CH54D, CH55C, CH67D, CM50, CM74D, CM75C, CM88D)
Tax rate	(TX: TAXRATE)
Special assessments	(L: G56) (LX: Y40) (T: CH76, CM94) (TX: HY40)
Other taxes	(L: G58-G59B) (T: CH78, CM96-CM98)
Reliability of landlord information	(L: G81, G82E)

UNIT CHARACTERISTICS

Appliances:

Availability:

Air conditioner	(T: BT22:E, BH22:E, BM22:E, BL22:E) (TX: HDS18)
Clothes dryer	(T: BT22:G, BH22:G, BM22:G, BL22:G)
Dishwasher	(T: BT22:C, BH22:C, BM22:C, BL22:C) (TX: HDS16)

UNIT CHARACTERISTICS (cont.)

Appliances (cont.)

Availability (cont.)

Disposal	(T: BT22:D, BH22:D, BM22:D, BL22:D) (TX: HDS17)
Hot plate	(T: BL22:A1)
Refrigerator	(T: BT22:B, BH22:B, BM22:B, BL22:B) (TX: HDS15)
Sink	(T: BL22:B1)
Stove	(T: BT22:A, BH22:A, BM22:A, BL22:A) (TX: HDS14)
Washing machine	(T: BT22:F, BH22:F, BM22:F,
Condition	(T: BT24-BT25, BH24-BH25, BM24-BM25, BL24-BL25)
Landlord-supplied	(TX: LLAP)
Air conditioner	(T: BT23:E, BM23:E, BL23:E) (TX: LLC5)
Clothes dryer	(T: BT23:F, BM23:F, BL23:F)
Dishwasher	(T: BT23:C, BM23:C, BL23:C) (TX: LLC3)
Disposal	(T: BT23:D, BM23:D, BL23:D) (TX: LLC4)
Hot plate	(T: BL23:A1)
Refrigerator	(T: BT23:B, BM23:B, BL23:B) (TX: LLC2)
Stove	(T: BT23:A, BM23:A, BL23:A) (TX: LLC1)
Washing machine	(T: BT23:G, BM23:G, BL23:G)
Repairs	(LX: Y142, Y143, Y146, Y147) (TX: HY142, HY143, HY146, HY147, TY142, TY143, TY146, TY147)
Basement condition	(T: BT39, BH39, BL39)
Changes to unit:	
Fewer rooms	(T: BT8-BT8A, BH8-BH8A, BM8-BM8A)
More rooms	(T: BT7-BT7A, BH7-BH7A, BM7-BM7A)
Rooms converted to different use	(T: BT5-BT6E, BH5-BH6E, BM5-BM6E)
Subdivided units indicator	(LX: DS42)
Electrical fuses	(T: BT33-BT33A, BH33-BH33A, BM33-BM33A, BL33-BL33A)
Floor condition	(T: BT41, BH41, BM41, BL41) (TX: HDA21)
Furnished	(L: C90) (T: CT26, CM20, CL33)
Heating system	(T: BT26-BT28, BH26-BH28, BM26-BM28, BL26-BL28) (TX: HDS23, HDS24, CENTSTM, HDS26)
Identifier	(TX: UNIT)

UNIT CHARACTERISTICS (cont.)

Interior quality	(TX: INTQUAL)
Locks on doors and windows	(T: BT37, BH37, BM37, BL37)
Plumbing facilities	(T: BT11, BT29-BT32, BH11, BH29-BH32, BM11, BM29-BM32, BL11, BL29-BL32)
Rooms:	
Bathrooms	(T: BT12-BT13B, BH12-BH13B, BM12-BM13B, BL12-BL13:D) (TX: BATHS, HDS9, HDS10)
Bedrooms	(T: BT9, BT19, BH9, BH19, BM9, BM19, BL9)
Kitchen	(T: A16:C, A17:B, BT10, BH10, BM10, BL10)
Number in unit	(T: BT3, BH3, BM3, BL3) (TX: HDS1, HDS1A)
Occupant satisfaction	(T: BT14-BT17, BH14-BH17, BM14-BM17, BL14-BL17)
Types per unit	(T: BT4, BH4, BM4, BL4)
Satisfaction with unit	(T: BT84-BT85A, BH84-BH85A, BM84-BM85A, BL84-BL85A) (TX: HDA22)
Separate living quarters in unit	(T: A16:B, A17-A18)
Signs of rats, termites, pests	(T: BT43, BH43, BM43, BL43)
Storage space	(T: BT20, BH20, BM20, BL20) (TX: HDS12A)
Stories or levels in unit	(T: BT47-BT48, BH47-BH48, BL47-BL48)
Tenure and type:	
Regular unit, mobile home, lodger, condominium, cooperative	(T: A16, A25, A28, A64:B, CH15, CH74, CM109, D58)
Rented, owned, occupied rent-free	(T: A26-A26:A, A28-A28:B, A28C, A69, CT6, CM19A, CL5, CL37:X) (TX: TENURE)
Residential, commercial	(T: A16:A) (TX: UTYPE, TYPUNT)
Wall and ceiling condition	(T: BT38, BT40, BT42, BH38, BH40, BH42, BM38, BM40, BM42, BL38, BL40, BL42) (TX: HDA20)
Window condition	(T: BT34-BT36, BH34-BH36, BM34-BM36, BL34-BL36) (TX: HDA18)

UTILITIES

Availability in neighborhood:	
Electricity	(N: NQ5B)
Gas	(N: NQ5C)
Rubbish and garbage removal	(N: NQ5H, NQ5K, NQ5L)
Sewer system (public)	(N: NQ5F, NQ5G)
Water (piped-in)	(N: NQ5D)
Completeness indicators	(LX: T47, T48) (TX: INDUTILC)
Estimated expense indicators	(TX: ESTUE, ESTUG, ESTUF, ESTUO, ESTUW, ESTUS, ESTUR)
Expenses:	
Electricity	(L: E32:1-E35:1) (LX: Y49, Y114) (T: CT31:1-CT34:1, CH82:1-CH84:1, CM102:1-CM105:1, CL38:1-CL41:1) (TX: HY49, UE)
Fuel oil	(L: E32:3-E35:3) (LX: Y51, Y116) (T: CT31:3-CT34:3, CH82:3-CH84:3, CM102:3-CM105:3, CL38:3-CL41:3) (TX: HY51, UF)
Gas	(L: E32:2-E35:2) (LX: Y50, Y115) (T: CT31:2-CT34:2, CH82:2-CH84:2, CM102:2-CM105:2, CL38:2-CL41:2) (TX: HY50, UG)
Other fuel	(L: E32A:4-E35:4) (LX: Y52, Y117) (T: CT31:OF-CT34:4, CH82:OF-CH84:4, CM102:OF-CM105:4, CL38:OF- CL41:4) (TX: HY52, UO)
Rubbish and garbage removal	(L: E32:5-E35:5) (LX: Y53, Y118) (T: CT31:7-CT34:7, CH82:7-CH84:7, CM102:7-CM105:7, CL38:7-CL41:7) (TX: HY53, UR)
Sewer system (public)	(L: E32:7-E35:7) (LX: Y55, Y120) (T: CT31:6-CT34:6, CH82:6-CH84:6, CM102:6-CM105:6, CL38:6-CL41:6) (TX: HY55, US)
Water (piped-in)	(L: E32:6-E35:6) (LX: Y54, Y119) (T: CT31:5-CT34:5, CH82:5-CH84:5, CM102:5-CM105:5, CL38:5-CL41:5) (TX: HY54, UW)
Other utilities	(L: E36-E39) (LX: Y56, Y121) (T: CT35-CT36, CH85-CH86, CM106-CM107, CL42-CL43) (TX: HY56, UA1, UA2)
Total	(LX: Y25, Y42) (TX: HY25, U)
Fuel used for:	
Air conditioning	(L: E34D:1-2) (LX: X71) (T: CT32:D1,2,4, CH83:D1,2,4, CM103:D1-4, CL39:1,2,4D) (TX: HX71)

UTILITIES (cont.)

Fuel used for:

Cooking

(L: E34A:1,2,4) (LX: X73)
(T: CT32:A1,2,4, CH83:A1,2,4,
CM103:A1-4, CL39:1,2,4A)
(TX: HX73)

Space heating

(L: E34B:1,2,4) (LX: X70)
(T: CT32:B1,2,4, CH83:B1,2,4,
CM103:B1-4, CL39:1,2,4B)
(TX: HX70)

Water heating

(L: E34C:1-2) (LX: X72)
(T: CT32:C1,2,4, CH83:C1,2,4,
CM103:C1-4, CL39:1,2,4C)
(TX: HX72)

Reliability of landlord information (L: E40, E41D-E)

Appendix C

CROSS-WAVE INDEXES OF SURVEY VARIABLES

For each HASE survey type, this appendix presents an index of topically corresponding variables across all survey waves. When used with the appropriate codebooks, the index enables the user to track related variables from file to file.

PURPOSE

As documented in Sec. II, survey instruments were frequently revised to meet new analytic requirements, resolve minor field problems, and reduce respondent burden. Questions were added, dropped, moved, separated into multiple smaller questions, or combined into single questions.[1] For ease of survey administration, all questions were renumbered to match the new sequence. Therefore, variables representing particular questions do not bear the same name from file to file. The cross-wave indexes indicate the name shifts over time for the convenience of users planning their analyses.

COMPOSITION

The indexes are arranged in the following order: landlord (LL), household (TH), residential buildings (RB), neighborhood local sources (NS), and neighborhood street observation (NO) surveys. Within an index, the variables from the survey instrument proper are listed first, followed by variables from the various supplementary forms, including the record folder, validation form, refusal/breakoff report, and others as applicable. Generally, the variable names are the same as the question numbers in the codebooks.[2]

Within each index, the corresponding variable names are listed horizontally from left to right in the order the surveys were

[1] The substance of these changes is traced in Sec. II.

[2] We excluded from the indexes variables for which space on the files was reserved but never filled. Listed at the end of this appendix, they pertain to questions whose responses were never coded, and redundant or filler questions. Those questions may or may not be documented in a codebook.

administered. The column headings specify the file by survey type, site, and wave. For example, "TH22" heads the column of variables in the household survey file from Site II, wave 2. The II:2 variables are the references to which the variables in the other files are matched.[3] The Site II, wave 2 surveys marked the midpoint of the experiment, and their instruments have most in common with the instruments of earlier and later waves.

For clarity and brevity, we observe certain conventions in the index entries:

- Two or more variables that correspond to one variable on another file are bracketed if they are in numeric sequence. For example,

$$A1 \quad \left\{ \begin{array}{l} A5 \\ A6 \end{array} \right.$$

- To preserve the order of variables on the reference II:2 files, we do not bracket two or more nonsequential II:2 variables that correspond to one non-II:2 variable. The common variable is repeated next to each of its corresponding II:2 variables, which are listed in their proper sequence. For example,

<u>Non-II:2</u>	<u>II:2</u>		<u>Non-II:2</u>	<u>II:2</u>
A1	A5			$\left\{ \begin{array}{l} A5 \\ A8 \\ A6 \\ A7 \end{array} \right.$
	A6	not	A1	
	A7			
A1	A8			A7

A footnote identifies the variables that are repeated in that manner.

- Variables that represent parts of a single question may be grouped. For example, D25:1-5 represents parts 1 through 5 of question D25. The alignment of different numbers of

[3] For the neighborhood surveys, which were administered only at waves 1 and 4, the I:1 variables are the references.

parts across files means that the groups of variables correspond as a whole. For example,

D25:1-5	D32:1-3	means	D25:1	} {	D32:1
			D25:2		D32:2
			D25:3		D32:3
			D25:4		
			D25:5		

The alignment of the same number of parts across files means that the parts correspond exactly. For example,

B12A-D	B14:A-D	means	B12A	B14:A
			B12B	B14:B
			B12C	B14:C
			B12D	B14:D

To clarify groupings that would otherwise be confusing, we enclose the numbers or letters that change within parentheses. For example,

U(1-4)A1 means U1A1, U2A1, U3A1, and U4A1

Other conventions unique to a particular survey are described at the beginning of its index.

USE OF THE INDEXES

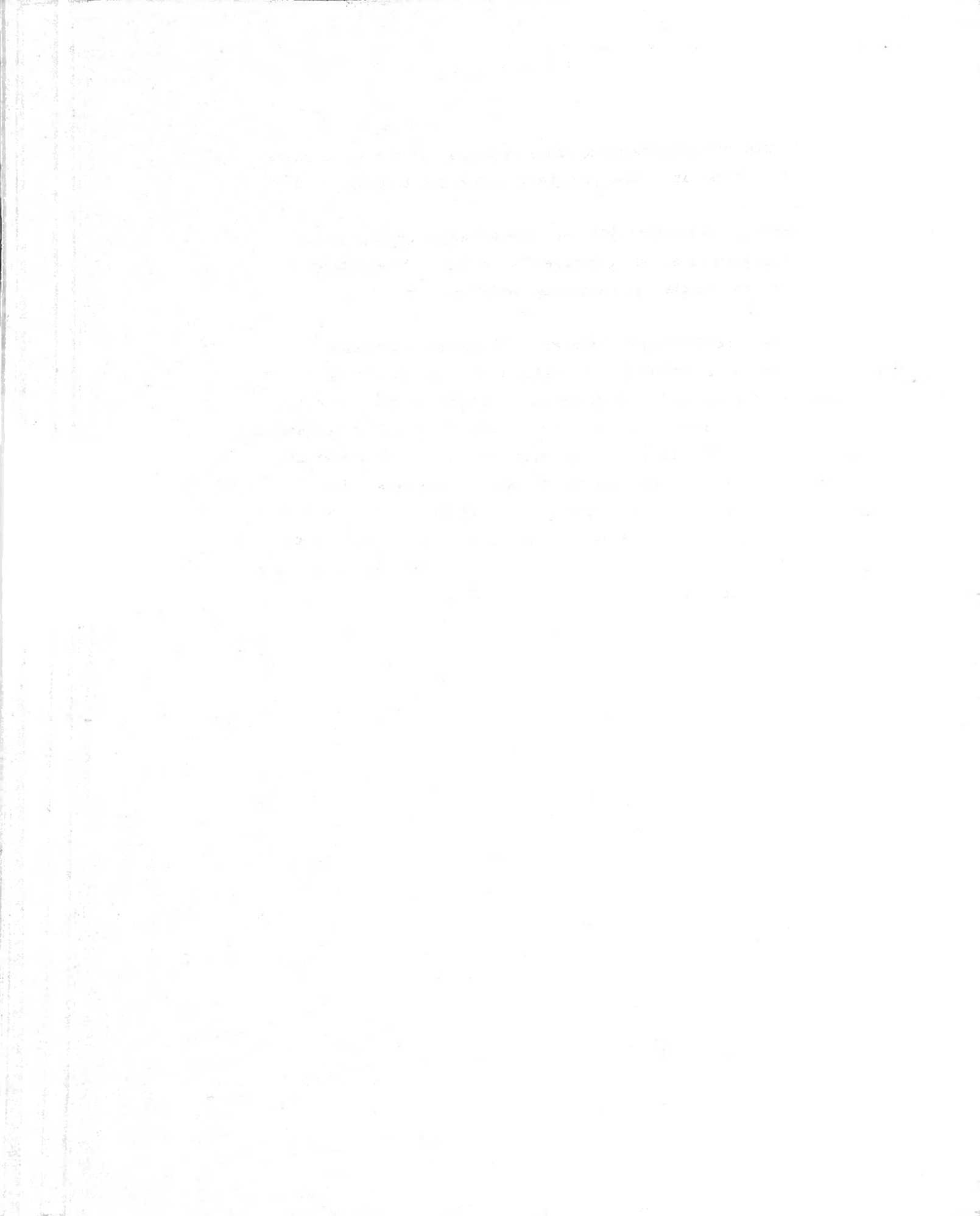
The following steps outline an appropriate use of the indexes.

1. Scan the topical index (Appendix B) to determine the reference variables of interest.[4] As noted, the II:2 variables are used as reference variables.
2. Verify the relevance of the variable's content by consulting the appropriate II:2 codebook.
3. In the index for the appropriate survey type, locate the variable name of interest in the II:2 column, the middle column printed in boldface type.

[4] Derived variables, which are covered in the topical index, are omitted in these indexes because their names do not change from file to file. Appendix D indicates which derived variables are on which files.

4. Locate the corresponding variable names for the other files of interest in columns to the left and right of the II:2 column.
5. Verify the comparability of information sought, response codes, and responding samples by checking the codebook entries for the corresponding variables.

We stress the importance of step 5. Instrument revisions entailed changes of response codes, skip patterns, and subtle alterations of meaning in the questions. Though the horizontally aligned variables correspond, they may not be identical in content or response values. For example, landlords were asked the number of hours a week they spend working on real estate business. The response "less than one hour per week" is represented by code 1 on the baseline files, code 169 on the LL12 file, and code 999 on the LL22 and LL13 files. In the remaining survey files, that response is incorporated into code 1, "one hour or less."



LANDLORD SURVEY INDEX

The LL11 validation form had separate versions for single-unit and multiunit properties. As applicable, the variables on the single-unit version (prefixed by "VS") are bracketed with those of the multiunit version (prefixed by "VM").

Modules V, A through K

<u>LL11</u>	<u>LL21</u>	<u>LL12</u>	<u>LL22</u>	<u>LL13</u>	<u>LL23</u>	<u>LL14</u>	<u>LL24</u>
		VSTAT:C	LSTAT:D	LSTAT:D	LSTAT:D	LSTAT:D	LSTAT:D
	VSTAB	VSTAT:B	LSTAT:B	LSTAT:B	LSTAT:B	LSTAT:B	LSTAT:B
	VATPB	ATPB	LBATP	LBATP	LBATP	LBATP	LBATP
	VSTAG	VSTAT:I	LSTAT:I	LSTAT:I	LSTAT:I	LSTAT:I	LSTAT:I
	VATPG	ATPI	LIATP	LIATP	LIATP	LIATP	LIATP
VINID							
VMO			V1:HR	V1:HR	V1:HR	V1:HR	V1:HR
VDA			V1:MN	V1:MN	V1:MN	V1:MN	V1:MN
VYR			V1:AP	V1:AP	V1:AP	V1:AP	V1:AP
VFSTA			V2	V2	V2	V2	V2
	V1	V1	V3	V3	V3	V3	V3
	V2	V2	V4	V4	V4	V4	V4
	V3	V3	V5	V5	V5	V5	V5
	V4	V4	V6	V6	V6	V6	V6
			V6A	V6A	V6A	V6A	V6A
	V6	V6	V7	V7	V7	V7	V7
	V7	V7	V8	V8	V8	V8	V8
			V8A	V8A			
	V8:M	V10:M	V10:MO	V10:MO	V10:MO	V10:MO	V10:MO
	V8:D	V10:D	V10:DA	V10:DA	V10:DA	V10:DA	V10:DA
	V8:Y	V10:Y	V10:YR	V10:YR	V10:YR	V10:YR	V10:YR
		V11	V11	V11	V11	V11	V11
		V12					
		V13					
	V11	V14	V13:MO	V13:MO	V13:MO	V13:MO	V13:MO
			V13:DA	V13:DA	V13:DA	V13:DA	V13:DA
			V13:YR	V13:YR	V13:YR	V13:YR	V13:YR
			V14	V14	V14	V14	V14A
	V18	V27	V15	V15	V15	V15	V14B
			V16	V16	V16	V16	V15
			V17:HR	V17:HR	V17:HR	V17:HR	V16
			V17:MN	V17:MN	V17:MN	V17:MN	V17:HR
			V17:AP	V17:AP	V17:AP	V17:AP	V17:MN
	V13	V16	V18	V18	V18	V18	V17:AP
	V14	V17	V19A	V19A	V19A	V19A	V18
	V15	V18	V19B	V19B	V19B	V19B	V19A
	V16	V19	V20	V20	V20	V20	V19B
		V21					V20
	V19	V28	V21	V21	V21	V21	V21
			V21A	V21A	V21A	V21A	V21
		V23	V22	V22	V22	V22	V21A
		V25	V23	V23	V23	V23	V22
			V24	V24	V24	V24	V23
	V21	V30	V25	V25	V25	V25	V24
VD	V22	V31	V26	V26	V26	V26	V25
V1							V26
	V23	V32					
		V33					
			V27	V27	V27	V27	V27
V2:A	V24	V34	V28	V28	V28	V28	V27
V2:B							V28
V2:C							
	V25	V35	V29	V29	V29	V29	V29
	V26	V36	V30	V30	V30	V30	V30
					V30A	V30A	V30A
					V31	V31	V31
V3	V27	V37	V31	V31	V31A	V31A	V31A
V4	V28	V38	V32	V32	V32	V32	V32
V5	V29	V39	V33	V33	V33	V33	V33

<u>LL11</u>	<u>LL21</u>	<u>LL12</u>	<u>LL22</u>	<u>LL13</u>	<u>LL23</u>	<u>LL14</u>	<u>LL24</u>
V6	V30 A22 V31 VC31:1 V32 VC31:2 VC31:3 VC31:4 VC31:M5 VC31:Y5 VC31:6 VC31:7	V40 A21 V41 V42 V49 V43 V44 V45 V46:M V46:Y V47 V48	V34 V35 V35A V36 V37 V38 V39 V40 V41 V42:MO V42:YR V43 V44 V45 V46	V34 V35 V35A V36 V37 V38 V39 V40 V41 V42:MO V42:YR V43 V44 V45 V46	V34 V35 V35A V36 V37 V38 V39 V40 V41 V42:MO V42:YR V43 V44 V45 V45A V46	V34 V35 V35A V36 V37 V38 V39 V40 V41 V42:MO V42:YR V43 V44 V45 V45A V46	V34 V35 V35A V36 V37 V38 V39 V40 V41 V42:MO V42:YR V43 V44 V45 V45A V46
H4 H5 H6 H7 A16 V7 V8 V9 V20 V12 V14 V16 V18 V22	 H15 { H16 I2 H17 I3 A23	H20 { H21 J2 H22 J3 A22	 V47 V48 V48A V49 V50 V51 V52 V56 V58	 V47 V48 V48A V49 V50 V51 V52 V56 V58	 V47 V48 V48A V49 V50 V51 V52 V56 V58	 V47 V48 V48A V49 V50 V51 V52 V56 V58	 V47 V48A V49 V50 V51 V52 V56 V58
					V62A:1-2 V62B:1-2 V62C:1-2 V62D:1-2	V62A:1-2 V62B:1-2 V62C:1-2 V62D:1-2	V62A:1-2 V62B:1-2 V62C:1-2 V62D:1-2
			V63:HR V63:MN V63:AP A1 A3 AA AB AC AD AE	V63:HR V63:MN V63:AP A1 A1 A2A A2B A2C A2D A2E		A1 A1 A1 A1	A1 A2 A1 A1
AA AB AC AD AE AF AHRBG AMNBG AAPBG A3 A2 A1:A-B A4:A A4:B A4:C A4:D A4:E A4:F A4:G	AA AB AC AD AE AF AHRBG AMNBG AAPBG A1 A2:M A2:Y A4 A3 A5:A A5:B A5:C A5:D A5:E A5:F A5:G A5:H	AHRBG AMNBG AAPBG A1 A2:M A2:Y A4 A5:M A5:Y A6:A A6:B A6:C A6:D A6:E A6:F A6:G A6:H	A3:HR A3:MN A3:AP A4 A5:MO A5:YR A6:MO A6:YR A7A A7B A7C A7D A7E A7F A7G A7H	A3:HR A3:MN A3:AP A4 A5:MO A5:YR A6:MO A6:YR A7A A7B A7C A7D A7E A7F A7G A7H	A4 A5:MO A5:YR A6:MO A6:YR A7A A7B A7C A7D A7E A7F A7G A7H	A4 A5:MO A5:YR A6:MO A6:YR A7A A7B A7C A7D A7E A7F A7G A7H	A4 A5:MO A5:YR A6:MO A6:YR A7A A7B A7C A7D A7E A7F A7G A7H

<u>LL11</u>	<u>LL21</u>	<u>LL12</u>	<u>LL22</u>	<u>LL13</u>	<u>LL23</u>	<u>LL14</u>	<u>LL24</u>
A4:H	A5:I	A6:I	A7I	A7I	A7I	A7I	A7I
A5	A6	A7	A8	A8	A8	A8	A8
A6	A7	A8	A9	A9	A9	A9	A9
A7	A8	A9	A10	A10	A10	A10	A10
			A11	A11	A11	A11	A11
A8	A9	A10	A12	A12	A12	A12	A12
A9	A10	A11	A13	A13	A13	A13	A13
A10	A11	A12	A14	A14	A14	A14	A14
	A12	A13	A15	A15	A15	A15	A15
		A14	A16	A16	A16	A16	A16
A11	A13	A15					
		A16					
A12	A14	A17					
		A18					
A13	A15	A19					
A14	A16						
	A17		A17	A17	A17	A17	A17
			A18A-W	A18A-W	A18A-W	A18A-W	A18A-W
			A19	A19	A19	A19	A19
A15	A21	A20					
A17	A24						
A18	A25						
		AHREN	A20:HR	A20:HR			
		AMNEN	A20:MN	A20:MN			
		AAPEN	A20:AP	A20:AP			
AMST	ASTA	ASTAT	ASTAT	ASTAT			
BA	BX	BX	B1	B1	B1	B1	B1
		BA	B2A	B2A			
BB	BA	BB	B2B	B2B			
BC	BB	BC	B2C	B2C			
BD	BC	BD	B2D	B2D			
BE	BD	BE	B2E	B2E			
BF	BE						
BG	BF						
		BHRBG	B3:HR	B3:HR			
		BMNBG	B3:MN	B3:MN			
		BAPBG	B3:AP	B3:AP			
			B4	B4	B4	B4	B4
B3:A-E	B8:A-E	B5:A-E					
B9	B18	B14	B5	B5	B5	B5	B5
B11	B19	B15	B6	B6	B6	B6	B6
B12	B20	B16	B7	B7	B7	B7	B7
					B7A	B7A	B7A
B13	B21	B17	B8	B8	B8	B8	B8
B15	B23	B19					
B16:A	B24:A	B20:A	B9A	B9A	B9A	B9A	B9A
B16:B	B24:B	B20:B	B9B	B9B	B9B	B9B	B9B
B16:C	B24:C	B20:C	B9C	B9C	B9C	B9C	B9C
B16:D	B24:D	B20:D	B9D	B9D	B9D	B9D	B9D
B16:E	B24:E	B20:E	B9E	B9E	B9E	B9E	B9E
B16:F	B24:F	B20:F	B9F	B9F	B9F	B9F	B9F
B16:G	B24:G	B20:G	B9G	B9G	B9G	B9G	B9G
B16:H	B24:H	B20:H	B9H	B9H	B9H	B9H	B9H
B16:I	B24:I	B20:I	B9I	B9I	B9I	B9I	B9I
B16:J	B24:J	B20:J	B9J	B9J	B9J	B9J	B9J
B16:K	B24:K	B20:K	B9K	B9K	B9K	B9K	B9K
B16:L	B24:L	B20:L	B9L	B9L	B9L	B9L	B9L
B16:M	B24:M	B20:M	B9M	B9M	B9M	B9M	B9M
	B24:N	B20:N	B9N	B9N	B9N	B9N	B9N
B16:N	B24:O	B20:O	B9O	B9O	B9O	B9O	B9O
B16:O	B24:P	B20:P	B9P	B9P	B9P	B9P	B9P
B17	B25	B21	B10	B10	B10	B10	B10
B18	B26	B22	B11	B11	B11	B11	B11
B19	B27	B23	B12	B12	B12	B12	B12
B24	B32	B28					

<u>LL11</u>	<u>LL21</u>	<u>LL12</u>	<u>LL22</u>	<u>LL13</u>	<u>LL23</u>	<u>LL14</u>	<u>LL24</u>
B27:1-2	B35:1-2	B31:1-2	B13	B13	B13	B13	B13
B25:1-2	B33:1-2	B29:1-2	B14:1-2	B14:1-2	B14:1-2	B14:1-2	B14:1-2
B26:1-2	B34:1-2	B30:1-2	B15:1-2	B15:1-2	B15:1-2	B15:1-2	B15:1-2
B28:1-2	B36:1-2	B32:1-2	B16:1-2	B16:1-2	B16:1-2	B16:1-2	B16:1-2
B29:1-2	B37:1-2	B33:1-2	B17:1-2	B17:1-2	B17:1-2	B17:1-2	B17:1-2
			B18	B18	B18	B18	B18
B20	B28	B24	B19	B19	B19	B19	B19
B21:1-2	B29:1-2	B25:1-2	B20:1-2	B20:1-2	B20:1-2	B20:1-2	B20:1-2
B22:1-2	B30:1-2	B26:1-2	B20A:1-2	B20A:1-2	B20A:1-2	B20A:1-2	B20A:1-2
B23:A1-2	B31:1-2A	B27:A1-2					
B23:B1-2	B31:1-2B	B27:B1-2					
B23:C1-2	B31:1-2C	B27:C1-2					
	B31:1-2D	B27:D1-2					
B23:D1-2	B31:1-2E	B27:E1-2					
B23:E1-2	B31:1-2F	B27:F1-2					
B23:F1-2	B31:1-2G	B27:G1-2					
B23:G1-2	B31:1-2H	B27:H1-2					
	B31:1-2I	B27:I1-2					
	B31:1-2J	B27:J1-2					
B23:H1-2	B31:1-2K	B27:K1-2					
	B38	B34	B21	B21	B21	B21	B21
	B39:1-5						
		B35	B22	B22	B22	B22	B22
			B22A	B22A	B22A	B22A	B22A
	B2	B2	B23	B23	B23	B23	B23
	B3	B3	B24	B24	B24	B24	B24
	B4						
	B5						
	B6						
B2	B1	B1	B25	B25	B25	B25	B25
B10	B7	B4	B26	B26	B26	B26	B26
	B15	B11	B26A	B26A	B26A	B26A	B26A
B14	B22	B18	B27	B27	B27	B27	B27
B8	B16	B12	B28	B28	B28	B28	B28
			B29	B29	B29	B29	B29
B7	B13	B10	B30	B30	B30	B30	B30
	B14						
B4	B9	B6	B31	B31	B31	B31	B31
B6	B12	B9	B34:1-2	B34:1-2	B34:1-2	B34:1-2	B34:1-2
			B35	B35	B35	B35	B35
B1	B17	B13:A-B	B36	B36	B36	B36	B36
B30	B40	B36	B37	B37	B37	B37	B37
B31	B41	B37	B38	B38	B38	B38	B38
BHREN	BHREN	BHREN	B39:HR	B39:HR			
BMNEN	BMNEN	BMNEN	B39:MN	B39:MN			
BAPEN	BAPEN	BAPEN	B39:AP	B39:AP			
BMST	BSTA	BSTAT	BSTAT	BSTAT			
		CA	C1A	C1A			
CA	CA	CB	C1B	C1B			
CB	CB	CC	C1C	C1C			
CC	CC	CD	C1D	C1D			
CD	CD	CE	C1E	C1E			
CE	CE						
CF	CF						
CHRBG	CHRBG	CHRBG	C2:HR	C2:HR			
CMNBG	CMNBG	CMNBG	C2:MN	C2:MN			
CAPBG	CAPBG	CAPBG	C2:AP	C2:AP			
		C1	C3	C3	C3	C3	C3
		C2:M	C4	C4	C4	C4	C4
		C2:Y					
		C3:A	C5A	C5A	C5A	C5A	C5A
		C3:B	C5B	C5B	C5B	C5B	C5B
		C4	C6	C6	C6	C6	C6
		C5	C6A	C6A	C6A	C6A	C6A
		C6	C7	C7	C7	C7	C7
		C11	C8	C8	C8	C8	C8
		C7	C9	C9	C9	C9	C9
		C8	C10	C10	C10	C10	C10
		C9:M	C11	C11	C11	C11	C11

<u>LL11</u>	<u>LL21</u>	<u>LL12</u>	<u>LL22</u>	<u>LL13</u>	<u>LL23</u>	<u>LL14</u>	<u>LL24</u>
		C9:Y		G12A	C12A	C12A	C12A
		C10:A	C12A	G12B	C12B	C12B	C12B
		C10:B	C12B	C13	C13	C13	C13
		C12	C13	G14	C14	C14	C14
		C13	C14	C15	C15	C15	C15
		C14	C15	C16	C16	C16	C16
		C15	C16	C17	C17	C17	C17
		C16	C17				
		C17					
		C18:M	C18	C18	C18	C18	C18
		C18:Y					
		C19	C19	C19	C19	C19	C19
		C20	C20	C20	C20	C20	C20
		C21	C21	C21	C21	C21	C21
		C22:A	C22A	C22A	C22A	C22A	C22A
		C22:B	C22B	C22B	C22B	C22B	C22B
		C23	C23	C23	C23	C23	C23
		C24	C24	C24	C24	C24	C24
		C25	C25	C25	C25	C25	C25
		C26	C26	C26	C26	C26	C26
		C27	C27	C27	C27	C27	C27
		C28	C28	C28	C28	C28	C28
		C29	C29	C29	C29	C29	C29
		C30	C30	C30	C30	C30	C30
		C31	C31	C31	C31	C31	C31
		C32	C32	C32	C32	C32	C32
		C33	C33	C33	C33	C33	C33
		C34	C34	C34	C34	C34	C34
		C35	C35	C35	C35	C35	C35
		C36	C36	C36	C36	C36	C36
		C37	C37	C37	C37	C37	C37
		C38	C38	C38	C38	C38	C38
			C39	C39	C39	C39	C39
			C40	C40	C40	C40	C40
			C41	C41	C41	C41	C41
			C42	C42	C42	C42	C42
			C43	C43	C43	C43	C43
			C44	C44	C44	C44	C44
			C45	C45	C45	C45	C45
	C1	C40	C45	C45	C45	C45	C45
C2							
C35		C41	C46	C46	C46	C46	C46
		C42					
C46	C98	C43	C47	C47	C47	C47	C47
		D44					
			C48	C48	C48	C48	C48
C37	C2	C45	C49	C49	C49	C49	C49
		C46					
		C47	C50	C50	C50	C50	C50
		C48	C51	C51	C51	C51	C51
C4		C49	C52	C52	C52	C52	C52
C3		C50	C53	C53	C53	C53	C53
		C9:1	C54:1	C54:1	C54:1	C54:1	C54:1
C1		C7:1					
		C8:1	C55:1	C55:1	C55:1	C55:1	C55:1
C6		C10:1	C56:1	C56:1	C56:1	C56:1	C56:1
		C16:1	C57:1	C57:1	C57:1	C57:1	C57:1
		C9:2-5	C54:2-5	C54:2-5	C54:2-5	C54:2-5	C54:2-5
		C7:2-5					
		C8:2-5	C55:2-5	C55:2-5	C55:2-5	C55:2-5	C55:2-5
		C10:2-5	C56:2-5	C56:2-5	C56:2-5	C56:2-5	C56:2-5
		C11:2-4	C54:2-4	C57:2-4	C57:2-4	C57:2-4	C57:2-4
C7		C12:1					
C8		C13:1					
C9		C14:1					
C10:A-I		C15:1A-I					
C19							
		C56					
C30	C23						

<u>LL11</u>	<u>LL21</u>	<u>LL12</u>	<u>LL22</u>	<u>LL13</u>	<u>LL23</u>	<u>LL14</u>	<u>LL24</u>
		C58	C58	C58	C58	C58	C58
	C24	C59	C59	C59	C59	C59	C59
		C57	C60	C60	C60	C60	C60
	C17	C60	C61	C61	C61	C61	C61
	C18	C61	C62	C62	C62	C62	C62
	C19	C62	C63	C63	C63	C63	C63
	C20	C63					
	C21:A-E1	C64:A-E					
	C22	C65					
		C66					
		C67	C64	C64	C64	C64	C64
		C68	C65	C65	C65	C65	C65
C31*	C25	C69	C66	C66	C66	C66	C66
	C116	D63	C67	C67	C67	C67	C67
	C117	D64	C68	C68	C68	C68	C68
C31*	C118	D65	C69	C69	C69	C69	C69
C5	C26	C70	C70	C70	C70	C70	C70
	G45	C72	C71	C71	C71	C71	C71
			C72	C72	C72	C72	C72
	C27	C71	C73	C73	C73	C73	C73
	C29:1	C74:1	C75:1	C75:1	C75:1	C75:1	C75:1
	C30:1	C75:1	C76:1	C76:1	C76:1	C76:1	C76:1
	C32:1	C76:1	C77:1	C77:1	C77:1	C77:1	C77:1
	C33:1	C77:1	C78:1	C78:1	C78:1	C78:1	C78:1
C21:1-5	C29:2-6	C74:2-6	C75:2-6	C75:2-6	C75:2-6	C75:2-6	C75:2-6
C22:1-5	C30:2-6	C75:2-6	C76:2-6	C76:2-6	C76:2-6	C76:2-6	C76:2-6
	C31:3-6						
C23:1-5	C32:2-6	C76:2-6	C77:2-6	C77:2-6	C77:2-6	C77:2-6	C77:2-6
C24:1-5	C33:2-6	C77:2-6	C78:2-6	C78:2-6	C78:2-6	C78:2-6	C78:2-6
C25:1-2	C34:1-2	C78:1-2	C79:1-2	C79:1-2	C79:1-2	C79:1-2	C79:1-2
C26:1-2							
	C35:1-2	C79:1-2	C80:1-2	C80:1-2	C80:1-2	C80:1-2	C80:1-2
C27:1-2	C36:1-2	C80:1-2	C81:1-2	C81:1-2	C81:1-2	C81:1-2	C81:1-2
	C37:1-2						
C28:1-2	C38:1-2	C81:1-2	C82:1-2	C82:1-2	C82:1-2	C82:1-2	C82:1-2
C29:1	C39:1	C82:1	C83	C83	C83	C83	C83
		C83	C84	C84	C84	C84	C84
		C84	C85	C85	C85	C85	C85
		C85	C86	C86	C86	C86	C86
	C40	C86	C87	C87	C87	C87	C87
	C41	C87	C88	C88	C88	C88	C88
	C42	C88	C89	C89	C89	C89	C89
	C43	C89	C90	C90	C90	C90	C90
	C46						
	C47:A-G						
	C48	C90	C91	C91	C91	C91	C91
	C49	C91	C92	C92	C92	C92	C92
	C50	C92	C93	C93	C93	C93	C93
		CHREN	C94:HR	C94:HR			
		CMNEN	C94:MN	C94:MN			
		CAPEN	C94:AP	C94:AP			
		CSTAT	CSTAT	CSTAT			
		DA	D1A	D1A			
		DB	D1B	D1B			
		DC	D1C	D1C			
		DD	D1D	D1D			
		DE	D1E	D1E			
		DHRBG	D2:HR	D2:HR			
		DMNBG	D2:MN	D2:MN			
		DAPBG	D2:AP	D2:AP			
	C51	D1:A-D	D3	D3	D3	D3	D3
	C52						
	C53	D2	D4	D4	D4	D4	D4
			D5	D5			
			D6	D6			
			D7A	D7A	D7A	D7A	D7A

*This variable is listed more than once in this column because its corresponding variables are not numerically adjacent.

<u>LL11</u>	<u>LL21</u>	<u>LL12</u>	<u>LL22</u>	<u>LL13</u>	<u>LL23</u>	<u>LL14</u>	<u>LL24</u>
			D7B	D7B	D7B	D7B	D7B
			D8	D8	D7C	D7C	D7C
	C55:B		D9A	D9A	D8	D8	D8
	C55:A		D9B	D9B	D9A	D9A	D9A
			D9C	D9C	D9B	D9B	D9B
			D9D	D9D	D9C	D9C	D9C
	C55:C		D9E	D9E	D9D	D9D	D9D
			D9F	D9F	D9E	D9E	D9E
			D10	D10	D9F	D9F	D9F
C11	C56	D5	D10	D10	D10	D10	D10
	C57:A		D11A	D11A	D11A	D11A	D11A
	C57:B	D6:A	D11B	D11B	D11B	D11B	D11B
	C57:C	D6:B	D11C	D11C	D11C	D11C	D11C
	C57:D	{ D6:C	O11D	D11D	D11D	D11D	D11D
		{ D6:D	D11E	D11E	D11E	D11E	D11E
	C57:E	D6:E	D12	D12	D12	D12	D12
	C58	D7	D13	D13	D13	D13	D13
C12	C59	D8	D13	D13	D13	D13	D13
	C60:A		D14A	D14A	D14A	D14A	D14A
	C60:B	D9:A	D14B	D14B	D14B	D14B	D14B
	C60:C	D9:B	D14C	D14C	D14C	D14C	D14C
	C60:D	{ D9:C	D14D	D14D	D14D	D14D	D14D
		{ D9:D	D14E	D14E	D14E	D14E	D14E
	C60:E	D9:E	D15	D15	D15	D15	D15
C13	C61	D10	D15	D15	D15	D15	D15
	C62:A		D16A	D16A	D16A	D16A	D16A
	C62:B	D11:A	D16B	D16B	D16B	D16B	D16B
	C62:C	D11:B	D16C	D16C	D16C	D16C	D16C
	C62:D	{ D11:C	D16D	D16D	D16D	D16D	D16D
		{ D11:D	D16E	D16E	D16E	D16E	D16E
	C62:E	D11:E	D17	D17	D17	D17	D17
C14	C63	D12	D17	D17	D17	D17	D17
C15	C64						
C16							
		D13	D18	D18	D18	D18	D18
	C65:A-E						
C17	C66	D14	D19	D19	D19	D19	D19
	C67:A		D20A	D20A	D20A	D20A	D20A
	C67:B	D15:A	D20B	D20B	D20B	D20B	D20B
	C67:C	D15:B	D20C	D20C	D20C	D20C	D20C
	C67:D	{ D15:C	D20D	D20D	D20D	D20D	D20D
		{ D15:D	D20E	D20E	D20E	D20E	D20E
	C67:E	D15:E	D21	D21	D21	D21	D21
	C68	D16					
	C69:A		D22A	D22A	D22A	D22A	D22A
	C69:B	D17:A	D22B	D22B	D22B	D22B	D22B
	C69:C	D17:B	D22C	D22C	D22C	D22C	D22C
	C69:D	{ D17:C	D22D	D22D	D22D	D22D	D22D
		{ D17:D	D22E	D22E	D22E	D22E	D22E
	C69:E	D17:E	D23	D23	D23	D23	D23
C18	C70	D18	D23	D23	D23	D23	D23
	C71:A		D24A	D24A	D24A	D24A	D24A
	C71:B	D19:A	D24B	D24B	D24B	D24B	D24B
	C71:C	D19:B	D24C	D24C	D24C	D24C	D24C
	C71:D	{ D19:C	D24D	D24D	D24D	D24D	D24D
		{ D19:D	D24E	D24E	D24E	D24E	D24E
	C71:E	D19:E	D25	D25	D25	D25	D25
	C72	D20	D26	D26	D26	D26	D26
C33	C74	D22	D27	D27	D27	D27	D27
C32	C73	D21	D28	D28	D28	D28	D28
C34	C75	D23	D29	D29	D29	D29	D29
	C76	D24	D30	D30	D30	D30	D30
	C78	D26	D31	D31	D31	D31	D31
	C77	D25	D32	D32	D32	D32	D32
	C79	D27					
	C80						
	C81	D28	D33	D33	D33	D33	D33
C36							
C38	C82	D29	D34	D34	D34	D34	D34

<u>LL11</u>	<u>LL21</u>	<u>LL12</u>	<u>LL22</u>	<u>LL13</u>	<u>LL23</u>	<u>LL14</u>	<u>LL24</u>
	C83	D30:A-B	D35A-B	D35A-B	D35A-B	D35A-B	D35A-B
	C84	D31	D36	D36	D36	D36	D36
C39	C85	D32	D37	D37	D37	D37	D37
	C86	D33:A-B	D38A-B	D38A-B	D38A-B	D38A-B	D38A-B
C40	C87	D34	D39	D39	D39	D39	D39
	C88	D35	D40	D40	D40	D40	D40
C41	C89	D36	D41	D41	D41	D41	D41
	C90	D37	D42	D42	D42	D42	D42
C42	C91	D38	D43	D43	D43	D43	D43
	C92	D39	D43A	D43A	D43A	D43A	D43A
	C93		D44	D44	D44	D44	D44
C43							
C44							
C45	C94	D40	D45	D45	D45	D45	D45
	C95	D41	D46	D46	D46	D46	D46
	C96	D42	D47	D47	D47	D47	D47
	C97	D43	D48	D48	D48	D48	D48
	C99	D45	D49	D49	D49	D49	D49
		D46	D50	D50	D50	D50	D50
C47	C100	D47	D51	D51	D51	D51	D51
	C101	D48	D52	D52	D52	D52	D52
C48	C102	D49	D53	D53	D53	D53	D53
C49	C103	D50	D54	D54	D54	D54	D54
C50	C104	D51	D55	D55	D55	D55	D55
C51	C105	D52	D56	D56	D56	D56	D56
C52							
C53							
	C106	D53	D57	D57	D57	D57	D57
C54	C107	D54	D58	D58	D58	D58	D58
	C108	D55	D59	D59	D59	D59	D59
C55	C109	D56	D60	D60	D60	D60	D60
C56	C110	D57	D61	D61	D61	D61	D61
	C111	D58	D62	D62	D62	D62	D62
	C112	D59	D63	D63	D63	D63	D63
	C113	D60					
	C114	D61	D64	D64	D64	D64	D64
	C115	D62	D65	D65	D65	D65	D65
			D66	D66	D66	D66	D66
	C119	D66	D67	D67	D67	D67	D67
	C120	D67	D68	D68	D68	D68	D68
	C121	D68	D69	D69	D69	D69	D69
	C122	D69					
	C123:A-E	D70:A-E					
	C124	D71					
		D72	D70	D70	D70	D70	D70
	C125		D71	D71	D71	D71	D71
	C126		D72	D72	D72	D72	D72
	C127		D73	D73	D73	D73	D73
	C128		D74	D74	D74	D74	D74
	C129		D75	D75	D75	D75	D75
	C130		D76	D76	D76	D76	D76
	C131:A-F		D77A-F	D77A-F	D77A-F	D77A-F	D77A-F
	C132		D78A-F	D78A-F	D78A-F	D78A-F	D78A-F
	C133		D79	D79	D79	D79	D79
	C134		D80	D80	D80	D80	D80
	C135		D81	D81	D81	D81	D81
C57	C136						
C58	C137	D73					
		D74					
C59	C138	D75					
C60	C139	D76					
C61	C140	D77	D82	D82	D82	D82	D82
C62:A	C141:C	D78:A	D83A	D83A	D83A	D83A	D83A
C62:B	C141:A						
C62:C	C141:B						
C62:D	C141:D	D78:B	D83B	D83B	D83B	D83B	D83B
	C141:E	D78:C	D83C	D83C	D83C	D83C	D83C
C62:E	C141:F	D78:D	D83D	D83D	D83D	D83D	D83D

<u>LL11</u>	<u>LL21</u>	<u>LL12</u>	<u>LL22</u>	<u>LL13</u>	<u>LL23</u>	<u>LL14</u>	<u>LL24</u>
C62:F C62:G	C141:G C141:H C141:I C141:J C141:K	D78:E D78:F D78:G	D83E D83F D83G D83H	D83E D83F D83G D83H	D83E D83F D83G D83H	D83E D83F D83G D83H	D83E D83F D83G D83H
C62:H		D78:H	D84:HR D84:MN D84:AP DSTAT	D84:HR D84:MN D84:AP DSTAT			
CMST	CSTA	DSTAT	DSTAT	DSTAT			
DA DB DC DD DE DF	DA DB DC DD DE DF	EA EB EC ED EE	E1A E1B E1C E1D E1E	E1A E1B E1C E1D E1E			
			E2:HR E2:MN E2:AP E3 E3A E4 E4A E5A-G	E2:HR E2:MN E2:AP E3 E3A E4 E4A E5A-G	E3 E3A E4 E4A E5A-G	E3 E3A E4 E4A E5A-G	E3 E3A E4 E4A E5A-G
D19 D20	D35 D36	E20 E21 E22 E23 E24:A-G	E6 E7 E8 E9 E10A E10B E10C E10D E10E	E6 E7 E8 E9 E10A E10B E10C E10D E10E	E6 E7 E8 E9 E10A E10B E10C E10D E10E	E6 E7 E8 E9 E10A E10B E10C E10D E10E	E6 E7 E8 E9 E10A E10B E10C E10D E10E
D21:A-G D22:A-E D10 D12	D37 D38:A-G D39:A-E D13 D15	E1 E2					
D11:A D11:B D11:C D11:D D11:E D11:F D11:G D11:H	D14:A D14:B D14:C D14:D D14:E D14:F } D14:G } D14A	E3 E4:A E4:B E4:C E4:D E4:E					
D13B:1-6	D16:1-5 { D19:1-5 } D30 D31	E7	E13	E13	E13	E13	E13
D14:1-6 D14A:1-6	D20:1-5 { D21:1-5 } D32 D33	E8 E9	E14 E15	E14 E15	E14 E15	E14 E15	E14 E15
D15:1-6	D22:1-5	E10 E11	E16	E16	E16	E16	E16
D16:1-6 D17:1-6	D23:1-5 { D24:1-5 } D34	E12 E13	E17 E18	E17 E18	E17 E18	E17 E18	E17 E18
D18:1-6	D25:1-5	E14 E17:A-C E18 E19:A-C E15 E16	E19 E20A-C E21 E22A-C E23 E24	E19 E20A-C E21 E22A-C E23 E24	E19 E20A-C E21 E22A-C E23 E24	E19 E20A-C E21 E22A-C E23 E24	E19 E20A-C E21 E22A-C E23 E24
D18A:1-6	D26:1-5 D27	E16					
D23:1-5 D24:1-5 D25:1-5 D25A:1-5 D23:6 D24:6 D25:6 D25A:6 D23:8 D24:8 D25:8 D25A:8 D23:7	D40:1-5 D41:1-5 D42:1-5 D43:1-5 D44:6 D45:6 D46:6 D47:6 D44:8 D45:8 D46:8 D47:8 D44:7	E25:1-5 E26:1-5 E27:1-5 E28:1-5 E29:6 E30:6 E31:6 E32:6 E29:8 E30:8 E31:8 E32:8 E29:7	E25:1-5 E26:1-5 E27:1-5 E28:1-5 E25:6 E26:6 E27:6 E28:6 E25:7 E26:7 E27:7 E28:7 E25:8	E25:1-5 E26:1-5 E27:1-5 E28:1-5 E25:6 E26:6 E27:6 E28:6 E25:7 E26:7 E27:7 E28:7 E25:8	E25:1-5 E26:1-5 E27:1-5 E28:1-5 E25:6 E26:6 E27:6 E28:6 E25:7 E26:7 E27:7 E28:7 E25:8	E25:1-5 E26:1-5 E27:1-5 E28:1-5 E25:6 E26:6 E27:6 E28:6 E25:7 E26:7 E27:7 E28:7 E25:8	E25:1-5 E26:1-5 E27:1-5 E28:1-5 E25:6 E26:6 E27:6 E28:6 E25:7 E26:7 E27:7 E28:7 E25:8

<u>LL11</u>	<u>LL21</u>	<u>LL12</u>	<u>LL22</u>	<u>LL13</u>	<u>LL23</u>	<u>LL14</u>	<u>LL24</u>
D24:7	D45:7	E30:7	E26:8	E26:8	E26:8	E26:8	E26:8
D25:7	D46:7	E31:7	E27:8	E27:8	E27:8	E27:8	E27:8
D25A:7	D47:7	E32:7	E28:8	E28:8	E28:8	E28:8	E28:8
D23:9	D44:9	E29:9	E25:9	E25:9	E25:9	E25:9	E25:9
D24:9	D45:9	E30:9	E26:9	E26:9	E26:9	E26:9	E26:9
D25:9	D46:9	E31:9	E27:9	E27:9	E27:9	E27:9	E27:9
D25A:9	D47:9	E32:9	E28:9	E28:9	E28:9	E28:9	E28:9
D23:10	D44:10	E29:10	E25:10	E25:10	E25:10	E25:10	E25:10
D24:10	D45:10	E30:10	E26:10	E26:10	E26:10	E26:10	E26:10
D25:10	D46:10	E31:10	E27:10	E27:10	E27:10	E27:10	E27:10
D25A:10	D47:10	E32:10	E28:10	E28:10	E28:10	E28:10	E28:10
D23:12	D48:11	E33:11	E25:11	E25:11	E25:11	E25:11	E25:11
D24:12	D49:11	E34:11	E26:11	E26:11	E26:11	E26:11	E26:11
D25:12	D50:11	E35:11	E27:11	E27:11	E27:11	E27:11	E27:11
D25A:12	D51:11	E36:11	E28:11	E28:11	E28:11	E28:11	E28:11
D23:13	D48:12	E33:12	E25:12	E25:12	E25:12	E25:12	E25:12
D24:13	D49:12	E34:12	E26:12	E26:12	E26:12	E26:12	E26:12
D25:13	D50:12	E35:12	E27:12	E27:12	E27:12	E27:12	E27:12
D25A:13	D51:12	E36:12	E28:12	E28:12	E28:12	E28:12	E28:12
D23:14	D48:13	E33:13	E25:13	E25:13	E25:13	E25:13	E25:13
D24:14	D49:13	E34:13	E26:13	E26:13	E26:13	E26:13	E26:13
D25:14	D50:13	E35:13	E27:13	E27:13	E27:13	E27:13	E27:13
D25A:14	D51:13	E36:13	E28:13	E28:13	E28:13	E28:13	E28:13
		E33:14	E25:14	E25:14	E25:14	E25:14	E25:14
		E34:14	E26:14	E26:14	E26:14	E26:14	E26:14
		E35:14	E27:14	E27:14	E27:14	E27:14	E27:14
		E36:14	E28:14	E28:14	E28:14	E28:14	E28:14
			E29	E29	E29	E29	E29
			E30	E30	E30	E30	E30
D26	D52	E37	E31	E31	E31	E31	E31
D27:1	D53:1	E38:1	E32:1	E32:1	E32:1	E32:1	E32:1
D28:1	D54:1	E39:1	E33:1	E33:1	E33:1	E33:1	E33:1
D30:A1	D56:1A	E41:A1	E34A:1	E34A:1	E34A:1	E34A:1	E34A:1
D30:B1	D56:1B	E41:B1	E34B:1	E34B:1	E34B:1	E34B:1	E34B:1
D30:C1	D56:1C	E41:C1	E34C:1	E34C:1	E34C:1	E34C:1	E34C:1
D30:D1	D56:1D	E41:D1	E34D:1	E34D:1	E34D:1	E34D:1	E34D:1
D29:A1	D55:1A	E40:A1	E35A:1	E35A:1	E35A:1	E35A:1	E35A:1
			E35B:1	E35B:1	E35B:1	E35B:1	E35B:1
D29:B1	D55:1B	E40:B1	E35C:1	E35C:1	E35C:1	E35C:1	E35C:1
D29:C1	D55:1C	E40:C1	E35D:1	E35D:1	E35D:1	E35D:1	E35D:1
D29A:1							
D27:2	D53:2	E38:2	E32:2	E32:2	E32:2	E32:2	E32:2
D28:2	D54:2	E39:2	E33:2	E33:2	E33:2	E33:2	E33:2
D30:A2	D56:2A	E41:A2	E34A:2	E34A:2	E34A:2	E34A:2	E34A:2
D30:B2	D56:2B	E41:B2	E34B:2	E34B:2	E34B:2	E34B:2	E34B:2
D30:C2	D56:2C	E41:C2	E34C:2	E34C:2	E34C:2	E34C:2	E34C:2
D30:D2	D56:2D	E41:D2	E34D:2	E34D:2	E34D:2	E34D:2	E34D:2
D29:A2	D55:2A	E40:A2	E35A:2	E35A:2	E35A:2	E35A:2	E35A:2
			E35B:2	E35B:2	E35B:2	E35B:2	E35B:2
D29:B2	D55:2B	E40:B2	E35C:2	E35C:2	E35C:2	E35C:2	E35C:2
D29:C2	D55:2C	E40:C2	E35D:2	E35D:2	E35D:2	E35D:2	E35D:2
D27:3	D53:3	E38:3	E32:3	E32:3	E32:3	E32:3	E32:3
D28:3	D54:3	E39:3	E33:3	E33:3	E33:3	E33:3	E33:3
D29:A3	D55:3A	E40:A3	E35A:3	E35A:3	E35A:3	E35A:3	E35A:3
			E35B:3	E35B:3	E35B:3	E35B:3	E35B:3
D29:B3	D55:3B	E40:B3	E35C:3	E35C:3	E35C:3	E35C:3	E35C:3
D29:C3	D55:3C	E40:C3	E35D:3	E35D:3	E35D:3	E35D:3	E35D:3
D27:4							
D28:4							
D29:A4							
D29:B4							
D29:C4							
D27:5A	D53:4A	E38:A4	E32A:4	E32A:4	E32A:4	E32A:4	E32A:4
D27:5B	D53:4B	E38:B4	E32B:4	E32B:4	E32B:4	E32B:4	E32B:4
D28:5	D54:4	E39:4	E33:4	E33:4	E33:4	E33:4	E33:4
D30:B5	D56:4B	E41:B4	E34A:4	E34A:4	E34A:4	E34A:4	E34A:4
D30:A5	D56:4A	E41:A4	E34B:4	E34B:4	E34B:4	E34B:4	E34B:4
D29:A5	D55:4A	E40:A4	E35A:4	E35A:4	E35A:4	E35A:4	E35A:4
			E35B:4	E35B:4	E35B:4	E35B:4	E35B:4

<u>LL11</u>	<u>LL21</u>	<u>LL12</u>	<u>LL22</u>	<u>LL13</u>	<u>LL23</u>	<u>LL14</u>	<u>LL24</u>
D29:B5	D55:4B	E40:B4	E35C:4	E35C:4	E35C:4	E35C:4	E35C:4
D29:C5	D55:4C	E40:C4	E35D:4	E35D:4	E35D:4	E35D:4	E35D:4
D23:11	D53:5	E38:5	E32:5	E32:5	E32:5	E32:5	E32:5
	D54:5	E39:5	E33:5	E33:5	E33:5	E33:5	E33:5
D24:11	D55:5A	E40:A5	{ E35A:5 E35B:5	E35A:5 E35B:5	E35A:5 E35B:5	E35A:5 E35B:5	E35A:5 E35B:5
D25:11							
D25A:11							
D31:1	D57:1	E42:1	E32:6	E32:6	E32:6	E32:6	E32:6
D32:1	D58:1	E43:1	E33:6	E33:6	E33:6	E33:6	E33:6
D33:A1	D59:1A	E44:A1	{ E35A:6 E35B:6	E35A:6 E35B:6	E35A:6 E35B:6	E35A:6 E35B:6	E35A:6 E35B:6
D33:B1	D59:1B	E44:B1	E35C:6	E35C:6	E35C:6	E35C:6	E35C:6
D33:C1	D59:1C	E44:C1	E35D:6	E35D:6	E35D:6	E35D:6	E35D:6
D31:2	D57:2	E42:2	E32:7	E32:7	E32:7	E32:7	E32:7
D32:2	D58:2	E43:2	E33:7	E33:7	E33:7	E33:7	E33:7
D33:A2	D59:2	E44:A2	{ E35A:7 E35B:7	E35A:7 E35B:7	E35A:7 E35B:7	E35A:7 E35B:7	E35A:7 E35B:7
	D60	E45	E36	E36	E36	E36	E36
	D62:1-5A	E46:A1-5	E37A:1-5	E37A:1-5	E37A:1-3	E37A:1-3	E37A:1-3
	D62:1-5B	E46:B1-5	E37B:1-5	E37B:1-5	E37B:1-3	E37B:1-3	E37B:1-3
	D62:1-5C	E46:C1-5	E37C:1-5	E37C:1-5	E37C:1-3	E37C:1-3	E37C:1-3
	D61:1-5A	E47:A1-5	E38A:1-5	E38A:1-5	E38A:1-3	E38A:1-3	E38A:1-3
	D61:1-5B	E47:B1-5	E38B:1-5	E38B:1-5	E38B:1-3	E38B:1-3	E38B:1-3
	D61:1-5C	E47:C1-5	E38C:1-5	E38C:1-5	E38C:1-3	E38C:1-3	E38C:1-3
	D61:1-5D	E47:D1-5	E38D:1-5	E38D:1-5	E38D:1-3	E38D:1-3	E38D:1-3
	D61:1-5E	E47:E1-5	E38E:1-5	E38E:1-5	E38E:1-3	E38E:1-3	E38E:1-3
	D61:1-5F	E47:F1-5	E38F:1-5	E38F:1-5	E38F:1-3	E38F:1-3	E38F:1-3
	D61:1-5G	E47:G1-5	E38G:1-5	E38G:1-5	E38G:1-3	E38G:1-3	E38G:1-3
	D63:1-5A	E48:A1-5	E39A:1-5	E39A:1-5	E39A:1-3	E39A:1-3	E39A:1-3
	D63:1-5B	E48:B1-5	E39B:1-5	E39B:1-5	E39B:1-3	E39B:1-3	E39B:1-3
	D63:1-5C	E48:C1-5	E39C:1-5	E39C:1-5	E39C:1-3	E39C:1-3	E39C:1-3
D34	D64	E49					
D35	D65	E50					
D36	D66	E51	E40	E40	E40	E40	E40
D37:B	D67:C	E52:B	E41A	E41A	E41A	E41A	E41A
D37:A	D67:A } D67:B }	E52:A	E41B	E41B	E41B	E41B	E41B
D37:C	D67:D	E52:C	E41C	E41C	E41C	E41C	E41C
D37:D	D67:E	E52:D	E41D	E41D	E41D	E41D	E41D
	D67:F	E52:E	E41E	E41E	E41E	E41E	E41E
			E42:HR	E42:HR			
			E42:MN	E42:MN			
			E42:AP	E42:AP			
DMST	DSTA	ESTAT	ESTAT	ESTAT			
		FA	F1A	F1A			
EA	EA	FB	F1B	F1B			
EB	EB	FC	F1C	F1C			
EC	EC	FD	F1D	F1D			
ED	ED	FE	F1E	F1E			
EE	EE						
EF	EF						
			F2:HR	F2:HR			
			F2:MN	F2:MN			
			F2:AP	F2:AP			
			F4	F4	F4	F4	F4
E2:1-15	E5:1-15	F3	F5:1-15	F5:1-15	F5:1-15	F5:1-15	F5:1-15
E2A:1-15		F4:1-15					
E3:1-15	E6:1-15	F5:1-15	F6:1-15	F6:1-15	F6:1-15	F6:1-15	F6:1-15
E4A:1-15	E7:1-15	F7:A1-15					
E4B:1-15	E8:2-15	F6:2-15					
	E9:A1-15	F7:B1-15					
	E9:B1-15	F7:C1-15					
	E9:C1-15	F7:D1-15					
	E9:D1-15	F7:E1-15					
	E10:1-15						
E4C:1-15	E11:1-15	F8:1-15	F7:1-15 F8:1-15	F7:1-15 F8:1-15	F7:1-15 F8:1-15	F7:1-15 F8:1-15	F7:1-15 F8:1-15

<u>LL11</u>	<u>LL21</u>	<u>LL12</u>	<u>LL22</u>	<u>LL13</u>	<u>LL23</u>	<u>LL14</u>	<u>LL24</u>	
E5:1-15	E12:1-15	F9:1-15	F8A:1-15 F9:1-15 F10:1-15 F11:1-15 F12A:1-15 F12B:1-15 F12C:1-15 F12D:1-15 F12E:1-15 F12F:1-15 F12G:1-15 F12H:1-15 F12I:1-15 F13:1-15	F8A:1-15 F9:1-15 F10:1-15 F11:1-15 F12A:1-15 F12B:1-15 F12C:1-15 F12D:1-15 F12E:1-15 F12F:1-15 F12G:1-15 F12H:1-15 F12I:1-15 F13:1-15	F8A:1-15 F9:1-15 F10:1-15 F11:1-15 F12A:1-15 F12B:1-15 F12C:1-15 F12D:1-15 F12E:1-15 F12F:1-15 F12G:1-15 F12H:1-15 F12I:1-15 F13:1-15	F8A:1-15 F9:1-15 F10:1-15 F11:1-15 F12A:1-15 F12B:1-15 F12C:1-15 F12D:1-15 F12E:1-15 F12F:1-15 F12G:1-15 F12H:1-15 F12I:1-15 F13:1-15	F8A:1-15 F9:1-15 F10:1-15 F11:1-15 F12A:1-15 F12B:1-15 F12C:1-15 F12D:1-15 F12E:1-15 F12F:1-15 F12G:1-15 F12H:1-15 F12I:1-15 F13:1-15	F8A:1-15 F9:1-15 F10:1-15 F11:1-15 F12A:1-15 F12B:1-15 F12C:1-15 F12D:1-15 F12E:1-15 F12F:1-15 F12G:1-15 F12H:1-15 F12I:1-15 F13:1-15
E6:1-15 E7 E8 E9 E10	E13:1-15 E14 E15 E16 E17	F10:1-15 F11 F12 F13 F14 F15	F14 F15 F16 F17 F17A F18 F18A F19 F20 F20A F21 F22 F23 F23A F24 F24A F25 F26 F26A F27 F28 F29 F29A F30 F30A F31 F32 F32A F33 F34	F14 F15 F16 F17 F17A F18 F18A F19 F20 F20A F21 F22 F23 F23A F24 F24A F25 F26 F26A F27 F28 F29 F29A F30 F30A F31 F32 F32A F33 F34	F14 F15 F16 F17 F17A F18 F18A F19 F20 F20A F21 F22 F23 F23A F24 F24A F25 F26 F26A F27 F28 F29 F29A F30 F30A F31 F32 F32A F33 F34	F14 F15 F16 F17 F17A F18 F18A F19 F20 F20A F21 F22 F23 F23A F24 F24A F25 F26 F26A F27 F28 F29 F29A F30 F30A F31 F32 F32A F33 F34	F14 F15 F16 F17 F17A F18 F18A F19 F20 F20A F21 F22 F23 F23A F24 F24A F25 F26 F26A F27 F28 F29 F29A F30 F30A F31 F32 F32A F33 F34	
D1 D2	D1 D2 D3 D4 D5	F16 F17 F18 F19 F20 F21 F22						
D3 D4 D5	D6 D7 D8	F23 F24 F25						
D6 D7 D8 D9	D9 D10 D11 D12	F26 F27 F28						
E11 E12 E13 E14:A E14:B	E18 E19 E20 E21:A E21:B	F29 F30:A F30:B	F35 F36A F36B	F35 F36A F36B	F35 F36A F36B	F35 F36A F36B	F35 F36A F36B	

<u>LL11</u>	<u>LL21</u>	<u>LL12</u>	<u>LL22</u>	<u>LL13</u>	<u>LL23</u>	<u>LL14</u>	<u>LL24</u>
E14:C E14:D	E21:C E21:D	F30:D F30:C	F36C F37:HR F37:MN F37:AP FSTAT G1A G1B G1C G1D G1E	F36C F37:HR F37:MN F37:AP FSTAT G1A G1B G1C G1D G1E	F36C	F36C	F36C
EMST	ESTA	FSTAT GA GB GC GD GE	G2:HR G2:MN G2:AP G3	G2:HR G2:MN G2:AP G3	G3	G3	G3
FA FB FC FD FE FF FHRBG FMNGB FAPBG	FA FB FC FD FE FF	G1 G2 G3 G4 G5 G6	G3A G4 G5 G6 G7 G8 G9A G9B:MO G9B:DA G9B:YR G10 G11 G12 G13 G13A G14:MO G14:YR G15 G16 G17 G18 G19 G20 G20A G21A G21B:MO G21B:DA G21B:YR G22	G3A G4 G5 G6 G7 G8 G9A G9B:MO G9B:DA G9B:YR G10 G11 G12 G13 G13A G14:MO G14:YR G15 G16 G17 G18 G19 G20 G20A G21A G21B:MO G21B:DA G21B:YR G22	G4 G9 G5 G6 G8A G8B:MO G8B:DA G8B:YR G7 G11 G12 G13 G13A G14:MO G14:YR G15 G16 G17 G18 G19 G20 G20A G21A G21B:MO G21B:DA G21B:YR G22	G4 G9 G5 G6 G8A G8B:MO G8B:DA G8B:YR G7 G11 G12 G13 G13A G14:MO G14:YR G15 G16 G17 G18 G19 G20 G20A G21A G21B:MO G21B:DA G21B:YR G22	G4 G9 G5 G6 G8A G8B:MO G8B:DA G8B:YR G7 G11 G12 G13 G13A G14:MO G14:YR G15 G16 G17 G18 G19 G20 G20A G21A G21B:MO G21B:DA G21B:YR G22
F1	F1 F2	G8 G9 G10 G11 G12 G13 G13:M G13:Y	F15:1-3 F16:1-3 F17:1-3 F18:1-3 F21:1-3 F22:1-3A F22:1-3B F23:1-3 F19:A1-3 F19:B1-3 F20:1-3 F24:1-3 F25:1-3A F25:1-3B F26:1-3A F26:1-3B F27:1-3 F28:1-3 F29:1-3A	F15:1-3 F16:1-3 F17:1-3 F18:1-3 F21:1-3 F22:1-3 F23:1-3 F30M:1-3 G30Y:1-3 G31:1-3 G32:1-3 G33:1-3 G34A:1-3 G34B:1-3 G35:1-3 G36:1-3 G37:1-3	F15:1-3 F16:1-3 F17:1-3 F18:1-3 F21:1-3 F22:1-3 F23:1-3 F30M:1-3 G30Y:1-3 G31:1-3 G32:1-3 G33:1-3 G34A:1-3 G34B:1-3 G35:1-3 G36:1-3 G37:1-3	F15:1-3 F16:1-3 F17:1-3 F18:1-3 F21:1-3 F22:1-3 F23:1-3 F30M:1-3 G30Y:1-3 G31:1-3 G32:1-3 G33:1-3 G34A:1-3 G34B:1-3 G35:1-3 G36:1-3 G37:1-3	F15:1-3 F16:1-3 F17:1-3 F18:1-3 F21:1-3 F22:1-3 F23:1-3 F30M:1-3 G30Y:1-3 G31:1-3 G32:1-3 G33:1-3 G34A:1-3 G34B:1-3 G35:1-3 G36:1-3 G37:1-3
F2 F3 F4:M F4:Y F5 F6 F7 F8	F3 F4 F5:A F5:B F6 F7 F8 F9 F10 F11 F12	G23:1-3 G24:1-3 G25:1-3 G26:1-3 G27:1-3 G28:1-3 G29:1-3 G30:M1-3 G30:Y1-3 G31:1-3 G32:1-3 G33:1-3 G34:A1-3 G34:B1-3 G35:1-3 G36:1-3 G37:1-3	F9 F10 F11	F9 F10 F11	F13	F13	F13

<u>LL11</u>	<u>LL21</u>	<u>LL12</u>	<u>LL22</u>	<u>LL13</u>	<u>LL23</u>	<u>LL14</u>	<u>LL24</u>
	F29:1-3B						
	F30:1-3	G38:1-3	G38:1-3	G38:1-3	G38:1-3	G38:1-3	G38:1-3
F22:A1-3	F31:1-3A	G39:A1-3	G39A:1-3	G39A:1-3	G39A:1-3	G39A:1-3	G39A:1-3
	F31:1-3B	G39:B1-3	G39B:1-3	G39B:1-3	G39B:1-3	G39B:1-3	G39B:1-3
F22:B1-3	F31:1-3C	G39:C1-3	G39C:1-3	G39C:1-3	G39C:1-3	G39C:1-3	G39C:1-3
	F31:1-3D	G39:D1-3	G39D:1-3	G39D:1-3	G39D:1-3	G39D:1-3	G39D:1-3
F23:A1-3	F32:1-3A	G40:A1-3	G40A:1-3	G40A:1-3	G40A:1-3	G40A:1-3	G40A:1-3
F23:B1-3	F32:1-3B	G40:B1-3					
	F32:C1-3	G40:C1-3					
	F32:G1-3	G40:D1-3					
	F32:H1-3	G40:E1-3					
F23:M1-3	F32:D1-3	G40:M1-3	G40B:M1-3	G40B:M1-3	G40B:M1-3	G40B:M1-3	G40B:M1-3
F23:D1-3	F32:E1-3	G40:DA1-3	G40B:D1-3	G40B:D1-3	G40B:D1-3	G40B:D1-3	G40B:D1-3
F23:Y1-3	F32:F1-3	G40:Y1-3	G40B:Y1-3	G40B:Y1-3	G40B:Y1-3	G40B:Y1-3	G40B:Y1-3
F25:A1-3	F33:1-3A	G41:A1-3	G41A:1-3	G41A:1-3	G41A:1-3	G41A:1-3	G41A:1-3
F25:B1-3	F33:1-3B	G41:B1-3	G41B:1-3	G41B:1-3	G41B:1-3	G41B:1-3	G41B:1-3
F24:1-3	F34:1-3	G42:1-3	G42:1-3	G42:1-3	G42:1-3	G42:1-3	G42:1-3
F26:1-3	F35:1-3	G43:1-3	G43:1-3	G43:1-3	G43:1-3	G43:1-3	G43:1-3
F27:1-3	F36:1-3	G44:1-3	G44:1-3	G44:1-3	G44:1-3	G44:1-3	G44:1-3
F28:1-3	F37:1-3	G45:1-3	G45:1-3	G45:1-3	G45:1-3	G45:1-3	G45:1-3
F29:1-3	F38:1-3	G46:1-3	G46:1-3	G46:1-3	G46:1-3	G46:1-3	G46:1-3
	F39:1-2	G47:1-2	G47:1-3	G47:1-3	G47:1-3	G47:1-3	G47:1-3
	F50:A-C	G57:A-C	G48A-C	G48A-C	G48A-C	G48A-C	G48A-C
F30	F40						
F31	F41						
F32	F42	G49	G49	G49	G49	G49	G49
F33:M1-2	F43:1-2A	G50:M1-2	G50M:1-2	G50M:1-2	G50M:1-2	G50M:1-2	G50M:1-2
F33:Y1-2	F43:1-2B	G50:Y1-2	G50Y:1-2	G50Y:1-2	G50Y:1-2	G50Y:1-2	G50Y:1-2
F34:A1-2	F44:1-2A	G51:A1-2	G51A:1-2	G51A:1-2	G51A:1-2	G51A:1-2	G51A:1-2
	F44:1-2B	G51:B1-2	G51B:1-2	G51B:1-2	G51B:1-2	G51B:1-2	G51B:1-2
F34:B1-2	F44:1-2C	G51:C1-2	G51C:1-2	G51C:1-2	G51C:1-2	G51C:1-2	G51C:1-2
	F44:1-2D	G51:D1-2	G51D:1-2	G51D:1-2	G51D:1-2	G51D:1-2	G51D:1-2
F35:1-2	F45:1-2	G52:1-2	G52:1-2	G52:1-2	G52:1-2	G52:1-2	G52:1-2
F36:1-2	F46:1-2	G53:1-2	G53:1-2	G53:1-2	G53:1-2	G53:1-2	G53:1-2
	F47:1-2	G54:1-2	G54:1-2	G54:1-2	G54:1-2	G54:1-2	G54:1-2
	F48:1-2	G55:1-2	G55:1-2	G55:1-2	G55:1-2	G55:1-2	G55:1-2
	F49	G56					
F37	F51	G58	G56	G56	G56	G56	G56
F38	F52:A	G59:A	G57A	G57A	G57A	G57A	G57A
	F52:B	G59:B	G57B	G57B	G57B	G57B	G57B
	F53	G60	G58	G58	G58	G58	G58
	F54:A	G61	G59	G59	G59	G59	G59
F39	F54:B	G61A:A	G59A	G59A	G59A	G59A	G59A
	F54:C	G61A:B	G59B	G59B	G59B	G59B	G59B
		G62					
		G63:A-B					
		G64					
F40	F55	G65	G60	G60	G60	G60	G60
F41	F56	G66	G61	G61	G61	G61	G61
F42:A1-3	F57:1-3A	G67:A1-2	G62A:1-2	G62A:1-2	G62A:1-2	G62A:1-2	G62A:1-2
F42:B1-3	F57:1-3B	G67:B1-2	G62B:1-2	G62B:1-2	G62B:1-2	G62B:1-2	G62B:1-2
F42:C1-3	F57:1-3C	G67:C1-2	G62C:1-2	G62C:1-2	G62C:1-2	G62C:1-2	G62C:1-2
F42:D1-3	F57:1-3D	G67:D1-2	G62D:1-2	G62D:1-2	G62D:1-2	G62D:1-2	G62D:1-2
F42:E1-3	F57:1-3E	G67:E1-2	G62E:1-2	G62E:1-2	G62E:1-2	G62E:1-2	G62E:1-2
F42:F1-3	F57:1-3F	G67:F1-2	G62F:1-2	G62F:1-2	G62F:1-2	G62F:1-2	G62F:1-2
F42:G1-3	F57:1-3G	G67:G1-2	G62G:1-2	G62G:1-2	G62G:1-2	G62G:1-2	G62G:1-2
F42:H1-3	F57:1-3H	G67:H1-2	G62H:1-2	G62H:1-2	G62H:1-2	G62H:1-2	G62H:1-2
F43:1-3	F58:1-3	G68:1-2	G63:1-2	G63:1-2	G63:1-2	G63:1-2	G63:1-2
F44:1-3	F59:1-3	G69:1-2	G64:1-2	G64:1-2	G64:1-2	G64:1-2	G64:1-2
	F60:1-3						
F45:1-3	F61:1-3	G70:1-2	G65:1-2	G65:1-2	G65:1-2	G65:1-2	G65:1-2
	F62	G71	G66	G66	G66	G66	G66
	F63						
		G72:A	G67A	G67A	G67A	G67A	G67A
		G72:B	G67B	G67B	G67B	G67B	G67B
		G72:C	G67C	G67C	G67C	G67C	G67C
		G72:D	G67D	G67D	G67D	G67D	G67D
		G72:E	G67E	G67E	G67E	G67E	G67E
		G72:F	G67F	G67F	G67F	G67F	G67F

<u>LL11</u>	<u>LL21</u>	<u>LL12</u>	<u>LL22</u>	<u>LL13</u>	<u>LL23</u>	<u>LL14</u>	<u>LL24</u>
			G67G	G67G	G67G	G67G	G67G
			G67H	G67H	G67H	G67H	G67H
		G72:G	G68	G68	G68	G68	G68
		G73	G69	G69	G69	G69	G69
		G74	G70	G70	G70	G70	G70
		G75	G71	G71	G71	G71	G71
	F64	G76	G72	G72	G72	G72	G72
	F65	G77	G73	G73	G73	G73	G73
	F66	G78					
	F67:A-E	G79:1-5					
F46	F68	G80	G74	G74	G74	G74	G74
F47	F69	G81					
F48	F70	G82	G75	G75	G75	G75	G75
F49:A-H	F71:A-H	G83:A-H					
F50	F72	G84	G76	G76	G76	G76	G76
F51:B1-3	F73:1-3B	G85:B1-3	G77B:1-3	G77B:1-3	G77B:1-3	G77B:1-3	G77B:1-3
F51:A1-3	F73:1-3A	G85:C1-3	G77C:1-3	G77C:1-3	G77C:1-3	G77C:1-3	G77C:1-3
F52:1-3	F74:1-3	G86:1-3	G78:1-3	G78:1-3	G78:1-3	G78:1-3	G78:1-3
F53:1-3	F75:1-3	G87:1-3	G79:1-3	G79:1-3	G79:1-3	G79:1-3	G79:1-3
F54:1-2	F76:1-2	G88:1-2	G80:1-2	G80:1-2	G80:1-2	G80:1-2	G80:1-2
F55	F77	G89					
F56	F78	G90					
F57	F79	G91	G81	G81	G81	G81	G81
F58:A	F80:A	G92:A	G82A	G82A	G82A	G82A	G82A
F58:B							
F58:C	F80:B	G92:B	G82B	G82B	G82B	G82B	G82B
	F80:D	G92:D	G82C	G82C	G82C	G82C	G82C
F58:D	F80:C	G92:C	G82D	G82D	G82D	G82D	G82D
F58:E	F80:E	G92:E	G82E	G82E	G82E	G82E	G82E
F58:F	F80:F	G92:F	G82F	G82F	G82F	G82F	G82F
	F80:G	G92:G	G82G	G82G	G82G	G82G	G82G
F58:G	F80:H	G92:H	G82H	G82H	G82H	G82H	G82H
FHREN	FHREN	GHREN	G83:HR	G83:HR	G83:HR	G83:HR	G83:HR
FMNEN	FMNEN	GMNEN	G83:MN	G83:MN	G83:MN	G83:MN	G83:MN
FAPEN	FAPEN	GAPEN	G83:AP	G83:AP	G83:AP	G83:AP	G83:AP
FMST	FSTA	GSTAT	GSTAT	GSTAT			
		HX					
		HA	H1A	H1A			
HA	HA	HB	H1B	H1B			
HB	HB	HC	H1C	H1C			
HC	HC	HD	H1D	H1D			
HD	HD	HE	H1E	H1E			
HE	HE						
HF	HF						
HHRBG	HHRBG	HHRBG	H2:HR	H2:HR			
HMNBG	HMNBG	HMNBG	H2:MN	H2:MN			
HAPBG	HAPBG	HAPBG	H2:AP	H2:AP			
		H1					
H15	H27	H2	H3	H3	H3	H3	H3
H16	H28						
		H3:A	H4A	H4A	H4A	H4A	H4A
		H3:B	H4B	H4B	H4B	H4B	H4B
		H4					
H17	H29	H5	H5	H5	H5	H5	H5
	H30:A	H6:A	H6A	H6A	H6A	H6A	H6A
	H30:B	H6:B	H6B	H6B	H6B	H6B	H6B
	H30:C	H6:C	H6C	H6C	H6C	H6C	H6C
	H30:D	H6:D	H6D	H6D	H6D	H6D	H6D
H18:A	H30:E	H6:E	H6E	H6E	H6E	H6E	H6E
H18:B	H30:F	H6:F	H6F	H6F	H6F	H6F	H6F
H18:C	H30:G	H6:G	H6G	H6G	H6G	H6G	H6G
H18:D	H30:H	H6:H	H6H	H6H	H6H	H6H	H6H
H18:E	H30:I	H6:I	H6I	H6I	H6I	H6I	H6I
H18:F	H30:J	H6:J	H6J	H6J	H6J	H6J	H6J
	H1	H7					
	H2	H8					
H1	H3	H9					
H1A	H4	H10	H7	H7	H7	H7	H7
	H5	H11					
	H9	H15					

<u>LL11</u>	<u>LL21</u>	<u>LL12</u>	<u>LL22</u>	<u>LL13</u>	<u>LL23</u>	<u>LL14</u>	<u>LL24</u>
	H6	H12 }	H8	H8	H8	H8	H8
	H10	H16 }					
	H7	H13	H9	H9	H9	H9	H9
	H13	H18	H10	H10	H10	H10	H10
	H14	H19	H11	H11	H11	H11	H11
H2M	H8:A	H14:M	H12:MO	H12:MO	H12:MO	H12:MO	H12:MO
H2D	H8:B						
H2Y	H8:C	H14:Y	H12:YR	H12:YR	H12:YR	H12:YR	H12:YR
	H11						
H3	H12	H17	H13	H13	H13	H13	H13
12:A	I12:A	J13:A	H14A	H14A	H14A	H14A	H14A
	I12:B	J13:B	H14B	H14B	H14B	H14B	H14B
12:B	I12:C	J13:C	H14C	H14C	H14C	H14C	H14C
12:C	I12:D	J13:D	H14D	H14D	H14D	H14D	H14D
12:D	I12:E	J13:E	H14E	H14E	H14E	H14E	H14E
	I12:F	J13:F	H14F	H14F	H14F	H14F	H14F
12:E	I12:G	J13:G	H14G	H14G	H14G	H14G	H14G
12:F	I12:H	J13:H	H14H	H14H	H14H	H14H	H14H
12:G	I12:I	J13:I	H14I	H14I	H14I	H14I	H14I
12:H	I12:J	J13:J	H14J	H14J	H14J	H14J	H14J
12:I	I12:K	J13:K	H14K	H14K	H14K	H14K	H14K
12:J	I12:L	J13:L	H14L	H14L	H14L	H14L	H14L
	I12:M	J13:M	H14M	H14M	H14M	H14M	H14M
12:K	I12:N	J13:N	H14N	H14N	H14N	H14N	H14N
			H15	H15	H15	H15	H15
	H18	H23 }	H16	H16	H16	H16	H16
	I4	J4 }					
		H24	H17	H17	H17	H17	H17
	H19	H25	H18	H18	H18	H18	H18
H8	H20	H26	H19	H19	H19	H19	H19
	H20A:1-2						
H9	{ H21	{ H27 }	H20	H20	H20	H20	H20
	{ I10	{ J7 }					
H33	{ H45	{ H38 }	H21	H21	H21	H21	H21
	{ I5	{ J5 }					
H10	{ H22	{ H28 }	H22	H22	H22	H22	H22
	{ I9	{ J6 }					
H11	H23						
H12:A	H24:A						
	H24:B						
H12:B	H24:C						
H12:C	H24:D						
H12:D	H24:E						
H12:E	H24:F						
H12:F	H24:G						
H12:G	H24:H						
H12:H	H24:I						
H12:I	H24:J						
H12:J	H24:K						
H13	H25						
H14:A	H26:A						
H14:B	H26:B						
H14:C	H26:C						
H14:D	H26:D						
H14:E	H26:E						
H14:F	H26:F						
H14:G	H26:G						
H14:H	H26:H						
H14:I	H26:I						
	H26:J						
H14:J	H26:K						
H14:K	H26:L						
H14:L	H26:M						
H19	H31	H29	H23	H23	H23	H23	H23
H20	H32	H30	H24	H24	H24	H24	H24
H21	H33	H31					
H22	H34						
H23	H35						
H24M	H36:A						

<u>LL11</u>	<u>LL21</u>	<u>LL12</u>	<u>LL22</u>	<u>LL13</u>	<u>LL23</u>	<u>LL14</u>	<u>LL24</u>
H24D	H36:B						
H24Y	H36:C						
H25	H37	H32					
H26	H38	H33					
		H34	H25	H25	H25	H25	H25
		H35:A	H26A	H26A	H26A	H26A	H26A
H27	H39	H35:B	H26B	H26B	H26B	H26B	H26B
		H36					
H28:A-B	H40:A-B						
H29	H41						
H30	H42						
H31	H43						
			H27A-L	H27A-L	H27A-L	H27A-L	H27A-L
H32:A	H44:A		H28A	H28A	H28A	H28A	H28A
H32:B	H44:B	H37:A	H28B	H28B	H28B	H28B	H28B
H32:C	H44:C	H37:B	H28C	H28C	H28C	H28C	H28C
H32:D	H44:D	H37:C	H28D	H28D	H28D	H28D	H28D
H32:E	H44:E	H37:D	H28E	H28E	H28E	H28E	H28E
H32:F	H44:F	H37:E	H28F	H28F	H28F	H28F	H28F
H32:G	H44:G	H37:F	H28G	H28G	H28G	H28G	H28G
H32:H	H44:H	H37:G	H28H	H28H	H28H	H28H	H28H
H32:I	H44:I	H37:H	H28I	H28I	H28I	H28I	H28I
H32:J	H44:J	H37:I	H28J	H28J	H28J	H28J	H28J
H32:K	H44:K	H37:J	H28K	H28K	H28K	H28K	H28K
H34	{ H46						
	{ I6						
H35	{ H47						
	{ I7						
H36	{ H48						
	{ I8						
H37	H49	H39:A					
H38:A	H50:A	H39:B					
	H50:B	H39:C					
H38:B	H50:C	H39:D					
H38:C	H50:D	H39:E					
H38:D	H50:E	H39:F					
H38:E	H50:F	H39:G					
H38:F	H50:G	H39:H					
H38:G	H50:H	H39:I					
H39:A-C	H51:A-C	H40:A-C	H29A-C	H29A-C	H29A-C	H29A-C	H29A-C
H40:A	H52:A	H41:A					
H40:B	H52:B	H41:B					
H40:C	H52:C	H41:C					
H40:D	H52:D	H41:D					
H40:E	H52:E						
H40:F	H52:F						
H40:G	H52:G	H41:E					
H40:H	H52:H	H41:F					
H40:I	H52:I	H41:G					
H40:J	H52:J						
H40:K	H52:K	H41:H					
H40:L	H52:L	H41:I					
H40:M	H52:M						
	H52:N						
H40:N	H52:O						
H40:O	H52:P						
H40:P	H52:Q	H41:J					
H41	H53	H42	H30	H30	H30	H30	H30
HHREN	HHREN	HHREN	H31:HR	H31:HR			
HMNEN	HMNEN	HMNEN	H31:MN	H31:MN			
HAPEN	HAPEN	HAPEN	H31:AP	H31:AP			
HMST	HSTA	HSTAT	HSTAT	HSTAT			
GA	GX	IX	I1	I1	I1	I1	I1
		IA	I2A	I2A			
GB	GA	IB	I2B	I2B			
GC	GB	IC	I2C	I2C			
GD	GC	ID	I2D	I2D			
GE1	GD	IE	I2E	I2E			
GF	GE						

<u>LL11</u>	<u>LL21</u>	<u>LL12</u>	<u>LL22</u>	<u>LL13</u>	<u>LL23</u>	<u>LL14</u>	<u>LL24</u>
GG	GF						
GHRBG	GHRBG	IHRBG	I3:HR	I3:HR			
GMNBG	GMNBG	IMNBG	I3:MN	I3:MN			
GAPBG	GAPBG	IAPBG	I3:AP	I3:AP			
G1	G1	I1	I4	I4	I4	I4	I4
			I5	I5	I5	I5	I5
G2	G2	I2					
	G3	I3	I6	I6	I6	I6	I6
G3	G4	I4					
G4	G5	I5	I7	I7	I7	I7	I7
	G6						
G5:A	G7	I6					
G5:B							
G6	G8	I7					
G7							
G8:A	G9	I8					
G8:B							
G9:A	G11	I9*					
G9:B							
G10:A	G10	I9*					
G10:B							
G11	G12	I10					
G12	G13	I11	I8	I8	I8	I8	I8
G13	G14	I12					
G14	G15	I13					
G15:A-B	G16:A-B	I14:A-B					
G16	G17						
G17	G18						
G18	G19						
			I9	I9	I9	I9	I9
			I10A:1-4	I10A:1-4	I10A:1-4	I10A:1-4	I10A:1-4
			I10B:1-4	I10B:1-4	I10B:1-4	I10B:1-4	I10B:1-4
			I10C:1-4	I10C:1-4	I10C:1-4	I10C:1-4	I10C:1-4
G19	G20	I15	I11	I11	I11	I11	I11
G21	G22	I16					
G22	G23	I17					
G20	G21	I18	I12	I12	I12	I12	I12
G23:A-H	G24:A-H	I19:A-H					
GHREN	GHREN	IHREN	I13:HR	I13:HR			
GMNEN	GMNEN	IMNEN	I13:MN	I13:MN			
GAPEN	GAPEN	IAPEN	I13:AP	I13:AP			
GMST	GSTA	ISTAT	ISTAT	ISTAT			
		JA	J1A	J1A			
IA	IA	JB	J1B	J1B			
IB	IB	JC	J1C	J1C			
IC	IC	JD	J1D	J1D			
ID	ID	JE	J1E	J1E			
IE	IE						
IF	IF						
IHRBG	IHRBG	JHRBG	J2:HR	J2:HR			
IMNBG	IMNBG	JMNBG	J2:MN	J2:MN			
IAPBG	IAPBG	JAPBG	J2:AP	J2:AP			
I1			J3	J3	J3	J3	J3
	I1	J1					
		J8					
	I11	J9					
		J10					
		J11					
		J12					
I3	I13	J14	J4	J4	J4	J4	J4
I4	I14	J15	J5	J5	J5	J5	J5
I5	I15	J16	J6	J6	J6	J6	J6
I5A	I16	J17	J7	J7	J7	J7	J7
I5B:A	I17:A	J18:A	J8A	J8A	J8A	J8A	J8A
I5B:B	I17:B	J18:B	J8B	J8B	J8B	J8B	J8B
I5B:C	I17:C	J18:C	J8C	J8C	J8C	J8C	J8C

*This variable is listed more than once in this column because its corresponding variables are not numerically adjacent.

<u>LL11</u>	<u>LL21</u>	<u>LL12</u>	<u>LL22</u>	<u>LL13</u>	<u>LL23</u>	<u>LL14</u>	<u>LL24</u>
I5B:D	I17:D	J18:D	J8D	J8D	J8D	J8D	J8D
	I17:E	J18:E	J8E	J8E	J8E	J8E	J8E
I5B:E	I17:F	J18:F	J8F	J8F	J8F	J8F	J8F
I5B:F	I17:G	J18:G	J8G	J8G	J8G	J8G	J8G
I5B:G	I17:H	J18:H	J8H	J8H	J8H	J8H	J8H
I6	I18	J19					
I7	I19	J20					
I8	I20	J21	J9	J9	J9	J9	J9
I9:A-H	I21:A-H	J22:A-I	J10	J10	J10	J10	J10
I10	I22	J23	J11	J11	J11	J11	J11
			J12A	J12A			
			J12B	J12B			
			J12C	J12C			
			J12D	J12D			
	I23:1A	J24:A					
	I23:1B	J24:B					
	I23:1C	J24:C					
I11:K	I23:1D	J24:D					
I11:A	I23:2A	J24:E					
I11:B	I23:2B	J24:F					
I11:C	I23:2C	J24:G					
I11:D	I23:2D	J24:H					
	I23:2E	J24:I					
I11:E	I23:3A	J24:J					
I11:F	I23:3B	J24:K					
I11:G	I23:3C	J24:L					
I11:H	I23:3D	J24:M					
	I23:3E	J24:N					
I11:I	I23:4A	J24:O					
I11:J	I23:4B	J24:P					
	I23:4C	J24:Q					
	I23:4D	J24:R					
	I23:4E	J24:S					
	I23:5A	J24:T					
	I23:5B	J24:U					
	I23:5C	J24:V					
	I23:5D	J24:W					
	I23:5E	J24:X					
I11:L	I23:8A	J24:Y					
I12	I24	J25					
I13:A	I25:A	J26					
I13:B-D	I25:B1-4						
I14	I26	J27					
I15:A	I27:A						
I15:B	I27:B						
	I27:C						
I15:C	I27:D						
I15:D	I27:E						
I15:E	I27:F						
I16	I28	J28					
I17	I29	J29					
I18:A	I30:B	J30:B					
I18:B	I30:A	J30:A					
I19:A	I31:A	J31:A					
I19:B	I31:B	J31:B					
I19:C	I31:C	J31:C					
I19:D	I31:D	J31:D					
I19:E	I31:E	J31:E					
I19:F	I31:F	J31:F					
I19:G	I31:G	J31:G					
I19:H	I31:H	J31:H					
I19:I	I31:I	J31:I					
	I31:J	J31:J					
I19:J	I31:K	J31:K					
I20:A-L							
I21	I32	J32					
I21A	I33	J33	J13A	J13A	J13A	J13A	J13A
			J13B	J13B	J13B	J13B	J13B
I22	I34	J34					

<u>LL11</u>	<u>LL21</u>	<u>LL12</u>	<u>LL22</u>	<u>LL13</u>	<u>LL23</u>	<u>LL14</u>	<u>LL24</u>
I23	I35						
I24	I36						
I25	I37	J35					
I28:A	I40:A	J38:A	J14A	J14A	J14A	J14A	J14A
I28:B	I40:B	J38:B	J14B	J14B	J14B	J14B	J14B
I28:C	I40:C	J38:C	J14C	J14C	J14C	J14C	J14C
			J14D	J14D	J14D	J14D	J14D
I26	I38	J36	J15	J15	J15	J15	J15
I27	I39	J37					
I29	I41	J39	J16	J16	J16	J16	J16
	I42	J40	J17	J17	J17	J17	J17
	I43	J41	J18	J18	J18	J18	J18
			J19	J19	J19	J19	J19
I30	I44	J42	J20	J20	J20	J20	J20
			J21A	J21A	J21:A	J21:A	J21:A
			J21B	J21B	J21:B	J21:B	J21:B
I31:A	I45:B	J43:B					
I31:B	I45:C	J43:C					
I31:C	I45:D	J43:D					
I31:D	I45:E	J43:E					
I31:E	I45:F	J43:F					
I31:F	I45:G	J43:G					
I31:G	I45:H	J43:H					
	I45:I	J43:I					
I31:H	I45:J	J43:J					
I31:I	I45:K	J43:K					
I31:K*	I45:M*	J43:M*	J21C	J21C	J21:C	J21:C	J21:C
			J21D	J21D	J21:D	J21:D	J21:D
	I45:N	J43:N					
I31:L*	I45:O*	J43:O*	J21E	J21E	J21:E	J21:E	J21:E
I31:J*	I45:L*	J43:L*	J21F	J21F	J21:F	J21:F	J21:F
	I45:P*	J43:P*	J21G	J21G	J21:G	J21:G	J21:G
I31:M*	I45:Q*	J43:Q*	J21H	J21H	J21:H	J21:H	J21:H
	I45:A	J43:A	J22A	J22A	J22:A	J22:A	J22:A
I31:K*	I45:M*	J43:M*	J22B	J22B	J22:B	J22:B	J22:B
			J22C	J22C	J22:C	J22:C	J22:C
I31:L*	I45:O*	J43:O*	J22D	J22D	J22:D	J22:D	J22:D
I31:J*	I45:L*	J43:L*	J22E	J22E	J22:E	J22:E	J22:E
	I45:P*	J43:P*	J22F	J22F	J22:F	J22:F	J22:F
I31:M*	I45:Q*	J43:Q*	J22G	J22G	J22:G	J22:G	J22:G
I31A	I46	J44	J23	J23	J23	J23	J23
I32	I47	J45	J24	J24	J24	J24	J24
I33	I48	J46	J25	J25	J25	J25	J25
I34	I49	J47	J26	J26	J26	J26	J26
I35:A	I50:A	J48:A	J27A	J27A	J27A	J27A	J27A
I35:B	I50:B	J48:B	J27B	J27B	J27B	J27B	J27B
I35:C	I50:C	J48:C	J27C	J27C	J27C	J27C	J27C
I35:D	I50:D	J48:D	J27D	J27D	J27D	J27D	J27D
I35:E	I50:E	J48:E	J27E	J27E	J27E	J27E	J27E
I35:F	I50:F	J48:F	J27F	J27F	J27F	J27F	J27F
	I50:G	J48:G	J27G	J27G	J27G	J27G	J27G
I35:G	I50:H	J48:H	J27H	J27H	J27H	J27H	J27H
I36:A	I51:A	J49:A	J28A	J28A	J28A	J28A	J28A
I36:B	I51:B	J49:B	J28B	J28B	J28B	J28B	J28B
I36:C	I51:C	J49:C	J28C	J28C	J28C	J28C	J28C
I36:D	I51:D	J49:D	J28D	J28D	J28D	J28D	J28D
I36:E	I51:E	J49:E	J28E	J28E	J28E	J28E	J28E
I36:F	I51:F	J49:F	J28F	J28F	J28F	J28F	J28F
	I51:G	J49:G	J28G	J28G	J28G	J28G	J28G
	I51:H	J49:H	J28H	J28H	J28H	J28H	J28H
I36:G	I51:I	J49:I	J28I	J28I	J28I	J28I	J28I
		JHREN	J29:HR	J29:HR			
		JMNEN	J29:MN	J29:MN			
		JAPEN	J29:AP	J29:AP			
	ISTA	JSTAT	JSTAT	JSTAT			
		KX	K1	K1	K1	K1	K1
		KA	K2A	K2A			

*This variable is listed more than once in this column because its corresponding variables are not numerically adjacent.

<u>LL11</u>	<u>LL21</u>	<u>LL12</u>	<u>LL22</u>	<u>LL13</u>	<u>LL23</u>	<u>LL14</u>	<u>LL24</u>
	JA	KB	K2B	K2B			
	JB	KC	K2C	K2C			
	JC	KD	K2D	K2D			
	JD	KE	K2E	K2E			
	JE						
	JF						
		KHRBG	K3:HR	K3:HR			
		KMNBG	K3:MN	K3:MN			
		KAPBG	K3:AP	K3:AP			
I38A:A1-2	J2:A1-6	K1:1-6	K4A:1-6	K4A:1-6	K4A:1-6	K4A:1-6	K4A:1-6
I37	J1	K1	K4B	K4B	K4B	K4B	K4B
	J2:A7-12	K1:7-12	K5A:1-6	K5A:1-6	K5A:1-6	K5A:1-6	K5A:1-6
	J2:A14	K1:T	K5B:2	K5B:2	K5B:2	K5B:2	K5B:2
	J3	K3	K6	K6	K6	K6	K6
I38B:B1-2	J4:A1-6	K4:1-5	K7:1-5	K7:1-5	K7:1-5	K7:1-5	K7:1-5
	J5:A	K5:A					
	J5:B	K5:B					
	J6	K6					
			K7A	K7A	K7A	K7A	K7A
			K8	K8	K8	K8	K8
	J7	K7	K9	K9	K9	K9	K9
	J7A:A1-10	K7A:1-10	K9A:1-10	K9A:1-10	K9A:1-9	K9A:1-9	K9A:1-9
					K9B:2	K9B:2	K9B:2
	J7B:B1-3	K7B:1-3					
		K8	K10	K10	K10	K10	K10
		K8A:1-8	K10A:1-8	K10A:1-8	K10A:1-6	K10A:1-6	K10A:1-6
		K8A:T	K10A:9	K10A:9	K10B:2	K10B:2	K10B:2
		K8B:1-3					
I39:A	J8	K9	K11	K11	K11	K11	K11
I39:B1-2	J8A:A1-10	K9A:1-8	K11A:1-8	K11A:1-8	K11A:1-6	K11A:1-6	K11A:1-6
	J8A:A12	K9A:T	K11A:9	K11A:9	K11B:2	K11B:2	K11B:2
	J9						
	J10	K10	K12	K12	K12	K12	K12
		K11	K13	K13	K13	K13	K13
		K12:1-8	K13A:1-8	K13A:1-8	K13A:1-6	K13A:1-6	K13A:1-6
		K12:T	K13A:9	K13A:9	K13B:2	K13B:2	K13B:2
		K12A:1-3					
	J11	K12B	K14	K14	K14	K14	K14
	J12:A1-10	K12C:1-8	K14A:1-8	K14A:1-8	K14A:1-8	K14A:1-8	K14A:1-8
	J12:A12	K12C:T	K14A:9	K14A:9	K14B:2	K14B:2	K14B:2
		K13					
		K14:1-6					
		K15					
	J13	K16					
	J14:A1-10	K17					
	J14:A12	K18:1-8					
		K18:T					
		K18A:1-3					
	J15:1-5	K19:1-5					
			K15:1	K15:1	K15:1	K15:1	K15:1
			K15:2	K15:2	K15:2	K15:2	K15:2
			K15:3	K15:3	K15:3	K15:3	K15:3
			K15:4	K15:4	K15:4	K15:4	K15:4
			K15:5	K15:5	K15:5	K15:5	K15:5
			K15:6	K15:6	K15:6	K15:6	K15:6
			K15:7	K15:7			
			K15:8	K15:8	K15:7	K15:7	K15:7
			K15:9	K15:9			
			K15:10	K15:10			
			K15:11	K15:11	K15:8	K15:8	K15:8
			K15:12	K15:12	K15:9	K15:9	K15:9
			K15:13	K15:13	K15:10	K15:10	K15:10
			K15:14	K15:14	K15:11	K15:11	K15:11
			K15:15	K15:15	K15:12	K15:12	K15:12
			K15:16-20	K15:16-20	K15:13-17	K15:13-17	K15:13-17
			K15:21	K15:21	K15:18	K15:18	K15:18
	J15A:A1-3	K19A:1-3	K15A:1-3	K15A:1-3	K15A:1-3	K15A:1-3	K15A:1-3
		K20					
		K21:1-8					

<u>LL11</u>	<u>LL21</u>	<u>LL12</u>	<u>LL22</u>	<u>LL13</u>	<u>LL23</u>	<u>LL14</u>	<u>LL24</u>
		K21:T K21A:1-3					
	J16 J16A:A1-5 J16A:A6 J17 J18:A1-8 J18:A10	K22 K23:1-8 K23:T K24 K25	K16 K17 K17A:1-5 K18 K18A K19	K16 K17 K17A:1-5 K18 K18A K19	K16 K17 K17A:1-5 K18 K18A K19	K16 K17 K17A:1-5 K18 K18A K19	K16 K17 K17A:1-5 K18 K18A K19
		K31 K32 K32A:1-3	K20 K21 K22 K23 K24 K25 K26	K20 K21 K22 K23 K24 K25 K26	K20 K21 K22 K23 K24 K25 K26	K20 K21 K22 K23 K24 K25 K26	K20 K21 K22 K23 K24 K25 K26
		K33 K34 K27	K27 K28 K29	K27 K28 K29	K27 K28 K29	K27 K28 K29	K27 K28 K29
	K30 K30A:1-4	K29 K30 K31 K32 K33 K34 K35 K36 K37:1-10 K39 K40 K41 K42 K38	K29A:1-4 K30 K31 K32 K33 K34 K35 K36:1-10	K29A:1-4 K30 K31 K32 K33 K34 K35 K36:1-10	K29A:1-4 K30 K31 K32 K33 K34 K35 K36:1-10	K29A:1-4 K30 K31 K32 K33 K34 K35 K36:1-10	K29A:1-4 K30 K31 K32 K33 K34 K35 K36:1-10
		K41 K42 K38	K37 K38 K39 K40 K41	K37 K38 K39 K40 K41	K37 K38 K39 K40 K41	K37 K38 K39 K40 K41	K37 K38 K39 K40 K41
		K43	K42:1 K42:2 K42:4 K42:5 K42:6 K42:7 K42A:1-3 K43 K44 K45 K46A	K42:1 K42:2 K42:4 K42:5 K42:6 K42:7 K42A:1-3 K43 K44 K45 K46A	K42:1 K42:2 K42:4 K42:5 K42:6 K42:7 K42A:1-3 K43 K44 K45 K46A	K42:1 K42:2 K42:4 K42:5 K42:6 K42:7 K42A:1-3 K43 K44 K45 K46A	K42:1 K42:2 K42:4 K42:5 K42:6 K42:7 K42A:1-3 K43 K44 K45 K46A
	J19A J19B	K45 K46J K46A K46B K46E	K46 K46C K46D K46E	K46B K46C K46D K46E	K46B K46C K46D K46E	K46B K46C K46D K46E	K46B K46C K46D K46E
	J19D	K46D K46F K46G K46I	K46D K46E K46F K46G K46H	K46D K46E K46F K46G K46H	K46D K46E K46F K46G K46H	K46D K46E K46F K46G K46H	K46D K46E K46F K46G K46H
	J19C	K46C	K46G K46H	K46G K46H	K46G K46H	K46G K46H	K46G K46H
	J19E	K46H	K46I K46J	K46I K46J	K46I K46J	K46I K46J	K46H K46I
	J20	K47 K48:1-9	K47 K48:1-9 K49 K50	K47 K48:1-9 K49 K50	K47 K48:1-8 K49 K50	K47 K48:1-8 K49 K50	K47 K48:1-8 K49 K50

<u>LL11</u>	<u>LL21</u>	<u>LL12</u>	<u>LL22</u>	<u>LL13</u>	<u>LL23</u>	<u>LL14</u>	<u>LL24</u>
IHREN IMNEN IAPEN	JHREN JMNEN JAPEN	KHREN KMNEN KAPEN	K51:HR K51:MN K51:AP K51X K51X:A1 K51X:A2 K51X:A3 KSTAT	K51:HR K51:MN K51:AP K51X K51X:A1 K51X:A2 K51X:A3 KSTAT	K51:HR K51:MN K51:AP K51X K51X:A1 K51X:A2 K51X:A3	K51:HR K51:MN K51:AP K51X K51X:A1 K51X:A2 K51X:A3	K51:HR K51:MN K51:AP K51X K51X:A1 K51X:A2 K51X:A3
IMST	JSTA	KSTAT					

Previous Owner Supplement

<u>LL11</u>	<u>LL21</u>	<u>LL12</u>	<u>LL22</u>	<u>LL13</u>	<u>LL23</u>	<u>LL14</u>	<u>LL24</u>
			P1	P1			
	P1	P2	P2B	P2B	P1	P1	P1
	P2	P3	P2C	P2C	P2B	P2B	P2B
	P3	P4	P2D	P2D	P2C	P2C	P2C
	P4	P5	P2E	P2E	P2D	P2D	P2D
	PHRBG	PHRBG	P3:HR	P3:HR	P3:HR	P3:HR	P3:HR
	PMNBG	PMNBG	P3:MN	P3:MN	P3:MN	P3:MN	P3:MN
	PAPBG	PAPBG	P3:AP	P3:AP	P3:AP	P3:AP	P3:AP
					P4:MO	P4:MO	P4:MO
					P4:DA	P4:DA	P4:DA
					P4:YR	P4:YR	P4:YR
	P5	P6					
	P6	P7					
	P7	P8					
	P8	P9	P4	P4	P4A	P4A	P4A
	P9	P10					
		P11-P48					
			P5	P5	P5	P5	P5
			P6	P6	P6	P6	P6
		P92			P7	P7	P7
	P30	P79	P7	P7	P7A	P7A	P7A
	P10	P50					
		P51			P8	P8	P8
		{ P52 }	P8	P8	P8A	P8A	P8A
	P101	{ P53 }					
		{ P54 }					
		{ P145 }					
	P11	P55	P9	P9	P9	P9	P9
		P56			P9A	P9A	P9A
	P12	P57	P10	P10	P10	P10	P10
	P13	P58			P10A	P10A	P10A
	P14	P59					
	P15	P60					
	P16:1-5						
	P17:1-5	P62:1-5					
	P18:1-5	P61:1-5					
	P19:2-4	P63:2-4					
	P20:1	P64:1					
		P65					
		P66					
	P21	P69					
	P22	P70					
	P23	P71					
	P24	P72					
	P25:A-E	P73:A-E					
	P26	P74					
	P27	P67					
	P28	P68					
		P75					
		P76					
		P77					
	P29	P78					

<u>LL11</u>	<u>LL21</u>	<u>LL12</u>	<u>LL22</u>	<u>LL13</u>	<u>LL23</u>	<u>LL14</u>	<u>LL24</u>
	P70:C	P116:B	PD20B	PD20B	PD20B	PD20B	PD20B
	P70:D	{ P116:C	PD20C	PD20C	PD20C	PD20C	PD20C
		{ P116:D	PD20D	PD20D	PD20D	PD20D	PD20D
	P70:E	P116:E	PD20E	PD20E	PD20E	PD20E	PD20E
	P71	P117	PD21	PD21	PD21	PD21	PD21
	P72:A						
	P72:B	P118:A	PD22A	PD22A	PD22A	PD22A	PD22A
	P72:C	P118:B	PD22B	PD22B	PD22B	PD22B	PD22B
	P72:D	{ P118:C	PD22C	PD22C	PD22C	PD22C	PD22C
		{ P118:D	PD22D	PD22D	PD22D	PD22D	PD22D
	P72:E	P118:E	PD22E	PD22E	PD22E	PD22E	PD22E
	P73	P119	PD23	PD23	PD23	PD23	PD23
	P74:A						
	P74:B	P120:A	PD24A	PD24A	PD24A	PD24A	PD24A
	P74:C	P120:B	PD24B	PD24B	PD24B	PD24B	PD24B
	P74:D	{ P120:C	PD24C	PD24C	PD24C	PD24C	PD24C
		{ P120:D	PD24D	PD24D	PD24D	PD24D	PD24D
	P74:E	P120:E	PD24E	PD24E	PD24E	PD24E	PD24E
	P75	P121	PD25	PD25	PD25	PD25	PD25
	P77	P123	PD26	PD26	PD26	PD26	PD26
	P76	P122	PD27	PD27	PD27	PD27	PD27
	P78	P124	PD28	PD28	PD28	PD28	PD28
	P79	P125	PD29	PD29	PD29	PD29	PD29
	P81	P127	PD30	PD30	PD30	PD30	PD30
	P80	P126	PD31	PD31	PD31	PD31	PD31
			PD32	PD32	PD32	PD32	PD32
	P82	P128	PD33	PD33	PD33	PD33	PD33
	P83						
	P84	P129					
	P85	P130	PD34	PD34	PD34	PD34	PD34
	P86	P131:A-B	PD35A-B	PD35A-B	PD35A-B	PD35A-B	PD35A-B
	P87	P132	PD36	PD36	PD36	PD36	PD36
	P88	P133	PD37	PD37	PD37	PD37	PD37
	P89	P134:A-B	PD38A-B	PD38A-B	PD38A-B	PD38A-B	PD38A-B
	P90	P135	PD39	PD39	PD39	PD39	PD39
	P91	P136	PD40	PD40	PD40	PD40	PD40
	P92	P137	PD41	PD41	PD41	PD41	PD41
	P93	P138	PD42	PD42	PD42	PD42	PD42
	P94	P139	PD43	PD43	PD43	PD43	PD43
			PD43A	PD43A	PD43A	PD43A	PD43A
	P95	P140	PD44	PD44	PD44	PD44	PD44
	P96						
	P97	P141	PD45	PD45	PD45	PD45	PD45
	P98	P142	PD46	PD46	PD46	PD46	PD46
	P99	P143	PD47	PD47	PD47	PD47	PD47
	P100	P144	PD48	PD48	PD48	PD48	PD48
	P102	P146	PD49	PD49	PD49	PD49	PD49
		P147	PD50	PD50	PD50	PD50	PD50
	P103	P148	PD51	PD51	PD51	PD51	PD51
	P104	P149	PD52	PD52	PD52	PD52	PD52
	P105	P150	PD53	PD53	PD53	PD53	PD53
	P106	P151	PD54	PD54	PD54	PD54	PD54
	P107	P152	PD55	PD55	PD55	PD55	PD55
	P108	P153	PD56	PD56	PD56	PD56	PD56
	P109	P154	PD57	PD57	PD57	PD57	PD57
	P110	P155	PD58	PD58	PD58	PD58	PD58
	P111	P156	PD59	PD59	PD59	PD59	PD59
	P112	P157	PD60	PD60	PD60	PD60	PD60
	P113	P158	PD61	PD61	PD61	PD61	PD61
	P114	P159	PD62	PD62	PD62	PD62	PD62
	P115	P160	PD63	PD63	PD63	PD63	PD63
	P116	P161					
	P117	P162	PD64	PD64	PD64	PD64	PD64
	P118	P163	PD65	PD65	PD65	PD65	PD65
	P119	P164					
	P120	P165					
	P121	P166					
			PD66	PD66	PD66	PD66	PD66
	P122	P167	PD67	PD67	PD67	PD67	PD67

<u>LL11</u>	<u>LL21</u>	<u>LL12</u>	<u>LL22</u>	<u>LL13</u>	<u>LL23</u>	<u>LL14</u>	<u>LL24</u>
	P123	P168	PD68	PD68	PD68	PD68	PD68
	P124	P169	PD69	PD69	PD69	PD69	PD69
	P125	P170					
	P126:A-E	P171:A-E					
	P127	P172	PD70	PD70	PD70	PD70	PD70
		P173	PD71	PD71	PD71	PD71	PD71
	P128		PD72	PD72	PD72	PD72	PD72
	P129		PD73	PD73	PD73	PD73	PD73
	P130		PD74	PD74	PD74	PD74	PD74
	P131		PD75	PD75	PD75	PD75	PD75
	P132		PD76	PD76			
	P133		PD77A-F	PD77A-F			
			PD78A-F	PD78A-F			
			PD79	PD79	PD79	PD79	PD79
			PD80	PD80			
	P134		PD81	PD81	PD81	PD81	PD81
	P135						
	P136	P174					
		P175					
	P137	P176	PD82	PD82			
	P138:A						
	P138:B						
	P138:C	P177:A	PD83A	PD83A			
	P138:D	P177:B	PD83B	PD83B			
	P138:E	P177:C	PD83C	PD83C			
	P138:F	P177:D	PD83D	PD83D			
	P138:G	P177:E	PD83E	PD83E			
	P138:H	P177:F	PD83F	PD83F			
	P138:I	P177:G	PD83G	PD83G			
	P138:J		PD83H	PD83H			
	P138:K	P177:H					
	P139	P243					
	P140						
		P244					
	P141	P245					
	P142	P246					
	P143						
		P247					
		P248					
		P249					
	P144	P250					
	P145	P251					
	P146						
	P147						
		P251:A					
	P171	P198	PE3	PE3	PE3	PE3	PE3
	P172	P199	PE3A	PE3A	PE3A	PE3A	PE3A
	P173	P200	PE4	PE4	PE4	PE4	PE4
	P173:A	P201	PE4A	PE4A	PE4A	PE4A	PE4A
			PE5A-G	PE5A-G			
	P148	P178	PE6	PE6	PE6	PE6	PE6
	P151	P179	PE7	PE7	PE7	PE7	PE7
			PE8	PE8			
			PE9	PE9			
	P149:A	P180	PE10A	PE10A			
	P149:B	P181:A	PE10B	PE10B			
	P149:C	P181:B	PE10C	PE10C			
	P149:D	P181:C	PE10D	PE10D			
	P149:E	P181:D	PE10E	PE10E			
	P149:F } P149:G }	P181:E					
	P150						
	P152:1-5						
	P155:1-5 } P166 }	P184	PE13	PE13	PE13	PE13	PE13
	P167						
	P156:1-5	P185	PE14	PE14	PE14	PE14	PE14
	P157:1-5 } P168 }	P186	PE15	PE15	PE15	PE15	PE15

<u>LL11</u>	<u>LL21</u>	<u>LL12</u>	<u>LL22</u>	<u>LL13</u>	<u>LL23</u>	<u>LL14</u>	<u>LL24</u>
	P169						
	P158:1-5	P187	PE16	PE16	PE16	PE16	PE16
		P188					
	P159:1-5	P190	PE17	PE17	PE17	PE17	PE17
	P160:1-5	P191	PE18	PE18	PE18	PE18	PE18
	P170						
	P161:1-5	P192	PE19	PE19	PE19	PE19	PE19
		P195:A	PE20A	PE20A	PE20A	PE20A	PE20A
		P195:B	PE20B	PE20B	PE20B	PE20B	PE20B
		P195:C	PE20C	PE20C	PE20C	PE20C	PE20C
		P196	PE21	PE21	PE21	PE21	PE21
		P197:A	PE22A	PE22A	PE22A	PE22A	PE22A
		P197:B	PE22B	PE22B	PE22B	PE22B	PE22B
		P197:C	PE22C	PE22C	PE22C	PE22C	PE22C
		P193	PE23	PE23	PE23	PE23	PE23
		P194	PE24	PE24	PE24	PE24	PE24
	P162:1-5						
	P163						
	P174:1-5	P202:1-5	PE25:1-5	PE25:1-5	PE25:1-5	PE25:1-5	PE25:1-5
	P175:1-5	P203:1-5	PE26:1-5	PE26:1-5	PE26:1-5	PE26:1-5	PE26:1-5
	P176:1-5	P204:1-5	PE27:1-5	PE27:1-5	PE27:1-5	PE27:1-5	PE27:1-5
	P177:1-5	P205:1-5	PE28:1-5	PE28:1-5	PE28:1-5	PE28:1-5	PE28:1-5
	P178:6	P206:6	PE25:6	PE25:6	PE25:6	PE25:6	PE25:6
	P179:6	P207:6	PE26:6	PE26:6	PE26:6	PE26:6	PE26:6
	P180:6	P208:6	PE27:6	PE27:6	PE27:6	PE27:6	PE27:6
	P181:6	P209:6	PE28:6	PE28:6	PE28:6	PE28:6	PE28:6
	P178:8	P206:8	PE25:7	PE25:7	PE25:7	PE25:7	PE25:7
	P179:8	P207:8	PE26:7	PE26:7	PE26:7	PE26:7	PE26:7
	P180:8	P208:8	PE27:7	PE27:7	PE27:7	PE27:7	PE27:7
	P181:8	P209:8	PE28:7	PE28:7	PE28:7	PE28:7	PE28:7
	P178:7	P206:7	PE25:8	PE25:8	PE25:8	PE25:8	PE25:8
	P179:7	P207:7	PE26:8	PE26:8	PE26:8	PE26:8	PE26:8
	P180:7	P208:7	PE27:8	PE27:8	PE27:8	PE27:8	PE27:8
	P181:7	P209:7	PE28:8	PE28:8	PE28:8	PE28:8	PE28:8
	P178:9	P206:9	PE25:9	PE25:9	PE25:9	PE25:9	PE25:9
	P179:9	P207:9	PE26:9	PE26:9	PE26:9	PE26:9	PE26:9
	P180:9	P208:9	PE27:9	PE27:9	PE27:9	PE27:9	PE27:9
	P181:9	P209:9	PE28:9	PE28:9	PE28:9	PE28:9	PE28:9
	P178:10	P206:10	PE25:10	PE25:10	PE25:10	PE25:10	PE25:10
	P179:10	P207:10	PE26:10	PE26:10	PE26:10	PE26:10	PE26:10
	P180:10	P208:10	PE27:10	PE27:10	PE27:10	PE27:10	PE27:10
	P181:10	P209:10	PE28:10	PE28:10	PE28:10	PE28:10	PE28:10
	P182:11	P210:11	PE25:11	PE25:11	PE25:11	PE25:11	PE25:11
	P183:11	P211:11	PE26:11	PE26:11	PE26:11	PE26:11	PE26:11
	P184:11	P212:11	PE27:11	PE27:11	PE27:11	PE27:11	PE27:11
	P185:11	P213:11	PE28:11	PE28:11	PE28:11	PE28:11	PE28:11
	P182:12	P210:12	PE25:12	PE25:12	PE25:12	PE25:12	PE25:12
	P183:12	P211:12	PE26:12	PE26:12	PE26:12	PE26:12	PE26:12
	P184:12	P212:12	PE27:12	PE27:12	PE27:12	PE27:12	PE27:12
	P185:12	P213:12	PE28:12	PE28:12	PE28:12	PE28:12	PE28:12
	P182:13	P210:13	PE25:13	PE25:13	PE25:13	PE25:13	PE25:13
	P183:13	P211:13	PE26:13	PE26:13	PE26:13	PE26:13	PE26:13
	P184:13	P212:13	PE27:13	PE27:13	PE27:13	PE27:13	PE27:13
	P185:13	P213:13	PE28:13	PE28:13	PE28:13	PE28:13	PE28:13
		P210:14	PE25:14	PE25:14	PE25:14	PE25:14	PE25:14
		P211:14	PE26:14	PE26:14	PE26:14	PE26:14	PE26:14
		P212:14	PE27:14	PE27:14	PE27:14	PE27:14	PE27:14
		P213:14	PE28:14	PE28:14	PE28:14	PE28:14	PE28:14
	P186	P214					
	P187:1	P215:1	PE32:1	PE32:1	PE32:1	PE32:1	PE32:1
	P188:1	P216:1	PE33:1	PE33:1	PE33:1	PE33:1	PE33:1
	P190:A1	P218:A1	PE34A:1	PE34A:1	PE34A:1	PE34A:1	PE34A:1
	P190:B1	P218:B1	PE34B:1	PE34B:1	PE34B:1	PE34B:1	PE34B:1
	P190:C1	P218:C1	PE34C:1	PE34C:1	PE34C:1	PE34C:1	PE34C:1
	P190:D1	P218:D1	PE34D:1	PE34D:1	PE34D:1	PE34D:1	PE34D:1
	P189:A1	P217:A1	PE35A:1	PE35A:1	PE35A:1	PE35A:1	PE35A:1
			PE35B:1	PE35B:1	PE35B:1	PE35B:1	PE35B:1
	P189:B1	P217:B1	PE35C:1	PE35C:1	PE35C:1	PE35C:1	PE35C:1
	P189:C1	P217:C1	PE35D:1	PE35D:1	PE35D:1	PE35D:1	PE35D:1
	P187:2	P215:2	PE32:2	PE32:2	PE32:2	PE32:2	PE32:2

LL11	LL21	LL12	LL22*	LL13*	LL23**	LL14**	LL24**
P188:2	P216:2	PE33:2	PE33:2	PE33:2	PE33:2	PE33:2	PE33:2
P190:A2	P218:A2	PE34A:2	PE34A:2	PE34A:2			
P190:B2	P218:B2	PE34B:2	PE34B:2	PE34B:2			
P190:C2	P218:C2	PE34C:2	PE34C:2	PE34C:2			
P190:D2	P218:D2	PE34D:2	PE34D:2	PE34D:2			
P189:A2	P217:A2	{ PE35A:2	PE35A:2	PE35A:2	PE35A:2	PE35A:2	PE35A:2
		{ PE35B:2	PE35B:2	PE35B:2	PE35B:2	PE35B:2	PE35B:2
P189:B2	P217:B2	PE35C:2	PE35C:2	PE35C:2	PE35C:2	PE35C:2	PE35C:2
P189:C2	P217:C2	PE35D:2	PE35D:2	PE35D:2	PE35D:2	PE35D:2	PE35D:2
P187:3	P215:3	PE32:3	PE32:3	PE32:3	PE32:3	PE32:3	PE32:3
P188:3	P216:3	PE33:3	PE33:3	PE33:3	PE33:3	PE33:3	PE33:3
P189:A3	P217:A3	{ PE35A:3	PE35A:3	PE35A:3	PE35A:3	PE35A:3	PE35A:3
		{ PE35B:3	PE35B:3	PE35B:3	PE35B:3	PE35B:3	PE35B:3
P189:B3	P217:B3	PE35C:3	PE35C:3	PE35C:3	PE35C:3	PE35C:3	PE35C:3
P189:C3	P217:C3	PE35D:3	PE35D:3	PE35D:3	PE35D:3	PE35D:3	PE35D:3
P187:A4	P215:A4	PE32A:4	PE32A:4	PE32A:4	PE32A:4	PE32A:4	PE32A:4
P187:B4	P215:B4	PE32B:4	PE32B:4	PE32B:4	PE32B:4	PE32B:4	PE32B:4
P188:4	P216:4	PE33:4	PE33:4	PE33:4	PE33:4	PE33:4	PE33:4
P190:B4	P218:B4	PE34A:4	PE34A:4	PE34A:4			
P190:A4	P218:A4	PE34B:4	PE34B:4	PE34B:4			
P189:A4	P217:A4	{ PE35A:4	PE35A:4	PE35A:4	PE35A:4	PE35A:4	PE35A:4
		{ PE35B:4	PE35B:4	PE35B:4	PE35B:4	PE35B:4	PE35B:4
P189:B4	P217:B4	PE35C:4	PE35C:4	PE35C:4	PE35C:4	PE35C:4	PE35C:4
P189:C4	P217:C4	PE35D:4	PE35D:4	PE35D:4	PE35D:4	PE35D:4	PE35D:4
P187:5	P215:5	PE32:5	PE32:5	PE32:5	PE32:5	PE32:5	PE32:5
P188:5	P216:5	PE33:5	PE33:5	PE33:5	PE33:5	PE33:5	PE33:5
P189:A5	P217:A5	{ PE35A:5	PE35A:5	PE35A:5	PE35A:5	PE35A:5	PE35A:5
		{ PE35B:5	PE35B:5	PE35B:5	PE35B:5	PE35B:5	PE35B:5
P191:1	P219:1	PE32:6	PE32:6	PE32:6	PE32:6	PE32:6	PE32:6
P192:1	P220:1	PE33:6	PE33:6	PE33:6	PE33:6	PE33:6	PE33:6
P193:A1	P221:A1	{ PE35A:6	PE35A:6	PE35A:6	PE35A:6	PE35A:6	PE35A:6
		{ PE35B:6	PE35B:6	PE35B:6	PE35B:6	PE35B:6	PE35B:6
P193:B1	P221:B1	PE35C:6	PE35C:6	PE35C:6	PE35C:6	PE35C:6	PE35C:6
P193:C1	P221:C1	PE35D:6	PE35D:6	PE35D:6	PE35D:6	PE35D:6	PE35D:6
P191:2	P219:2	PE32:7	PE32:7	PE32:7	PE32:7	PE32:7	PE32:7
P192:2	P220:2	PE33:7	PE33:7	PE33:7	PE33:7	PE33:7	PE33:7
P193:2	P221:A2	{ PE35A:7	PE35A:7	PE35A:7	PE35A:7	PE35A:7	PE35A:7
		{ PE35B:7	PE35B:7	PE35B:7	PE35B:7	PE35B:7	PE35B:7
P194	P222	PE36	PE36	PE36	PE36	PE36	PE36
P196:A1-5	P223:A1-5	PE37A:1-5	PE37A:1-5	PE37A:1-3	PE37A:1-3	PE37A:1-3	PE37A:1-3
P196:B1-5	P223:B1-5	PE37B:1-5	PE37B:1-5	PE37B:1-3	PE37B:1-3	PE37B:1-3	PE37B:1-3
P196:C1-5	P223:C1-5	PE37C:1-5	PE37C:1-5	PE37C:1-3	PE37C:1-3	PE37C:1-3	PE37C:1-3
P195:A1-5	P224:A1-5	PE38A:1-5	PE38A:1-5	PE38A:1-3	PE38A:1-3	PE38A:1-3	PE38A:1-3
P195:B1-5	P224:B1-5	PE38B:1-5	PE38B:1-5	PE38B:1-3	PE38B:1-3	PE38B:1-3	PE38B:1-3
P195:C1-5	P224:C1-5	PE38C:1-5	PE38C:1-5	PE38C:1-3	PE38C:1-3	PE38C:1-3	PE38C:1-3
P195:D1-5	P224:D1-5	PE38D:1-5	PE38D:1-5	PE38D:1-3	PE38D:1-3	PE38D:1-3	PE38D:1-3
P195:E1-5	P224:E1-5	PE38E:1-5	PE38E:1-5	PE38E:1-3	PE38E:1-3	PE38E:1-3	PE38E:1-3
P195:F1-5	P224:F1-5	PE38F:1-5	PE38F:1-5	PE38F:1-3	PE38F:1-3	PE38F:1-3	PE38F:1-3
P195:G1-5	P224:G1-5	PE38G:1-5	PE38G:1-5	PE38G:1-3	PE38G:1-3	PE38G:1-3	PE38G:1-3
P197:A1-5	P225:A1-5	PE39A:1-5	PE39A:1-5	PE39A:1-3	PE39A:1-3	PE39A:1-3	PE39A:1-3
P197:B1-5	P225:B1-5	PE39B:1-5	PE39B:1-5	PE39B:1-3	PE39B:1-3	PE39B:1-3	PE39B:1-3
P197:C1-5	P225:C1-5	PE39C:1-5	PE39C:1-5	PE39C:1-3	PE39C:1-3	PE39C:1-3	PE39C:1-3
P198	P226	PE40	PE40	PE40			
P199:C	P227:B	PE41A	PE41A	PE41A			
P199:A	{ P227:A	PE41B	PE41B				
P199:B							
P199:D	P227:C	PE41C	PE41C				
P199:E	P227:D	PE41D	PE41D				
P199:F	P227:E	PE41E	PE41E				
		PFB2:HR	PFB2:HR	PFB2:HR	PFB2:HR	PFB2:HR	PFB2:HR
		PFB2:MN	PFB2:MN	PFB2:MN	PFB2:MN	PFB2:MN	PFB2:MN
		PFB2:AP	PFB2:AP	PFB2:AP	PFB2:AP	PFB2:AP	PFB2:AP
		PFBCA	PFBCA	PFBCA	PFBCA	PFBCA	PFBCA
		PFBCB	PFBCB	PFBCB	PFBCB	PFBCB	PFBCB
P201	P230	PFA4	PFA4	PFA4	PFA4	PFA4	PFA4
P202:1-15	P231:1-15	PFA5:1-15	PFA5:1-15	PFA5:1-15	PFA5:1-15	PFA5:1-15	PFA5:1-15

*In this column, read PFA as PF(A-C); read PFB as PF(B-C).

**In this column, read PFA as PF(A-B).

<u>LL11</u>	<u>LL21</u>	<u>LL12</u>	<u>LL22*</u>	<u>LL13*</u>	<u>LL23**</u>	<u>LL14**</u>	<u>LL24**</u>
	P203:1-15	P232:1-15	PFA6:1-15	PFA6:1-15	PFA6:1-15	PFA6:1-15	PFA6:1-15
	P204:1-15	P234:A1-15					
	P205:2-15	P233:2-15					
	P206:A1-15	P234:B1-15					
	P206:B1-15	P234:C1-15					
	P206:C1-15	P234:D1-15					
	P206:D1-15	P234:E1-15					
	P207:1-15						
	P208:1-15	P235:1-15	PFA7:1-15	PFA7:1-15	PFA7:1-15	PFA7:1-15	PFA7:1-15
			PFA8:1-15	PFA8:1-15	PFA8:1-15	PFA8:1-15	PFA8:1-15
	P209:1-15	P236:1-15	PFA8A:1-15	PFA8A:1-15	PFA8A:1-15	PFA8A:1-15	PFA8A:1-15
			PFA9:1-15	PFA9:1-15			
			PFA10:1-15	PFA10:1-15			
			PFA11:1-15	PFA11:1-15			
			PFA12A1-15	PFA12A1-15			
			PFA12B1-15	PFA12B1-15			
			PFA12C1-15	PFA12C1-15			
			PFA12D1-15	PFA12D1-15			
			PFA12E1-15	PFA12E1-15			
			PFA12F1-15	PFA12F1-15			
			PFA12G1-15	PFA12G1-15			
			PFA12H1-15	PFA12H1-15			
			PFA12I1-15	PFA12I1-15			
	P210:1-15	P237:1-15	PFA13:1-15	PFA13:1-15	PFA13:1-15	PFA13:1-15	PFA13:1-15
	P211						
	P212	P238	PFA14	PFA14			
	P213	P239	PFA15	PFA15			
		P240					
		P241					
		P242	PFA16	PFA16	PFA16	PFA16	PFA16
			PFA17	PFA17	PFA17	PFA17	PFA17
			PFA17A	PFA17A	PFA17A	PFA17A	PFA17A
			PFA18	PFA18	PFA18	PFA18	PFA18
			PFA18A	PFA18A	PFA18A	PFA18A	PFA18A
			PFA19	PFA19	PFA19	PFA19	PFA19
			PFA20	PFA20	PFA20	PFA20	PFA20
			PFA20A	PFA20A	PFA20A	PFA20A	PFA20A
			PFA21	PFA21	PFA21	PFA21	PFA21
			PFA22	PFA22	PFA22	PFA22	PFA22
			PFA23	PFA23	PFA23	PFA23	PFA23
			PFA23A	PFA23A	PFA23A	PFA23A	PFA23A
			PFA24	PFA24	PFA24	PFA24	PFA24
			PFA24A	PFA24A	PFA24A	PFA24A	PFA24A
			PFA25	PFA25	PFA25	PFA25	PFA25
			PFA26	PFA26	PFA26	PFA26	PFA26
			PFA26A	PFA26A	PFA26A	PFA26A	PFA26A
			PFA27	PFA27	PFA27	PFA27	PFA27
			PFA28	PFA28	PFA28	PFA28	PFA28
			PFA29	PFA29	PFA29	PFA29	PFA29
			PFA29A	PFA29A	PFA29A	PFA29A	PFA29A
			PFA30	PFA30	PFA30	PFA30	PFA30
			PFA30A	PFA30A	PFA30A	PFA30A	PFA30A
			PFA31	PFA31	PFA31	PFA31	PFA31
			PFA32	PFA32	PFA32	PFA32	PFA32
			PFA32A	PFA32A	PFA32A	PFA32A	PFA32A
			PFA33	PFA33	PFA33	PFA33	PFA33
			PFA34	PFA34	PFA34	PFA34	PFA34
	P214	P252	PFA35	PFA35			
	P215:A	P253:A	PFA36A	PFA36A			
	P215:B	P253:B	PFA36B	PFA36B			
	P215:C	P253:D					
	P215:D	P253:C	PFA36C	PFA36C			
			PFB37:H	PFB37:H	PFB37:HR	PFB37:HR	PFB37:HR
			PFB37:M	PFB37:M	PFB37:MN	PFB37:MN	PFB37:MN
			PFB37:A	PFB37:A	PFB37:AP	PFB37:AP	PFB37:AP
	P216	P254	PG49	PG49	PG49	PG49	PG49

*In this column, read PFA as PF(A-C); read PFB as PF(B-C).

**In this column, read PFA as PF(A-B).

<u>LL11</u>	<u>LL21</u>	<u>LL12</u>	<u>LL22</u>	<u>LL13</u>	<u>LL23</u>	<u>LL14</u>	<u>LL24</u>
	P217:M1-2	P255:M1-2	PG50M:1-2	PG50M:1-2	PG50M:1-2	PG50M:1-2	PG50M:1-2
	P217:Y1-2	P255:Y1-2	PG50Y:1-2	PG50Y:1-2	PG50Y:1-2	PG50Y:1-2	PG50Y:1-2
	P218:A1-2	P260:A1-2	PG51A:1-2	PG51A:1-2	PG51A:1-2	PG51A:1-2	PG51A:1-2
	P218:B1-2	P260:B1-2	PG51B:1-2	PG51B:1-2	PG51B:1-2	PG51B:1-2	PG51B:1-2
	P218:C1-2	P260:C1-2	PG51C:1-2	PG51C:1-2	PG51C:1-2	PG51C:1-2	PG51C:1-2
	P218:D1-2	P260:D1-2	PG51D:1-2	PG51D:1-2	PG51D:1-2	PG51D:1-2	PG51D:1-2
	P219:1-2	P261:1-2	PG52:1-2	PG52:1-2	PG52:1-2	PG52:1-2	PG52:1-2
	P220:1-2	P262:1-2	PG53:1-2	PG53:1-2	PG53:1-2	PG53:1-2	PG53:1-2
	P221:1-2	P263:1-2	PG54:1-2	PG54:1-2	PG54:1-2	PG54:1-2	PG54:1-2
	P222:1-2	P264:1-2	PG55:1-2	PG55:1-2	PG55:1-2	PG55:1-2	PG55:1-2
	P223	P265	PG56	PG56	PG56	PG56	PG56
	P224:A	P266:A	PG57A	PG57A	PG57A	PG57A	PG57A
	P224:B	P266:B	PG57B	PG57B	PG57B	PG57B	PG57B
	P225	P267	PG58	PG58	PG58	PG58	PG58
	P226:A	P268	PG59	PG59	PG59	PG59	PG59
	P226:B	P268:A	PG59A	PG59A	PG59A	PG59A	PG59A
	P226:C	P268:B	PG59B	PG59B	PG59B	PG59B	PG59B
		P269					
		P270:A					
		P270:B					
		P271					
	P227	P272	PG60	PG60	PG60	PG60	PG60
	P228	P273	PG61	PG61	PG61	PG61	PG61
	P229:A1-3	P274:A1-2	PG62A:1-2	PG62A:1-2	PG62A:1-2	PG62A:1-2	PG62A:1-2
	P229:B1-3	P274:B1-2	PG62B:1-2	PG62B:1-2	PG62B:1-2	PG62B:1-2	PG62B:1-2
	P229:C1-3	P274:C1-2	PG62C:1-2	PG62C:1-2	PG62C:1-2	PG62C:1-2	PG62C:1-2
	P229:D1-3	P274:D1-2	PG62D:1-2	PG62D:1-2	PG62D:1-2	PG62D:1-2	PG62D:1-2
	P229:E1-3	P274:E1-2	PG62E:1-2	PG62E:1-2	PG62E:1-2	PG62E:1-2	PG62E:1-2
	P229:F1-3	P274:F1-2	PG62F:1-2	PG62F:1-2	PG62F:1-2	PG62F:1-2	PG62F:1-2
	P229:G1-3	P274:G1-2	PG62G:1-2	PG62G:1-2	PG62G:1-2	PG62G:1-2	PG62G:1-2
	P229:H1-3	P274:H1-2	PG62H:1-2	PG62H:1-2	PG62H:1-2	PG62H:1-2	PG62H:1-2
	P230:1-3	P275:1-2	PG63:1-2	PG63:1-2	PG63:1-2	PG63:1-2	PG63:1-2
	P231:1-3	P276:1-2	PG64:1-2	PG64:1-2	PG64:1-2	PG64:1-2	PG64:1-2
	P232:1-3						
	P233:1-3	P277:1-2	PG65:1-2	PG65:1-2	PG65:1-2	PG65:1-2	PG65:1-2
	P234	P278	PG66	PG66	PG66	PG66	PG66
	P235						
		P279:A-H	PG67A-H	PG67A-H	PG67A-H	PG67A-H	PG67A-H
		P280	PG68	PG68	PG68	PG68	PG68
		P281	PG69	PG69	PG69	PG69	PG69
		P282	PG70	PG70	PG70	PG70	PG70
	P236	P283	PG71	PG71	PG71	PG71	PG71
	P237	P284	PG72	PG72	PG72	PG72	PG72
	P238	P285	PG73	PG73	PG73	PG73	PG73
	P239:1-5	P286:1-5					
	P240	P287	PG76	PG76	PG76	PG76	PG76
	P241:B1-3	P288:B1-3	PG77B:1-3	PG77B:1-3	PG77B:1-3	PG77B:1-3	PG77B:1-3
	P241:A1-3	P288:C1-3	PG77C:1-3	PG77C:1-3	PG77C:1-3	PG77C:1-3	PG77C:1-3
	P242:1-3	P289:1-3	PG78:1-3	PG78:1-3	PG78:1-3	PG78:1-3	PG78:1-3
	P243:1-3	P290:1-3	PG79:1-3	PG79:1-3	PG79:1-3	PG79:1-3	PG79:1-3
	P244:1-2	P291:1-2	PG80:1-2	PG80:1-2	PG80:1-2	PG80:1-2	PG80:1-2
	P245	P292	PG81:3	PG81:3			
			PG82A	PG82A			
			PG82B	PG82B			
			PG82C	PG82C			
	P246:A	P293:A	PG82D	PG82D			
	P246:B	P293:B	PG82E	PG82E			
	P246:C	P293:C	PG82F	PG82F			
	P246:D	P293:D	PG82G	PG82G			
	P246:E	P293:E	PG82H	PG82H			
	PHREN	PHREN	PG83:HR	PG83:HR	PG83:HR	PG83:HR	PG83:HR
	PMNEN	PMNEN	PG83:MN	PG83:MN	PG83:MN	PG83:MN	PG83:MN
	PAPEN	PAPEN	PG83:AP	PG83:AP	PG83:AP	PG83:AP	PG83:AP
			PG84	PG84	PG84	PG84	PG84

Landlord Record Folder

<u>LL11</u>	<u>LL21</u>	<u>LL12</u>	<u>LL22</u>	<u>LL13</u>	<u>LL23</u>	<u>LL14</u>	<u>LL24</u>
UIN1D:1	UIID1	UID:1A-B	UID1:A-B	UID1:A-B	UID1	UID1A-B	UID1
UIN1D:2	UIID2	UID:2A-B	UID2:A-B	UID2:A-B	UID2	UID2A-B	UID2
UIN1D:3			UID3:A-B	UID3:A-B	UID3	UID3A-B	UID3
UIN1D:4							UID4
UIN1D:5							UID5
UIN1D:6							
UATMPTS							
UFMONTH	UCMMO	UPDATE:M	UCD:MO	UCD:MO	UIFD:MO	UIFD:MO	UIFD:MO
UFDAY	UCMDA	UPDATE:D	UCD:DY	UCD:DY	UIFD:DY	UIFD:DY	UIFD:DY
UFYEAR	UCMYR	UPDATE:Y					
UFSTAT	U1	UFSC	U1FS	U1FS	U2FS	U2FS	U2FS
	U2:4	UCONT:4	U2A	U2A	U3A	U3A	U3A
	U2:1	UCONT:1	U2B	U2B	U3B	U3B	U3B
	U2:2	UCONT:2	U2C	U2C	U3C	U3C	U3C
	U2:3	UCONT:3	U2D	U2D	U3D	U3D	U3D
	U2:5	UCONT:5	U2E	U2E	U3E	U3E	U3E
			U2F	U2F			
			U2G	U2G	U3F	U3F	U3F
			UAN:1-8	UAN:1-8	U3G	U3G	U3G
UPDATE:M1-6	U(1-12):A1	U(1-12)A1	UMO:1-8	UMO:1-8	UAT1-9	UAT1-9	UAT1-9
UPDATE:D1-6	U(1-12):A2	U(1-12)A2	UDY:1-8	UDY:1-8	U(1-9):AM	U(1-9):AM	U(1-9):AM
UPDATE:Y1-6					U(1-9):AD	U(1-9):AD	U(1-9):AD
	U(1-12):B	U(1-12)A3	UDAY:1-8	UDAY:1-8	U(1-9):DA	U(1-9):DA	U(1-9):DA
UTIME:H1-6	U(1-12):C1	U(1-12)B1	UBHR:1-8	UBHR:1-8	U(1-9):BH	U(1-9):BH	U(1-9):BH
UTIME:M1-6	U(1-12):C2	U(1-12)B2	UBMN:1-8	UBMN:1-8	U(1-9):BM	U(1-9):BM	U(1-9):BM
UAMPH:1-6	U(1-12):C3	U(1-12)B3	UBAP:1-8	UBAP:1-8	U(1-9):BPM	U(1-9):BPM	U(1-9):BPM
	U(1-12):D	U(1-12)C1	UBTP:1-8	UBTP:1-8	U(1-9):CPT	U(1-9):CPT	U(1-9):CPT
	U(1-12):E	U(1-12)D1	UD:1-8	UD:1-8	U(1-9):D	U(1-9):D	U(1-9):D
		U(1-12)E1					
	U(1-12):F	U(1-12)F1	UE:1-8	UE:1-8	U(1-9):E	U(1-9):E	U(1-9):E

Validation Form

<u>LL11</u>	<u>LL21</u>	<u>LL12</u>	<u>LL22</u>	<u>LL13</u>	<u>LL23</u>	<u>LL14</u>	<u>LL24</u>
			VLSM	VLSM	VLSM	VLSM	VLSM
			VLIDA-B	VLIDA-B	VLINT	VLINT	VLINT
VSMON }	VLINID	VLINID					
VMMON }	VL:M	VLD:M					
VSDAY }	VL:D	VLD:D					
VMDAY }							
VSYR }	VL:Y	VLD:Y					
VMYR }							
VSEMID }	VLID	VLVNIID	VLVDA-B	VLVDA-B	VLVAL	VLVAL	VLVAL
VMEMID }							
VSSTAT }	VLSTA1	VLSTAT:A	VLFS	VLFS	VLSS	VLSS	VLSS
VMSTAT }					VLFS	VLFS	VLFS
	VLHRBG						
	VLMBG						
	VLAPBG						
	VLSTA2						
	VLCONT	VLCON					
		VLNUM					
							VLFC:A
							VLFC:B
			VLRA-O	VLRA-O	VLA:1-15	VLA:1-15	VLA:1-6
			VLTA-O	VLTA-O	VLR:1-15	VLR:1-15	VLR:1-6
			VLDA-O:MO	VLDA-O:MO	VLTY:1-15	VLTY:1-15	VLTY:1-6
			VLDA-O:DY	VLDA-O:DY	VLMO:1-15	VLMO:1-15	VLMO:1-6
					VLDA:1-15	VLDA:1-15	VLDA:1-6
					VL1:HR	VL1:HR	VL1:HR
					VL1:MN	VL1:MN	VL1:MN
					VL1:AP	VL1:AP	VL1:AP

<u>LL11</u>	<u>LL21</u>	<u>LL12</u>	<u>LL22</u>	<u>LL13</u>	<u>LL23</u>	<u>LL14</u>	<u>LL24</u>
VS1 } VM1 }	VL1 VL2:A-L	VL1:1-5 VL2:A1-5 VL2:B1-5	VL1:1-3	VL1:1-3	VL2 VL3 VL4 VL5 VL6 VL7 VL8	VL2 VL3 VL4 VL5 VL6 VL7 VL8	VL2 VL3 VL4 VL5 VL5A VL6 VL7 VL8
VS2	VL1A	VL3:A1-5 VL3:B1-5 VL3:C1-5A VL3:C1-5B VL3:C1-5C VLSTAT:1-5 VLAL:1-5 VL4:1-2	VL2:1-3 VL2A:1-3 VL2B:1-3	VL2:1-3 VL2A:1-3 VL2B:1-3	VL8 VL8A	VL8 VL8A	VL8 VL8A
VS3A } VM2A } VS3B } VM2B } VS3C } VM3 } VS3D } VM3C } VS3E } VM3D } VS3F } VM3E } VS3G } VM3F } VS3H } VM3G }	VL3:A VL3:B VL4 { VL5:C { VL5:D VL5:E VL5:F VL5:G VL5:H						
			VL3 VL3A VL3B	VL3 VL3A VL3B			
VS4A } VM4A } VS4B } VM4B } VS4C } VM4C } VS4D } VM4D } VS4E } VM4E } VS4F } VM4F } VS4G } VM4G } VS4H } VM4H } VS4I } VM4I } VS4J } VM4J }	VL6:A VL6:B VL6:C VL6:D VL6:E VL6:F VL6:G VL6:H VL6:I VL6:J	VL4:A VL4:B1-3 VL4:X VL4:C					
		VL4:D VL5:1-2 VL5:A VL5:X VL6:1-2 VL6:A-C VL6:X VL7:1-2 VL7:A					

<u>LL11</u>	<u>LL21</u>	<u>LL12</u>	<u>LL22</u>	<u>LL13</u>	<u>LL23</u>	<u>LL14</u>	<u>LL24</u>
		VL7:X VL8:1-2	VL4 VL4A VL4B	VL4 VL4A VL4B			
		VL8:A VL8:X VL9 VL10 VL11:A-D VL11:1-2 VL12:1-2 VL12:A-B VL13:1	VL5 VL5A VL5B	VL5 VL5A VL5B			
		VL13:2					
		VL13:A-C VL14:1-2 VL14:A VL15:1	VL6 VL6A VL6B VL7 VL7A VL7B	VL6 VL6A VL6B VL7 VL7A VL7B			
		VL15:2					
		VL15:A	VL8 VL8A VL8B	VL8 VL8A VL8B			
		VL16	VL9:1-3 VL11A:1-3	VL9:1-3 VL11A:1-3	VL9:A-E VL10:A	VL9:A-E VL10:A	VL9:A-D VL10:A
VS6A } VM6A }	VLR2:A	VL18:A1-5	VL11B:1-3	VL11B:1-3	VL10:B	VL10:B	VL10:B
VS6B } VM6B }	VLR2:B	VL18:B1-5	VL11C:1-3	VL11C:1-3	VL10:C	VL10:C	VL10:C
VS6C } VM6C }	VLR2:C	VL18:C1-5	VL11D:1-3	VL11D:1-3	VL10:D	VL10:D	VL10:D
VS6D } VM6D }	VLR2:D	VL18:D1-5	VL11E:1-3	VL11E:1-3	VL10:E	VL10:E	VL10:E
VS6E } VM6E }	VLR2:E	VL18:E1-5	VL11F:1-3	VL11F:1-3	VL10:F	VL10:F	VL10:F
VS6F } VM6F }	VLR2:F	VL18:F1-5	VL11G:1-3	VL11G:1-3	VL10:G	VL10:G	VL10:G
VS6G } VM6G }	VLR2:G	VL18:G1-5	VL11H:1-3	VL11H:1-3	VL10:H VL10:I	VL10:H VL10:I	VL10:H VL10:I
VS7 } VM7 }	VLR3	VL19:1-5	VL12:1-3	VL12:1-3	VL11 VL12:HR VL12:MN VL12:AP	VL11 VL12:HR VL12:MN VL12:AP	VL11 VL12:HR VL12:MN VL12:AP

Refusal/Breakoff Form

<u>LL11</u>	<u>LL21</u>	<u>LL12</u>	<u>LL22</u>	<u>LL13</u>	<u>LL23</u>	<u>LL14</u>	<u>LL24</u>
			ROU	ROU	ROU	ROU	ROU
RSTAT		REF:1-5 RB:1	RR RB RNI	RR RB RNI	RR RB	RR RB	RR RB
R7:1-5 R8:1-5 R16A:1-5	R7:1-5 R8:1-5 R17:A1-5	R3:1-5 R4:1-5 { R2:A1-5 } { R25:A }	R1:1-6 R2:1-6 R3A:1-6	R1:1-6 R2:1-6 R3A:1-6	R1:1-4 R2:1-4 R4A:1-4	R1:1-4 R2:1-4 R4A:1-4	R1:1-4 R2:1-4 R4A:1-4
R16B:1-5	R17:B1-5	{ R2:B1-5 } { R25:B }	R3B:1-6	R3B:1-6	R4B:1-4	R4B:1-4	R4B:1-4

<u>LL11</u>	<u>LL21</u>	<u>LL12</u>	<u>LL22</u>	<u>LL13</u>	<u>LL23</u>	<u>LL14</u>	<u>LL24</u>
R16C:1-5	R17:C1-5	{ R2:C1-5 R25:C }	R3C:1-6	R3C:1-6	R4C:1-4	R4C:1-4	R4C:1-4
R10A:1-5	R9:A1-5	R1:A1-5	R5A:1-6	R5A:1-6	R5A:1-4	R5A:1-4	R5A:1-4
R10B:1-5	R9:B1-5	R1:B1-5	R5B:1-6	R5B:1-6	R5B:1-4	R5B:1-4	R5B:1-4
R10C:1-5	R9:C1-5	R1:C1-5	R5C:1-6	R5C:1-6	R5C:1-4	R5C:1-4	R5C:1-4
R10D:1-5	R9:D1-5	R1:D1-5	R5D:1-6	R5D:1-6	R5D:1-4	R5D:1-4	R5D:1-4
R10E:1-5	R9:E1-5	R1:E1-5	R5E:1-6	R5E:1-6	R5E:1-4	R5E:1-4	R5E:1-4
R10F:1-5	R9:F1-5	R1:F1-5	R5F:1-6	R5F:1-6	R5F:1-4	R5F:1-4	R5F:1-4
		R1:G1-5	R5G:1-6	R5G:1-6	R5G:1-4	R5G:1-4	R5G:1-4
			R5H:1-6	R5H:1-6	R5H:1-4	R5H:1-4	R5H:1-4
R10G:1-5	R9:G1-5	R1:H1-5	R5I:1-6	R5I:1-6	R5I:1-4	R5I:1-4	R5I:1-4
R10H:1-5	R9:H1-5	R1:I1-5	R5J:1-6	R5J:1-6	R5J:1-4	R5J:1-4	R5J:1-4
			R5K:1-6	R5K:1-6	R5K:1-4	R5K:1-4	R5K:1-4
			R5L:1-6	R5L:1-6	R5L:1-4	R5L:1-4	R5L:1-4
			R5M:1-6	R5M:1-6	R5M:1-4	R5M:1-4	R5M:1-4
R10I:1-5	R9:I1-5	R1:J1-5	R5N:1-6	R5N:1-6	R5N:1-4	R5N:1-4	R5N:1-4
R10J:1-5	R9:J1-5	R1:K1-5	R5O:1-6	R5O:1-6	R5O:1-4	R5O:1-4	R5O:1-4
		R21					
R11:1-5	R12:1-5	R6:1-5	R6:1-6	R6:1-6	R6:1-4	R6:1-4	R6:1-4
R13A:1-5	R14:A1-5	R8:A1-5	R7A:1-6	R7A:1-6	R7A:1-4	R7A:1-4	R7A:1-4
R13B:1-5	R14:B1-5	R8:B1-5	R7B:1-6	R7B:1-6	R7B:1-4	R7B:1-4	R7B:1-4
		R8:C1-5	R7C:1-6	R7C:1-6	R7C:1-4	R7C:1-4	R7C:1-4
R13C:1-5	R14:C1-5	R8:D1-5	R7D:1-6	R7D:1-6	R7D:1-4	R7D:1-4	R7D:1-4
R13D:1-5	R14:D1-5	R8:E1-5	R7E:1-6	R7E:1-6	R7E:1-4	R7E:1-4	R7E:1-4
R13E:1-5	R14:E1-5	R8:F1-5	R7F:1-6	R7F:1-6	R7F:1-4	R7F:1-4	R7F:1-4
R13F:1-5	R14:F1-5		R7G:1-6	R7G:1-6	R7G:1-4	R7G:1-4	R7G:1-4
		R8:G1-5	R7H:1-6	R7H:1-6	R7H:1-4	R7H:1-4	R7H:1-4
		R8:H1-5					
		R8:I1-5	R7I:1-6	R7I:1-6	R7I:1-4	R7I:1-4	R7I:1-4
R13G:1-5	R14:G1-5	R8:J1-5	R7J:1-6	R7J:1-6	R7J:1-4	R7J:1-4	R7J:1-4
R13H:1-5	R14:H1-5	R8:K1-5	R7K:1-6	R7K:1-6	R7K:1-4	R7K:1-4	R7K:1-4
			R7L:1-6	R7L:1-6	R7L:1-4	R7L:1-4	R7L:1-4
			R8:1-6	R8:1-6	R8:1-4	R8:1-4	R8:1-4
			R9:1-6	R9:1-6	R9:1-4	R9:1-4	R9:1-4
		R22:A	R10M:1-6	R10M:1-6	R10M:1-4	R10M:1-4	R10M:1-4
		R22:B	R10Q:1-6	R10Q:1-6	R10Q:1-4	R10Q:1-4	R10Q:1-4
		R22:C	R10L:1-6	R10L:1-6	R10L:1-4	R10L:1-4	R10L:1-4
		R22:D	R10S:1-6	R10S:1-6	R10S:1-4	R10S:1-4	R10S:1-4
R9:1-5	R11:1-5	R7:1-5	R11:1-6	R11:1-6	R11:1-4	R11:1-4	R11:1-4
R5:1-5	R5:1-5	R11:1-5	R12:1-6	R12:1-6	R12:1-4	R12:1-4	R12:1-4
R6:1-5	R6:1-5	R12:1-5	R13:1-6	R13:1-6	R13:1-4	R13:1-4	R13:1-4
R14:1-5	R15:1-5	{ R9:1-5 R23 }	R14:1-6	R14:1-6	R14:1-4	R14:1-4	R14:1-4
		R13:1-5	R16:1-6	R16:1-6	R16:1-4	R16:1-4	R16:1-4
R4:1-5	R4:1-5	{ R14:1-5 R26 }	R17:1-6	R17:1-6	R17:1-4	R17:1-4	R17:1-4
R17:1-5	R18:1-5						
R18A:1-5	R19:A1-5	R15:A1-5	R18A:1-6	R18A:1-6	R18A:1-4	R18A:1-4	R18A:1-4
R18B:1-5	R19:B1-5	R15:B1-5	R18B:1-6	R18B:1-6	R18B:1-4	R18B:1-4	R18B:1-4
R18C:1-5	R19:C1-5	R15:C1-5	R18C:1-6	R18C:1-6	R18C:1-4	R18C:1-4	R18C:1-4
R2:M1-5	R2:M1-5	{ R17:M1-5 R28:M }	R20MO:1-6	R20MO:1-6	R20M:1-4	R20M:1-4	R20M:1-4
R2:D1-5	R2:D1-5	{ R17:D1-5 R28:D }	R20DY:1-6	R20DY:1-6	R20D:1-4	R20D:1-4	R20D:1-4
R2:Y1-5	R2:Y1-5	{ R17:Y1-5 R28:Y }					
R3:HR1-5	R3:H1-5	{ R18:H1-5 R29:H }	R21HR:1-6	R21HR:1-6	R21HR:1-4	R21HR:1-4	R21HR:1-4
R3:MN1-5	R3:M1-5	{ R18:M1-5 R29:M }	R21MN:1-6	R21MN:1-6	R21MN:1-4	R21MN:1-4	R21MN:1-4
R3:AP1-5	R3:A1-5	{ R18:A1-5 R29:A }	R21AP:1-6	R21AP:1-6	R21AP:1-4	R21AP:1-4	R21AP:1-4
R1:1-5	R1:1-5	{ R19:1-5 R27 }	R22A:1-6	R22A:1-6	R22:1-4	R22:1-4	R22:1-4
			R22B:1-6	R22B:1-6			
			RN1	RN1			
			RN2A:1-6	RN2A:1-6			
			RN2B:1-6	RN2B:1-6			

Data Retrieval Form

<u>LL11</u>	<u>LL21</u>	<u>LL12</u>	<u>LL22</u>	<u>LL13</u>	<u>LL23</u>	<u>LL14</u>	<u>LL24</u>
					DRIID	DRIID	DRIID
					DRDID:1-2	DRDID	DRDID
					DRRF	DRRF	DRRF
							DRRC
					DRA:1-7	DRA:1-7	DRA:1-7
					DRR:1-7	DRR:1-7	DRR:1-7
					DRTY:1-7	DRTY:1-7	DRTY:1-7
					DRMO:1-7	DRMO:1-7	DRMO:1-7
					DRDA:1-7	DRDA:1-7	DRDA:1-7
					DR1:HR	DR1:HR	DR1:HR
					DR1:MN	DR1:MN	DR1:MN
					DR1:AP	DR1:AP	DR1:AP
					DR2	DR2	DR2
					DR3	DR3	DR3
					DR4:1-5	DR4:1-5	DR4:1-4
					DR5	DR5	DR5
							DR5A
					DR6:1-9	DR6:1-9	DR6:1-9
					DR7	DR7	DR7
					DR8:HR	DR8:HR	DR8:HR
					DR8:MN	DR8:MN	DR8:MN
					DR8:AP	DR8:AP	DR8:AP

HOUSEHOLD SURVEY INDEX

Module A. On TH11, variable names ending with "T" pertain to tenants and homeowners; a terminal "M" signifies a mobile home resident.

Modules B and C. Both modules have separate sections for tenants (T), homeowners (H), mobile home residents (M), and lodgers (L). The second letter of the variable name indicates the type of respondent addressed. For example, "CM4" denotes the fourth variable in the mobile home resident version of module C.

TH11 departs from the foregoing pattern in the following ways:

- Respondent type is indicated at the end of the variable, as in "C4M."^[5] Variables representing parts of a question thus have a terminal letter, as in "B130:A-ET," signifying the five variables B130:AT through B130:ET.
- Tenants and homeowners were addressed in the same section of the instrument. The variable names pertaining to that section bear a terminal "T" and are listed twice because they correspond to both T and H questions in the other files. To avoid clutter, these mass repetitions are not footnoted as are the more isolated cases.

Module D. Variables pertaining to prior-wave respondents have no equivalents on the wave 1 files, so the TH11 and TH12 variables are matched with postbaseline variables pertaining to first-time respondents. On TH12, the prefix "DL" indicates the long version that records the five-year mobility history of first-time respondents; "DS," the short version for the past-year mobility history of prior-wave respondents.

[5] In the TH11 codebook, the module B and C questions lack a terminal letter indicating respondent type.

Modules E and F. On TH12, the prefixes "EL" and "FL" indicate the long versions that record the five-year employment history of first-time respondents; "ES" and "FS" signify the short versions for the past-year employment history of prior-wave respondents. Because questions in the long and short versions are similar, they are bracketed in the index.

Modules A through H

TH11	TH21	TH12	TH22	TH13	TH23	TH14	TH24
A2T } A2M }	A2	A1	A1	A1			
		A4* A5	A2	A2	A1*	A1*	A1*
			A2:A	A2:A	A1:A*	A1:A*	A1:A*
			A2:B	A2:B	A1:B	A1:B	A1:B
			A2:C	A2:C	A1:C*	A1:C*	A1:C*
		A4*	A3	A3	A1:D*	A1:D*	A1:D*
			A3:A	A3:A	A2*	A2*	A2*
					A2:A*	A2:A*	A2:A*
					A2:B	A2:B	A2:B
					A2:C	A2:C	A2:C
			A3:B1	A3:B1	A2:C1*	A2:C1*	A2:C1*
			A3:C	A3:C	A2:D*	A2:D*	A2:D*
			A3:E	A3:E	A4*	A4*	A4*
			A4	A4	A3	A3	A3
		A2*	A6	A6	A6*	A6*	A6*
		A4*	A7	A7	A1*	A1*	A1*
			A7:A	A7:A	A1:A*	A1:A*	A1:A*
			A7:B	A7:B	A1:C*	A1:C*	A1:C*
			A7:C	A7:C	A1:D*	A1:D*	A1:D*
		A4*	A8	A8	A2*	A2*	A2*
			A8:A	A8:A	A2:A*	A2:A*	A2:A*
			A8:B1	A8:B1	A2:C1*	A2:C1*	A2:C1*
			A8:C	A8:C	A2:D*	A2:D*	A2:D*
			A8:E	A8:E	A4*	A4*	A4*
		A2*	A9	A9	A6*	A6*	A6*
		A4*	A10	A10	A1*	A1*	A1*
			A10:A	A10:A	A1:A*	A1:A*	A1:A*
			A10:B	A10:B	A1:C*	A1:C*	A1:C*
			A10:C	A10:C	A1:D*	A1:D*	A1:D*
		A4*	A11	A11	A2*	A2*	A2*
			A11:A	A11:A	A2:A*	A2:A*	A2:A*
			A11:B1	A11:B1	A2:C1*	A2:C1*	A2:C1*
			A11:C	A11:C	A2:D*	A2:D*	A2:D*
			A12:A	A12:A			
			A12:B	A12:B			
		A6	A13:A	A13:A	A8	A8	A8
			A13:B	A13:B	A9	A9	A9
			A14	A14	A10	A10	A10
	A2C	A7	A15:HR	A15:HR	A11:HR	A11:HR	A11:HR
AHRBG	AHRBG	AHRBG	A15:MN	A15:MN	A11:MN	A11:MN	A11:MN
AMNBG	AMNBG	AMNBG	A15:AP	A15:AP	A11:AP	A11:AP	A11:AP
AAPBG	AAPBG	AAAPM	A16	A16			
	A3	A8	A16:A	A16:A			
			A16:B	A16:B	A12:A	A12:A	A12:A
			A16:C	A16:C	A12:B	A12:B	A12:B
A3T } A7T }	A3A	A9	A17	A17	A13	A13	A13
			A17:A	A17:A	A13:A	A13:A	A13:A
			A17:B	A17:B	A13:B	A13:B	A13:B
	A4	A10	A18	A18	A14	A14	A14
A2L	A7	A13	A20	A20	A16	A16	A16
	A7A	A14					
	A7B	A15					
A8T } A3M }	A8	A16	A21	A21	A17	A17	A17
			A22	A22	A18	A18	A18
	A9	A17	A22:AB	A22:AB	A18:A	A18:A	A18:A
A9T } A4M }	A9A	A18	A23	A23	A19	A19	A19
			A25	A25	A21	A21	A21
	A11	A20	A26	A26	A21:A	A21:A	A21:A
	A11A	A21	A26:A	A26:A	A12:C	A12:C	A12:B

*This variable is listed more than once in this column because its corresponding variables are not numerically adjacent.

<u>TH11</u>	<u>TH21</u>	<u>TH12</u>	<u>TH22</u>	<u>TH13</u>	<u>TH23</u>	<u>TH14</u>	<u>TH24</u>
B1M	A18	A32	A27	A27	A22	A22	A22
B1T	A11B	A22	A28	A28	A23	A23	A23
			A28:A	A28:A			
			A28:B	A28:B	A23:A	A23:A	A23:A
			A28:C	A28:C	A24	A24	A24
			A28:D	A28:D	A29	A29	A29
B1AT	A12	A23					
B1BT	A13	A24					
B1CT	A14	A25					
	A15	A26					
B1DT	A16	A27					
B1ET	A17	A28					
			A29	A29	A25*	A25*	A25*
			A30	A30	A26*	A26*	A26*
			A32	A32	A28*	A28*	A28*
			A33	A33			
			A34:M	A34:M			
			A34:Y	A34:Y			
			A35	A35			
			A36:M	A36:M	A30:M*	A30:M*	A30:M*
			A36:Y	A36:Y	A30:Y*	A30:Y*	A30:Y*
			A37	A37	A37*	A37*	A37*
			A38	A38			
			A40	A40			
			A41	A41	A25*	A25*	A25*
			A42	A42	A26*	A26*	A26*
			A44	A44	A28*	A28*	A28*
			A45	A45			
			A46:M	A46:M			
			A46:Y	A46:Y			
			A47	A47			
			A48:M	A48:M	A30:M*	A30:M*	A30:M*
			A48:Y	A48:Y	A30:Y*	A30:Y*	A30:Y*
			A49	A49	A37*	A37*	A37*
			A50	A50			
			A52	A52			
			A53	A53	A31	A31	A31
			A54	A54	A32	A32	A32
			A55	A55	A33	A33	A33
			A57	A57	A35	A35	A35
			A58:M	A58:M			
			A58:Y	A58:Y			
			A59:M	A59:M	A36:M	A36:M	A36:M
			A59:Y	A59:Y	A36:Y	A36:Y	A36:Y
			A60	A60	A37*	A37*	A37*
			A61	A61			
			A63	A63			
			A64:A	A64:A			
			A64:B	A64:B	A38	A38	A38
			A65	A65	A39	A39	A39
			A65:A	A65:A	A39:A	A39:A	A39:A
		A29					
		A30					
		A31					
B1AM	A19	A33					
B1BM	A20	A34					
B1CM	A21	A35					
B1DM	A22	A36					
B1EM	A23	A37					
B1FM	A24	A38					
			A66	A66	A40	A40	A40
			A67	A67	A41	A41	A41
			A68	A68	A41:A	A41:A	A41:A
B2M	A25	A39	A69	A69	A42	A42	A42
B2AM	A26	A40	A70	A70	A43	A43	A43
B2BM	A27	A41	A71	A71	A44	A44	A44
B2CM	A28	A42	A72	A72	A45	A45	A45
	A29	A43	A73	A73	A46	A46	A46

*This variable is listed more than once in this column because its corresponding variables are not numerically adjacent.

<u>TH11</u>	<u>TH21</u>	<u>TH12</u>	<u>TH22</u>	<u>TH13</u>	<u>TH23</u>	<u>TH14</u>	<u>TH24</u>
			A74:HR A74:MN A74:AP A75:C3R A75:MS BT1:HR BT1:MN BT1:AP BT2 BT3	A74:HR A74:MN A74:AP A75:C3R A75:MS BT1:HR BT1:MN BT1:AP BT2 BT3	A47:HR A47:MN A47:AP A48	A47:HR A47:MN A47:AP A48	A47:HR A47:MN A47:AP A48
ANST	ASTA	ASTAT					
B2T	BT1	BT1	BT4:A BT4:B BT4:C BT4:D BT4:E BT4:F BT4:G BT4:H BT4:I	BT4:A BT4:B BT4:C BT4:D BT4:E BT4:F BT4:G BT4:H BT4:I	BT4:A BT4:B BT4:C BT4:D BT4:E BT4:F BT4:G BT4:H BT4:I	BT4:A BT4:B BT4:C BT4:D BT4:E BT4:F BT4:G BT4:H BT4:I	BT4:A BT4:B BT4:C BT4:D BT4:E BT4:F BT4:G BT4:H BT4:I
B3:AT B3:BT B3:CT B3:DT B3:ET B3:FT B3:GT B3:HT B3:IT	BT2:A BT2:B BT2:C BT2:D BT2:E BT2:F BT2:G BT2:H BT2:J BT2:K	BT2:A BT2:B BT2:C BT2:D BT2:E BT2:F BT2:G BT2:H BT2:I	BT4:J BT4:K1-2	BT4:J BT4:K1-2	BT4:J BT4:K1-2	BT4:J BT4:K1-2	BT4:J BT4:K1-2
B3:JT B3:KT	BT2:L BT2:M	BT2:K1-2	BT5 BT6 BT6A-E BT7 BT7A:1-2 BT8 BT8A:1-3 BT9	BT5 BT6 BT6A-E BT7 BT7A:1-2 BT8 BT8A:1-3 BT9	BT5 BT6 BT6A-E BT7 BT7A:1-2 BT8 BT8A:1-2 BT9	BT5 BT6 BT6A-E BT7 BT7A:1-2 BT8 BT8A:1-2 BT9	BT5 BT6 BT6A-E BT7 BT7A:1-2 BT8 BT8A:1-2 BT9
B4T B4AT	BT3 BT4 BT5	BT3 BT4 BT5 BT5A:1-2 BT6 BT6A:1-3 BT7 BT7A	BT10 BT11 BT12 BT12B BT13 BT13B	BT10 BT11 BT12 BT12B BT13 BT13B	BT10 BT11 BT12 BT11B BT12 BT12B	BT10 BT11 BT12 BT11B BT12 BT12B	BT10 BT11 BT11B BT12 BT12B
B5T B6T	BT5A BT6	BT9 BT12 BT10					
B7T	BT7	BT11	BT14	BT14	BT13	BT13	BT13
B8:AT B8:BT B8:CT B8:DT B8:ET B8:FT	BT8:A BT8:B BT8:C BT8:D BT8:E BT8:F BT8:G BT8:H BT8:I BT8:J BT8:K BT9	BT13 BT14:A BT14:B BT14:C BT14:D BT14:E BT14:F BT14:G BT14:H BT14:I BT14:J BT14:J1 BT15	BT15:A BT15:B BT15:C BT15:D BT15:E BT15:F BT15:G BT15:H BT15:I BT15:J	BT15:A BT15:B BT15:C BT15:D BT15:E BT15:F BT15:G BT15:H BT15:I BT15:J	BT15:A BT15:B BT15:C BT15:D BT15:E BT15:F BT15:G BT15:H BT15:I BT15:J	BT15:A BT15:B BT15:C BT15:D BT15:E BT15:F BT15:G BT15:H BT15:I BT15:J	BT15:A BT15:B BT15:C BT15:D BT15:E BT15:F BT15:G BT15:H BT15:I BT15:J
B9:AT B9:BT B9:CT B9:DT B9:ET	BT9Y:A BT9Y:B BT9Y:C BT9Y:D BT9Y:E BT9Y:F BT9Y:G BT9Y:H BT9Y:I BT9Y:J	BT17:A BT17:B BT17:C BT17:D BT17:E BT17:F BT17:G BT17:H BT17:I BT17:J	BT16 BT17:A BT17:B BT17:C BT17:D BT17:E BT17:F BT17:G BT17:H BT17:I BT17:J	BT16 BT17:A BT17:B BT17:C BT17:D BT17:E BT17:F BT17:G BT17:H BT17:I BT17:J	BT16 BT17:A BT17:B BT17:C BT17:D BT17:E BT17:F BT17:G BT17:H BT17:I BT17:J	BT16 BT17:A BT17:B BT17:C BT17:D BT17:E BT17:F BT17:G BT17:H BT17:I BT17:J	BT16 BT17:A BT17:B BT17:C BT17:D BT17:E BT17:F BT17:G BT17:H BT17:I BT17:J
B9:FT B9:GT B10T B11T B12T B13T B14T B15T B16T	BT10 BT11 BT12 BT13 BT14 BT15 } BT16 }	BT18 BT19 BT20	BT19 BT20 BT21	BT19 BT20 BT21	BT14 BT15	BT14 BT15	BT14 BT15

<u>TH11</u>	<u>TH21</u>	<u>TH12</u>	<u>TH22</u>	<u>TH13</u>	<u>TH23</u>	<u>TH14</u>	<u>TH24</u>
B17:AT	BT17						
B17:BT	BT17:A						
B17:CT	BT17:B						
B17:DT	BT17:C						
B17:ET	BT17:D						
B17:FT	BT17:E						
B17:GT	BT17:F						
	BT17:G						
	BT17:H						
	BT17:I						
	BT17:J						
	BT17:K						
B17:HT	BT20B:1						
B18:1T	BT18:1	BT21:A	BT22:A	BT22:A	BT16:A	BT16:A	BT16:A
B18:2T	BT18:3	BT21:B	BT22:B	BT22:B	BT16:B	BT16:B	BT16:B
B18:3T							BT16:C
							BT16:D
B18:4T	BT18:4	BT21:C	BT22:C	BT22:C	BT16:C	BT16:C	BT16:E
B18:5T	BT18:5	BT21:D	BT22:D	BT22:D	BT16:D	BT16:D	BT16:F
B18:6T	BT18:6	BT21:E	BT22:E	BT22:E	BT16:E	BT16:E	BT16:G
B18:7T	BT21:1	BT21:F	BT22:F	BT22:F	BT16:F	BT16:F	
B18A:7T	BT21A:1						
B18:8T	BT21:2	BT21:G	BT22:G	BT22:G	BT16:G	BT16:G	BT16:H
B18A:8T	BT21A:2						
B19:2T	BT19:1	BT22:A	BT23:A	BT23:A	BT17:A	BT17:A	BT17:A
	BT19:2						
B19:3T	BT19:3	BT22:B	BT23:B	BT23:B	BT17:B	BT17:B	BT17:B
B19:4T	BT19:4	BT22:C	BT23:C	BT23:C	BT17:C	BT17:C	BT17:D
B19:5T	BT19:5	BT22:D	BT23:D	BT23:D	BT17:D	BT17:D	BT17:E
B19:6T	BT19:6	BT22:E	BT23:E	BT23:E	BT17:E	BT17:E	BT17:F
B19:7T	BT21B:1	BT22:F	BT23:F	BT23:F	BT17:F	BT17:F	BT17:G
B19:8T	BT21B:2	BT22:G	BT23:G	BT23:G	BT17:G	BT17:G	BT17:H
		BT23	BT24	BT24	BT18	BT18	BT18
B20:1T	BT20:2						
B20A:1T	BT20A:1						
B20:2T	BT20:1	BT24:A	BT25:A	BT25:A	BT19:A	BT19:A	BT19:A
B20:3T	BT20:3	BT24:B	BT25:B	BT25:B	BT19:B	BT19:B	BT19:B
							BT19:C
B20:4T	BT20:4	BT24:C	BT25:C	BT25:C	BT19:C	BT19:C	BT19:D
B20:5T	BT20:5	BT24:D	BT25:D	BT25:D	BT19:D	BT19:D	BT19:E
B20:6T	BT20:6	BT24:E	BT25:E	BT25:E	BT19:E	BT19:E	BT19:F
B20:7T	BT21C:1	BT24:F	BT25:F	BT25:F	BT19:F	BT19:F	BT19:G
B20:8T	BT21C:2	BT24:G	BT25:G	BT25:G	BT19:G	BT19:G	BT19:H
					BT20	BT20	BT20
					BT21	BT21	BT21
B21T	BT22		BT26	BT26	BT22	BT22	BT22
B22T	BT22A	BT25	BT27	BT27	BT23	BT23	BT23
B23T	BT23						
B24T	BT24	BT26	BT28	BT28	BT24	BT24	BT24
B25T	BT25	BT27	BT29	BT29	BT25	BT25	BT25
B26T	BT26						
B31T	BT27	BT28	BT30	BT30	BT26	BT26	BT26
B32T	BT28	BT29	BT31	BT31	BT27	BT27	BT27
B34T	BT29	BT30	BT32	BT32	BT28	BT28	BT28
B27T	BT30	BT31					
B28T	BT31						
B29T	BT32	BT32	BT33	BT33	BT29	BT29	BT29
B30T	BT33	BT32A	BT33A	BT33A	BT29A	BT29A	BT29A
B33T	BT34	BT33					
B35T	BT35	BT34	BT34	BT34			
B36T	BT36	BT35	BT35	BT35	BT30	BT30	BT30
B37T	BT37						
B38T	BT38	BT36	BT36	BT36	BT31	BT31	BT31
B39T	BT39						
B40T	BT40		BT37	BT37			
B41T	BT41	BT37	BT38	BT38	BT32	BT32	BT32
B42T	{ BT42 }	BT38	BT39	BT39	BT33	BT33	BT33
	{ BT42:A }						
B62T	BT61	BT58	BT40	BT40	BT34	BT34	BT34
B43T	BT43	BT39	BT41	BT41	BT35	BT35	BT35

<u>TH11</u>	<u>TH21</u>	<u>TH12</u>	<u>TH22</u>	<u>TH13</u>	<u>TH23</u>	<u>TH14</u>	<u>TH24</u>
B44T	BT44	BT40	BT42	BT42	BT36	BT36	BT36
B45T	BT45 } BT46 }	BT41	BT43	BT43	BT37	BT37	BT37
B46T	BT47	BT42	BT44	BT44	BT38	BT38	BT38
B47T		BT43	BT44A	BT44A	BT38A	BT38A	BT38A
		BT44					
		BT45					
B48T	BT48	BT46	BT45	BT45	BT39	BT39	BT39
		BT47	BT45A	BT45A	BT39A	BT39A	BT39A
B50T	BT49		BT46	BT46			
B51T	{ BT50A } { BT50B }		BT47	BT47			
B52T	BT51		BT48	BT48			
B70T	BT69	BT71	BT49	BT49	BT40	BT40	BT40
B71:1-2T	BT70:1-2	BT72:1-2	BT50:1-2	BT50:1-2	BT41:1-2	BT41:1-2	BT41:1-2
	BT74	BT73	BT51	BT51	BT41A	BT41A	BT41A
B72T	BT71	BT74	BT52	BT52			
		BT75	BT52A	BT52A			
		BT76					
		BT77					
B73T	BT72	BT78					
		BT79					
B74T	BT73	BT80					
		BT81					
B77T	BT75	BT82	BT53	BT53			
	BT78						
B78:AT	BT78:A		BT54	BT54			
B78:BT	BT78:B						
B75:AT	BT76:A	BT83	BT55	BT55			
B75:BT	BT76:B						
B76:AT	BT77:A } BT79:A }	BT84	BT56	BT56			
B79:AT	BT77:A						
B76:BT	BT77:B						
B79:BT	BT79:B						
B80T	BT80	BT94					
B81T	BT81	BT85	BT57	BT57			
			BT57A	BT57A			
B82T	BT82						
B83T	BT83						
B84T	BT84	BT86	BT58	BT58	BT42	BT42	BT42
		BT87	BT58A	BT58A	BT42A	BT42A	BT42A
		BT88:1-3	{ BT59:A1-4 } { BT59:B1-4 } { BT59:C1-4 }	BT59:A1-4 BT59:B1-4 BT59:C1-4	BT43:1-4 BT44:1-4	BT43:1-4 BT44:1-4	BT43:1-4 BT44:1-4
					BT45	BT45	BT45
					BT46:1-4	BT46:1-4	BT46:1-4
					BT47	BT47	BT47
		BT89	BT59:D	BT59:D	BT48	BT48	BT48
B85:A-BT	BT85:A-B						
B86T	BT86						
B87T	BT87						
B88T	BT88						
B89T	BT89	BT90	BT60	BT60	BT49	BT49	BT49
			BT60A	BT60A			
					BT50	BT50	BT50
					BT50A	BT50A	BT50A
B90T	BT90	BT91					
	BT90A	BT92	BT61	BT61	BT51	BT51	BT51
B91T	BT91						
B92T	BT92						
B93T	BT93	BT93	BT62	BT62	BT52	BT52	BT52
			BT62A	BT62A	BT52A	BT52A	BT52A
B94T	BT94	BT95	BT63	BT63	BT53	BT53	BT53
			BT63A	BT63A	BT53A	BT53A	BT53A
B95T	BT95						
B96T	BT96	BT96					
B97T	BT97	BT97	BT64	BT64	BT54	BT54	BT54
			BT64A	BT64A	BT54A	BT54A	BT54A
B98T	BT98						

<u>TH11</u>	<u>TH21</u>	<u>TH12</u>	<u>TH22</u>	<u>TH13</u>	<u>TH23</u>	<u>TH14</u>	<u>TH24</u>
B99T	BT99	BT98	BT65	BT65			
B100T	BT100	BT99					
B101T	BT101	BT100	BT66	BT66	BT55	BT55	BT55
B102T	BT102		BT66A	BT66A	BT55A	BT55A	BT55A
			BT66B	BT66B	BT55B	BT55B	BT55B
B103T	BT103	BT101	BT67	BT67			
B104T	BT104		BT67A	BT67A			
			BT67B	BT67B			
B105T	BT105						
B106T	BT106		BT68	BT68			
B107T	BT107						
B108T	BT108						
B109T	BT109	BT102					
B110T	BT110						
B111T	BT111	BT103					
B112T	BT112						
B113T	BT113	BT104					
B114:AT	BT114:A	BT105:A	BT69A	BT69A			
B114:BT	BT114:B	BT105:B	BT69B	BT69B	BT56	BT56	BT56
					BT56A	BT56A	BT56A
					BT56B	BT56B	BT56B
B114:C1T	BT114:C1	BT105:C	BT69C	BT69C			
B114:C2-3T	BT114:C2-3						
B114:D1T	BT114:D1	BT105:D	BT69D	BT69D			
B114:D2-3T	BT114:D2-3						
B114:ET	BT114:E	BT105:G	BT69E	BT69E			
B114:FT	BT114:F		BT69F	BT69F	BT57	BT57	BT57
					BT57A	BT57A	BT57A
					BT57B	BT57B	BT57B
B114:GT	BT114:G	BT105:E	BT69G	BT69G	BT58	BT58	BT58
					BT58A	BT58A	BT58A
					BT58B	BT58B	BT58B
B114:HT	BT114:H	BT105:F	BT69H	BT69H	BT59	BT59	BT59
					BT59A	BT59A	BT59A
					BT59B	BT59B	BT59B
B114:IT	BT114:I		BT69I	BT69I	BT60	BT60	BT60
					BT60A	BT60A	BT60A
					BT60B	BT60B	BT60B
B114:JT	BT114:J	BT105:H	BT69J	BT69J	BT61	BT61	BT61
					BT61A	BT61A	BT61A
					BT61B	BT61B	BT61B
B114:KT	BT114:K	BT105:I					
B114:LT	BT114:L	BT105:J					
B114:MT	BT114:M	BT105:K	BT69K	BT69K	BT62	BT62	BT62
					BT62A	BT62A	BT62A
					BT62B	BT62B	BT62B
			BT70	BT70	BT63	BT63	BT63
B118T	BT118						
B119T	BT119						
B120T	BT120						
B121T	BT121						
B122T	BT122						
		BT106					
B123T	BT123	BT107	BT71	BT71	BT64	BT64	BT64
B124T	BT124						
B125T	BT125						
B126T	BT126	BT112	BT72	BT72			
B127T	BT127		BT73	BT73	BT85*	BT85*	BT85*
		BT113					
			BT75	BT75	BT87*	BT87*	BT87*
			BT75A	BT75A	BT87A*	BT87A*	BT87A*
B128:A-ET	BT128:A-E1	BT114:A-F	BT74:1-6	BT74:1-6	BT86:1-4*	BT86:1-4*	BT86:1-4*
			BT76:1-6	BT76:1-6	BT88:1-4*	BT88:1-4*	BT88:1-4*
			BT77:1-6	BT77:1-6			
	BT128AA-E2						
B129:A-ET	BT129:A-E3						

*This variable is listed more than once in this column because its corresponding variables are not numerically adjacent.

<u>TH11</u>	<u>TH21</u>	<u>TH12</u>	<u>TH22</u>	<u>TH13</u>	<u>TH23</u>	<u>TH14</u>	<u>TH24</u>
B130:A-ET	BT130:A-E4						
B131T	BT131	BT115	BT78	BT78			
B132T	BT132		BT79	BT79	BT85*	BT85*	BT85*
		BT116					
			BT81	BT81	BT87*	BT87*	BT87*
			BT81A	BT81A	BT87A*	BT87A*	BT87A*
B133:A-ET	BT133:A-E1	BT117:A-F	BT80:1-6	BT80:1-6	BT86:1-4*	BT86:1-4*	BT86:1-4*
			BT82:1-6	BT82:1-6	BT88:1-4*	BT88:1-4*	BT88:1-4*
			BT83:1-6	BT83:1-6			
	BT133A-E2						
B134:A-ET	BT134:A-E3						
B135:A-ET	BT135:A-E4						
B49T		BT48	BT84	BT84	BT65	BT65	BT65
		BT49	BT85	BT85	BT66	BT66	BT66
		BT49:A1-3	BT85:A1-3	BT85:A1-3	BT66:A1-4	BT66:A1-4	BT66:A1-4
		BT50	BT86	BT86			
		BT51	BT87	BT87	BT68	BT68	BT68
B53T		BT52	BT88	BT88	BT69	BT69	BT69
B54T	BT52 }						
B55T	BT53 }						
B56:1T	BT54:1	BT53:1	BT89:1	BT89:1	BT70	BT70	BT70
B57:1T	BT54A:1						
B58A:1T	BT55A:1	BT53:A1	BT89:A1	BT89:A1	BT70A	BT70A	BT70A
B58B:1T	BT55B:1						
B56:2T	BT54:2	BT53:2	BT89:2	BT89:2			
B57:2T	BT54A:2						
B58A:2T	BT55A:2	BT53:A2	BT89:A2	BT89:A2			
B58B:2T	BT55B:2						
B56:3T	BT54:3	BT53:3	BT89:3	BT89:3	BT71	BT71	BT71
B57:3T	BT54A:3						
B58A:3T	BT55A:3	BT53:A3	BT89:A3	BT89:A3	BT71A	BT71A	BT71A
B58B:3T	BT55B:3						
B56:4T	BT56:1	BT54:4	BT89:4	BT89:4	BT72	BT72	BT72
B57:4T	BT56A:1						
B58A:4T	BT57A:1	BT54:A4	BT89:A4	BT89:A4	BT72A	BT72A	BT72A
B58B:4T	BT57B:1						
B56:5T	BT56:2	BT54:5	BT89:5	BT89:5			
B57:5T	BT56A:2						
B58A:5T	BT57A:2	BT54:A5	BT89:A5	BT89:A5			
B58B:5T	BT57B:2						
B59T	BT58	BT56					
B60T	BT59	BT55					
B61T	BT60	BT57	BT90	BT90	BT73	BT73	BT73
B64T	BT63						
B65T	BT64	BT59					
					BT74	BT74	BT74
B66:BT	BT65Y:A	BT60:A	BT91:A	BT91:A	BT75:A	BT75:A	BT75:A
B66:CT	BT65Y:B	BT60:B	BT91:B	BT91:B			
B66:DT	BT65Y:C	BT60:C	BT91:C	BT91:C			
B66:ET	BT65Y:D		BT91:D	BT91:D			
B66:FT	BT65Y:E }	BT60:D	BT91:E	BT91:E	BT75:B	BT75:B	BT75:B
B66:GT	BT65Y:F }		BT91:F	BT91:F	BT75:C	BT75:C	BT75:C
B66:HT	BT65Y:G	BT60:E	BT91:G	BT91:G	BT75:D	BT75:D	BT75:D
B66:IT	BT65Y:H	BT60:F	BT91:H	BT91:H	BT75:E	BT75:E	BT75:E
B66:JT	BT65Y:I		BT91:I	BT91:I			
B66:KT	BT65Y:J		BT91:J	BT91:J			
B66:AT	BT65Y:K		BT91:K	BT91:K			
B63:AT	BT62:A		BT93:A	BT93:A	BT77:A	BT77:A	BT77:A
B63:BT	BT62:B		BT93:B	BT93:B	BT77:B	BT77:B	BT77:B
B63:CT	BT62:C		BT93:C	BT93:C	BT77:C	BT77:C	BT77:C
B63:DT	BT62:D				BT77:F	BT77:F	BT77:F
			BT93:D	BT93:D	BT77:D	BT77:D	BT77:D
B63:ET	BT62:E						
B63:GT	BT62:G		BT93:E	BT93:E	BT77:E	BT77:E	BT77:E
B63:FT	BT62:F		BT93:F	BT93:F	BT77:G	BT77:G	BT77:G
B63:HT	BT62:H		BT93:G	BT93:G	BT77:H	BT77:H	BT77:H
		BT62					

*This variable is listed more than once in this column because its corresponding variables are not numerically adjacent.

<u>TH11</u>	<u>TH21</u>	<u>TH12</u>	<u>TH22</u>	<u>TH13</u>	<u>TH23</u>	<u>TH14</u>	<u>TH24</u>
		BT63					
		BT64	BT94	BT94	BT67	BT67	BT67
B67T	BT66	BT65	BT95	BT95	BT78	BT78	BT78
B68T	BT67	BT66	BT96	BT96	BT79	BT79	BT79
		BT68:A-C	BT97:A-C	BT97:A-C	BT80:A-C	BT80:A-C	BT80:A-C
		BT67:1-3	BT98:1-3	BT98:1-3			
B69T	BT68	BT69	BT99	BT99	BT81	BT81	BT81
		BT70					
B115T	BT115	BT110					
B116T	BT116	BT108	BT100	BT100	BT82	BT82	BT82
B117:A-RT	BT117:A-U1	BT109:A-D	BT101:A-D	BT101:A-D	BT83:1-5	BT83:1-5	BT83:1-5
B136T		BT111	BT102	BT102	BT84	BT84	BT84
			BT103	BT103			
B137T			BT104	BT104	BT89	BT89	BT89
			BT105	BT105	BT90	BT90	BT90
			BT105A	BT105A	BT90A	BT90A	BT90A
			BT106:HR	BT106:HR	BT91:HR	BT91:HR	BT91:HR
			BT106:MN	BT106:MN	BT91:MN	BT91:MN	BT91:MN
			BT106:AP	BT106:AP	BT91:AP	BT91:AP	BT91:AP
BNSTT		BTSTAT	BTSTAT	BTSTAT	BTSTAT	BTSTAT	BTSTAT
			BH1:HR	BH1:HR	BH1:HR	BH1:HR	BH1:HR
			BH1:MN	BH1:MN	BH1:MN	BH1:MN	BH1:MN
			BH1:AP	BH1:AP	BH1:AP	BH1:AP	BH1:AP
			BH2	BH2	BH2	BH2	BH2
B2T	BH1	BH1	BH3	BH3	BH3	BH3	BH3
B3:AT	BH2:A	BH2:A	BH4:A	BH4:A	BH4:A	BH4:A	BH4:A
B3:BT	BH2:B	BH2:B	BH4:B	BH4:B	BH4:B	BH4:B	BH4:B
B3:CT	BH2:C	BH2:C	BH4:C	BH4:C	BH4:C	BH4:C	BH4:C
B3:DT	BH2:D	BH2:D	BH4:D	BH4:D	BH4:D	BH4:D	BH4:D
B3:ET	BH2:E	BH2:E	BH4:E	BH4:E	BH4:E	BH4:E	BH4:E
	BH2:F	BH2:F	BH4:F	BH4:F	BH4:F	BH4:F	BH4:F
B3:FT	BH2:G	BH2:G	BH4:G	BH4:G	BH4:G	BH4:G	BH4:G
B3:GT	BH2:H	BH2:H	BH4:H	BH4:H	BH4:H	BH4:H	BH4:H
B3:HT	BH2:J	BH2:I	BH4:I	BH4:I	BH4:I	BH4:I	BH4:I
B3:IT	BH2:K						
		BH2:J	BH4:J	BH4:J	BH4:J	BH4:J	BH4:J
B3:JT	BH2:L	BH2:K1-2	BH4:K1-2	BH4:K1-2	BH4:K1-2	BH4:K1-2	BH4:K1-2
B3:KT	BH2:M						
		BH3	BH5	BH5	BH5	BH5	BH5
		BH4	BH6	BH6	BH6	BH6	BH6
		BH4:A-E	BH6A-E	BH6A-E	BH6:A-E	BH6:A-E	BH6:A-E
		BH5	BH7	BH7	BH7	BH7	BH7
		BH5:A1-3	BH7A:1-2	BH7A:1-2	BH7:A1-2	BH7:A1-2	BH7:A1-2
		BH6	BH8	BH8	BH8	BH8	BH8
		BH6:A1-3	BH8A:1-3	BH8A:1-3	BH8:A1-2	BH8:A1-2	BH8:A1-2
B4T	BH3	BH7	BH9	BH9	BH9	BH9	BH9
B4AT	BH4	BH7A	BH10	BH10			
	BH5	BH8	BH11	BH11	BH10	BH10	BH10
B5T	BH5A	BH9	BH12	BH12	BH11:A	BH11:A	BH11:A
		BH12	BH12B	BH12B	BH11:B	BH11:B	BH11:B
B6T	BH6	BH10	BH13	BH13	BH12:A	BH12:A	BH12:A
			BH13B	BH13B	BH12:B	BH12:B	BH12:B
		BH11					
B7T	BH7	BH13	BH14	BH14	BH13	BH13	BH13
B8:AT	BH8:A	BH14:A	BH15:A	BH15:A			
B8:BT	BH8:B	BH14:B	BH15:B	BH15:B			
B8:CT	BH8:C	BH14:C	BH15:C	BH15:C			
B8:DT	BH8:D	BH14:D	BH15:D	BH15:D			
B8:ET	BH8:E	BH14:E	BH15:E	BH15:E			
	BH8:F	BH14:F	BH15:F	BH15:F			
	BH8:G	BH14:G	BH15:G	BH15:G			
	BH8:H	BH14:H	BH15:H	BH15:H			
	BH8:I	BH14:I	BH15:I	BH15:I			
B8:FT	BH8:J	BH14:J	BH15:J	BH15:J			
	BH8:K	BH14:J1					
	BH9	BH15	BH16	BH16			
B9:AT	BH9Y:A	BH17:A	BH17:A	BH17:A			
B9:BT	BH9Y:B	BH17:B	BH17:B	BH17:B			
B9:CT	BH9Y:C	BH17:C	BH17:C	BH17:C			

<u>TH11</u>	<u>TH21</u>	<u>TH12</u>	<u>TH22</u>	<u>TH13</u>	<u>TH23</u>	<u>TH14</u>	<u>TH24</u>
B9:DT	BH9Y:D	BH17:D	BH17:D	BH17:D			
B9:ET	BH9Y:E	BH17:E	BH17:E	BH17:E			
	BH9Y:F	BH17:F	BH17:F	BH17:F			
	BH9Y:G	BH17:G	BH17:G	BH17:G			
	BH9Y:H	BH17:H	BH17:H	BH17:H			
	BH9Y:I	BH17:I	BH17:I	BH17:I			
B9:FT	BH9Y:J	BH17:J	BH17:J	BH17:J			
B9:GT							
B10T	BH10	BH18	BH19	BH19	BH14	BH14	BH14
B11T	BH11						
B12T	BH12						
B13T	BH13						
B14T	BH14	BH19	BH20	BH20			
B15T	BH15	BH20	BH21	BH21	BH15	BH15	BH15
B16T	BH16						
B17:AT	BH17						
B17:BT	BH17:A						
B17:CT	BH17:B						
B17:DT	BH17:C						
B17:ET	BH17:D						
B17:FT	BH17:E						
B17:GT	BH17:F						
	BH17:G						
	BH17:H						
	BH17:I						
	BH17:J						
B17:HT	BH17:K						
B18:1T	BH20B:1						
B18:2T	BH18:1	BH21:A	BH22:A	BH22:A	BH16:A	BH16:A	BH16:A
B18:3T	BH18:3	BH21:B	BH22:B	BH22:B	BH16:B	BH16:B	BH16:B
							BH16:C
B18:4T	BH18:4	BH21:C	BH22:C	BH22:C	BH16:C	BH16:C	BH16:D
B18:5T	BH18:5	BH21:D	BH22:D	BH22:D	BH16:D	BH16:D	BH16:E
B18:6T	BH18:6	BH21:E	BH22:E	BH22:E	BH16:E	BH16:E	BH16:F
B18:7T	BH21:7	BH21:F	BH22:F	BH22:F	BH16:F	BH16:F	BH16:G
B18:8T	BH21:8	BH21:G	BH22:G	BH22:G	BH16:G	BH16:G	BH16:H
		BH22	BH24	BH24	BH18	BH18	BH18
B20:1T	BH19:2						
B20A:1T	BH20A:1						
B20:2T	BH19:1	BH23:A	BH25:A	BH25:A	BH19:A	BH19:A	BH19:A
B20:3T	BH19:3	BH23:B	BH25:B	BH25:B	BH19:B	BH19:B	BH19:B
							BH19:C
B20:4T	BH19:4	BH23:C	BH25:C	BH25:C	BH19:C	BH19:C	BH19:D
B20:5T	BH19:5	BH23:D	BH25:D	BH25:D	BH19:D	BH19:D	BH19:E
B20:6T	BH19:6	BH23:E	BH25:E	BH25:E	BH19:E	BH19:E	BH19:F
B20:7T	BH21A:7	BH23:F	BH25:F	BH25:F	BH19:F	BH19:F	BH19:G
B20:8T	BH21A:8	BH23:G	BH25:G	BH25:G	BH19:G	BH19:G	BH19:H
					BH20	BH20	BH20
					BH21	BH21	BH21
B21T	BH22	BH24	BH26	BH26	BH22	BH22	BH22
B22T	BH23	BH25	BH27	BH27	BH23	BH23	BH23
B23T	BH24						
B24T	BH25	BH26	BH28	BH28	BH24	BH24	BH24
B25T	BH26	BH27	BH29	BH29	BH25	BH25	BH25
B26T	BH27						
B31T	BH28	BH28	BH30	BH30	BH26	BH26	BH26
B32T	BH29	BH29	BH31	BH31	BH27	BH27	BH27
B34T	BH30	BH30	BH32	BH32	BH28	BH28	BH28
B27T	BH31	BH31					
B28T	BH32						
B29T	BH33	BH32	BH33	BH33	BH29	BH29	BH29
B30T	BH34	BH32A	BH33A	BH33A	BH29:A	BH29:A	BH29:A
B33T	BH35	BH33					
B35T	BH36	BH34	BH34	BH34			
B36T	BH37	BH35	BH35	BH35	BH30	BH30	BH30
B37T	BH38						
B38T	BH39	BH36	BH36	BH36	BH31	BH31	BH31
B39T	BH40						
B40T	BH41		BH37	BH37			

<u>TH11</u>	<u>TH21</u>	<u>TH12</u>	<u>TH22</u>	<u>TH13</u>	<u>TH23</u>	<u>TH14</u>	<u>TH24</u>
B41T	BH42	BH37	BH38	BH38	BH32	BH32	BH32
B42T	BH43	BH38	BH39	BH39	BH33	BH33	BH33
B62T			BH40	BH40	BH34	BH34	BH34
B43T	BH44	BH39	BH41	BH41	BH35	BH35	BH35
B44T	BH45	BH40	BH42	BH42	BH36	BH36	BH36
B45T	BH46 }	BH41	BH43	BH43	BH37	BH37	BH37
B46T	BH47 }						
B47T	BH48	BH42	BH44	BH44	BH38	BH38	BH38
		BH43	BH44A	BH44A	BH38:A	BH38:A	BH38:A
		BH44					
		BH45					
B48T	BH49	BH46	BH45	BH45	BH39	BH39	BH39
		BH47	BH45A	BH45A	BH39:A	BH39:A	BH39:A
B50T			BH46	BH46			
B51T			BH47	BH47			
B52T			BH48	BH48			
B53T							
B70T	BH50	BH51	BH49	BH49	BH40	BH40	BH40
B71:1-2T	BH51:1-2	BH52:1-2	BH50:1-2	BH50:1-2	BH41:1-2	BH41:1-2	BH41:1-2
	BH54A	BH53	BH51	BH51	BH41:A	BH41:A	BH41:A
B72T	BH52	BH54	BH52	BH52			
		BH55	BH52A	BH52A			
		BH56					
		BH57					
B73T	BH53	BH58					
		BH59					
B74T	BH54	BH60					
		BH61					
B77T	BH55	BH62	BH53	BH53			
	BH58						
B78:AT	BH58:A		BH54	BH54			
B78:BT	BH58:B						
B75:AT	BH56:A	BH63	BH55	BH55			
B75:BT	BH56:B						
B76:AT	BH57:A }	BH64	BH56	BH56			
B79:AT	BH59:A }						
B76:BT	BH57:B						
B79:BT	BH59:B						
B80T	BH60	BH74					
B81T	BH61	BH65	BH57	BH57			
			BH57A	BH57A			
B82T	BH62						
B83T	BH63						
B84T	BH64	BH66	BH58	BH58	BH42	BH42	BH42
		BH67	BH58A	BH58A	BH42:A	BH42:A	BH42:A
		BH68:1-3	BH59:A1-4	BH59:A1-4	BH43:A-D	BH43:A-D	BH43:A-D
			BH59:B1-4	BH59:B1-4	BH44:A-D	BH44:A-D	BH44:A-D
			BH59:C1-4	BH59:C1-4			
					BH45	BH45	BH45
					BH46:A-D	BH46:A-D	BH46:A-D
					BH47	BH47	BH47
		BH69	BH59:D	BH59:D	BH48	BH48	BH48
B85:A-BT	BH65:A-B						
B86T	BH66						
B87T	BH67						
B88T	BH68						
B89T	BH69	BH70	BH60	BH60	BH49	BH49	BH49
			BH60A	BH60A			
					BH50	BH50	BH50
					BH50:A	BH50:A	BH50:A
B90T	BH70	BH71					
	BH70A	BH72	BH61	BH61	BH51	BH51	BH51
B91T	BH71						
B92T	BH72						
B93T	BH73	BH73	BH62	BH62	BH52	BH52	BH52
			BH62A	BH62A	BH52:A	BH52:A	BH52:A
B94T	BH74	BH75	BH63	BH63	BH53	BH53	BH53
			BH63A	BH63A	BH53:A	BH53:A	BH53:A

<u>TH11</u>	<u>TH21</u>	<u>TH12</u>	<u>TH22</u>	<u>TH13</u>	<u>TH23</u>	<u>TH14</u>	<u>TH24</u>
B95T	BH75						
B96T	BH76	BH76					
B97T	BH77	BH77	BH64	BH64	BH54	BH54	BH54
			BH64A	BH64A	BH54:A	BH54:A	BH54:A
B98T	BH78						
B99T	BH79	BH78	BH65	BH65			
B100T	BH80	BH79					
B101T	BH81	BH80	BH66	BH66	BH55	BH55	BH55
B102T	BH82		BH66A	BH66A	BH55:A	BH55:A	BH55:A
			BH66B	BH66B	BH55:B	BH55:B	BH55:B
B103T	BH83	BH81	BH67	BH67			
B104T	BH84		BH67A	BH67A			
			BH67B	BH67B			
B105T	BH85						
B106T	BH86		BH68	BH68			
B107T	BH87						
B108T	BH88						
B109T	BH89	BH82					
B110T	BH90						
B111T	BH91	BH83					
B112T	BH92						
B113T	BH93	BH84					
B114:AT	BH94:A	BH85:A	BH69A	BH69A			
B114:BT	BH94:B	BH85:B	BH69B	BH69B	BH56	BH56	BH56
					BH56:A	BH56:A	BH56:A
					BH56:B	BH56:B	BH56:B
B114:C1T	BH94:C1	BH85:C	BH69C	BH69C			
B114:C2-3T	BH94:C2-3						
B114:D1T	BH94:D1	BH85:D	BH69D	BH69D			
B114:D2-3T	BH94:D2-3						
B114:ET	BH94:E	BH85:E	BH69E	BH69E			
B114:FT	BH94:F		BH69F	BH69F	BH57	BH57	BH57
					BH57:A	BH57:A	BH57:A
					BH57:B	BH57:B	BH57:B
B114:GT	BH94:G	BH85:F	BH69G	BH69G	BH58	BH58	BH58
					BH58:A	BH58:A	BH58:A
					BH58:B	BH58:B	BH58:B
B114:HT	BH94:H	BH85:G	BH69H	BH69H	BH59	BH59	BH59
					BH59:A	BH59:A	BH59:A
					BH59:B	BH59:B	BH59:B
B114:IT	BH94:I		BH69I	BH69I	BH60	BH60	BH60
					BH60:A	BH60:A	BH60:A
					BH60:B	BH60:B	BH60:B
B114:JT	BH94:J	BH85:H	BH69J	BH69J	BH61	BH61	BH61
					BH61:A	BH61:A	BH61:A
					BH61:B	BH61:B	BH61:B
B114:KT	BH94:K	BH85:I					
B114:LT	BH94:L	BH85:J					
B114:MT	BH94:M	BH85:K	BH69K	BH69K	BH62	BH62	BH62
					BH62:A	BH62:A	BH62:A
					BH62:B	BH62:B	BH62:B
			BH70	BH70	BH63	BH63	BH63
B115T		BH90					
B118T	BH97						
B119T	BH98						
B120T	BH99						
B121T	BH100						
B122T	BH101						
		BH86					
B123T	BH102	BH87	BH71	BH71	BH64	BH64	BH64
B124T	BH103						
B125T	BH104						
B126T	BH105	BH92	BH72	BH72			
B127T	BH107		BH73	BH73	BH85*	BH85*	BH85*
		BH93					
			BH75	BH75	BH87*	BH87*	BH87*

*This variable is listed more than once in this column because its corresponding variables are not numerically adjacent.

TH11	TH21	TH12	TH22	TH13	TH23	TH14	TH24
B128:A-ET	BH108:A-E1	BH94:A-F	BH75A BH74:1-6 BH76:1-6 BH77:1-6	BH75A BH74:1-6 BH76:1-6 BH77:1-6	BH87:A* BH86:1-4* BH88:1-4*	BH87:A* BH86:1-4* BH88:1-4*	BH87:A* BH86:1-4* BH88:1-4*
B129:A-ET	BH108A-E2 BH109:A-E3						
B130:A-ET	BH110:A-E4						
B131T	BH111	BH95	BH78	BH78			
B132T	BH112		BH79	BH79	BH85*	BH85*	BH85*
		BH96					
B133:A-ET	BH113:A-E1	BH97:A-F	BH81 BH81A BH80:1-6 BH82:1-6 BH83:1-6	BH81 BH81A BH80:1-6 BH82:1-6 BH83:1-6	BH87* BH87A* BH86:1-4* BH88:1-4*	BH87* BH87A* BH86:1-4* BH88:1-4*	BH87* BH87A* BH86:1-4* BH88:1-4*
B134:A-ET	BH113A-E2 BH114:A-E3						
B135:A-ET	BH115:A-E4						
B49T		BH48 BH49 BH49:A1-3 BH50	BH84 BH85 BH85:A1-3 BH86	BH84 BH85 BH85:A1-3 BH86	BH65 BH66 BH66:A1-4	BH65 BH66 BH66:A1-4	BH65 BH66 BH66:A1-4
B116T	BH95	BH88	BH100	BH100	BH82	BH82	BH82
B117:A-RT	BH96:A-U1	BH89:1-4	BH101:A-D	BH101:A-D	BH83:A-E	BH83:A-E	BH83:A-E
B136T		BH91	BH102 BH103 BH104 BH105 BH105A BH106:HR BH106:MN BH106:AP	BH102 BH103 BH104 BH105 BH105A BH106:HR BH106:MN BH106:AP	BH84 BH84 BH89 BH90 BH90:A BH91:HR BH91:MN BH91:AP	BH84 BH84 BH89 BH90 BH90:A BH91:HR BH91:MN BH91:AP	BH84 BH84 BH89 BH90 BH90:A BH91:HR BH91:MN BH91:AP
B137T			BHSTAT BM1:HR BM1:MN BM1:AP BM2	BHSTAT BM1:HR BM1:MN BM1:AP BM2			
BMSTT		BHSTAT					
B3M							
B3AM							
B3BM	BM1	BM1	BM3	BM3	BM3	BM3	BM3
B4:AM	BM2:A	BM2:A	BM4:A	BM4:A	BM4:A	BM4:A	BM4:A
B4:BM	BM2:B	BM2:B	BM4:B	BM4:B	BM4:B	BM4:B	BM4:B
B4:CM	BM2:C	BM2:C	BM4:C	BM4:C	BM4:C	BM4:C	BM4:C
B4:DM	BM2:D	BM2:D	BM4:D	BM4:D	BM4:D	BM4:D	BM4:D
B4:EM	BM2:E	BM2:E	BM4:E	BM4:E	BM4:E	BM4:E	BM4:E
	BM2:F	BM2:F	BM4:F	BM4:F	BM4:F	BM4:F	BM4:F
B4:FM	BM2:G	BM2:G	BM4:G	BM4:G	BM4:G	BM4:G	BM4:G
B4:GM	BM2:H	BM2:H	BM4:H	BM4:H	BM4:H	BM4:H	BM4:H
B4:HM	BM2:I	BM2:I	BM4:I	BM4:I	BM4:I	BM4:I	BM4:I
B4:IM	BM2:K						
		BM2:J	BM4:J	BM4:J	BM4:J	BM4:J	BM4:J
B4:JM	BM2:L	BM2:K1-2	BM4:K1-2	BM4:K1-2	BM4:K1-2	BM4:K1-2	BM4:K1-2
B4:KM	BM2:M						
		BM3 BM4 BM4:A-E BM5 BM5:A1-3 BM6 BM6:A1-3	BM5 BM6 BM6A-E BM7 BM7A:1-2 BM8 BM8A:1-3	BM5 BM6 BM6A-E BM7 BM7A:1-2 BM8 BM8A:1-3	BM5 BM6 BM6A-E BM7 BM7A:1-2 BM8 BM8A:1-2	BM5 BM6 BM6A-E BM7 BM7A:1-2 BM8 BM8A:1-2	BM5 BM6 BM6A-E BM7 BM7A:1-2 BM8 BM8A:1-2
B5M	BM3	BM7	BM9	BM9	BM9	BM9	BM9
B6M	BM4	BM8	BM10	BM10			
	BM5	BM9	BM11	BM11	BM10	BM10	BM10
B7M	BM5A	BM10	BM12	BM12	BM11A	BM11A	BM11A
		BM13*	BM12B	BM12B	BM11B	BM11B	BM11B
B8M	BM6	BM11	BM13	BM13	BM12A	BM12A	BM12A

*This variable is listed more than once in this column because its corresponding variables are not numerically adjacent.

<u>TH11</u>	<u>TH21</u>	<u>TH12</u>	<u>TH22</u>	<u>TH13</u>	<u>TH23</u>	<u>TH14</u>	<u>TH24</u>
		BM13*	BM13B	BM13B	BM12B	BM12B	BM12B
		BM12					
B9M	BM7	BM14	BM14	BM14	BM13	BM13	BM13
B10:AM	BM8:A	BM15:A	BM15:A	BM15:A			
B10:BM	BM8:B	BM15:B	BM15:B	BM15:B			
B10:CM	BM8:C	BM15:C	BM15:C	BM15:C			
B10:DM	BM8:D	BM15:D	BM15:D	BM15:D			
B10:EM	BM8:E	BM15:E	BM15:E	BM15:E			
	BM8:F	BM15:F	BM15:F	BM15:F			
	BM8:G	BM15:G	BM15:G	BM15:G			
	BM8:H	BM15:H	BM15:H	BM15:H			
B10:FM	BM8:I	BM15:I	BM15:I	BM15:I			
	BM8:J	BM15:J	BM15:J	BM15:J			
	BM8:K						
	BM9	BM16	BM16	BM16			
B11:AM	BM9:A	BM17:A	BM17:A	BM17:A			
B11:BM	BM9:B	BM17:B	BM17:B	BM17:B			
B11:CM	BM9:C	BM17:C	BM17:C	BM17:C			
B11:DM	BM9:D	BM17:D	BM17:D	BM17:D			
B11:EM	BM9:E	BM17:E	BM17:E	BM17:E			
	BM9:F	BM17:F	BM17:F	BM17:F			
	BM9:G	BM17:G	BM17:G	BM17:G			
	BM9:H	BM17:H	BM17:H	BM17:H			
	BM9:I	BM17:I	BM17:I	BM17:I			
B11:FM	BM9:J	BM17:J	BM17:J	BM17:J			
B11:GM							
B12M	BM10	BM19	BM19	BM19	BM14	BM14	BM14
B13M	BM11						
B14M	BM12						
B15M	BM13						
B16M	BM14						
B17M	BM15	BM20	BM20	BM20			
B18M	BM16	BM21	BM21	BM21	BM15	BM15	BM15
B19:AM	BM17						
B19:BM	BM17:A						
B19:CM	BM17:B						
B19:DM	BM17:C						
B19:EM	BM17:D						
B19:FM	BM17:E						
B19:GM	BM17:F						
	BM17:G						
	BM17:H						
	BM17:I						
	BM17:J						
B19:HM	BM17:K						
B20:1M	BM20B:1						
B20:2M	BM18:1	BM22:A	BM22:A	BM22:A	BM16:A	BM16:A	BM16:A
B20:3M	BM18:3	BM22:B	BM22:B	BM22:B	BM16:B	BM16:B	BM16:B
							BM16:C
B20:4M	BM18:4	BM22:C	BM22:C	BM22:C	BM16:C	BM16:C	BM16:D
B20:5M	BM18:5	BM22:D	BM22:D	BM22:D	BM16:D	BM16:D	BM16:E
B20:6M	BM18:6	BM22:E	BM22:E	BM22:E	BM16:E	BM16:E	BM16:F
B20:7M	BM21:7	BM22:F	BM22:F	BM22:F	BM16:F	BM16:F	BM16:G
B20A:7M	BM21A:7						
B20:8M	BM21:8	BM22:G	BM22:G	BM22:G	BM16:G	BM16:G	BM16:H
B20A:8M	BM21A:8						
B21:2M	BM19:1	BM23:A	BM23:A	BM23:A	BM17:A	BM17:A	BM17:A
	BM19:2						
B21:3M	BM19:3	BM23:B	BM23:B	BM23:B	BM17:B	BM17:B	BM17:B
B21:4M	BM19:4	BM23:C	BM23:C	BM23:C	BM17:C	BM17:C	BM17:D
B21:5M	BM19:5	BM23:D	BM23:D	BM23:D	BM17:D	BM17:D	BM17:E
B21:6M	BM19:6	BM23:E	BM23:E	BM23:E	BM17:E	BM17:E	BM17:F
B21:7M	BM21B:7	BM23:F	BM23:F	BM23:F	BM17:F	BM17:F	BM17:G
B21:8M	BM21B:8	BM23:G	BM23:G	BM23:G	BM17:G	BM17:G	BM17:H
		BM24	BM24	BM24	BM18	BM18	BM18
B22:1M	BM20:2						

*This variable is listed more than once in this column because its corresponding variables are not numerically adjacent.

<u>TH11</u>	<u>TH21</u>	<u>TH12</u>	<u>TH22</u>	<u>TH13</u>	<u>TH23</u>	<u>TH14</u>	<u>TH24</u>
B22:2M B22:3M	BM20:1 BM20:3	BM25:A BM25:B	BM25:A BM25:B	BM25:A BM25:B	BM19:A BM19:B	BM19:A BM19:B	BM19:A BM19:B BM19:C BM19:D BM19:E BM19:F BM19:G BM19:H
B22:4M B22:5M B22:6M B22:7M B22:8M B23:1M	BM20:4 BM20:5 BM20:6 BM21C:7 BM21C:8 BM20A:1	BM25:C BM25:D BM25:E BM25:F BM25:G	BM25:C BM25:D BM25:E BM25:F BM25:G	BM25:C BM25:D BM25:E BM25:F BM25:G	BM19:C BM19:D BM19:E BM19:F BM19:G	BM19:C BM19:D BM19:E BM19:F BM19:G	
B24M B25M B26M B27M B28M B29M B34M B35M B36M B37M B38M	BM22 BM22A BM23 BM24 BM25 BM26	BM26 BM27	BM26 BM27	BM26 BM27	BM20 BM21 BM22 BM23	BM20 BM21 BM22 BM23	BM20 BM21 BM22 BM23
B39M B30M B31M B32M B33M B40M B41M B42M B43M B44M B45M B46M B64M B47M B48M B49M B50M B51M	BM27 BM28 BM34	BM30 BM31 BM35	BM30 BM31	BM30 BM31	BM26 BM27	BM26 BM27	BM26 BM27
B39M B30M B31M B32M B33M B40M B41M B42M B43M B44M B45M B46M B64M B47M B48M B49M B50M B51M	BM29 BM30 BM31 BM32 BM33 BM35 BM36 BM37 BM38	BM32 BM33	BM32 BM33	BM32 BM33	BM28 BM31	BM28 BM31	BM28 BM31
B52M	BM40 BM41 BM42 BM43 BM44 BM45 BM46	BM39 BM59 BM40 BM41 BM42 BM43	BM37 BM38 BM40 BM41 BM42 BM43	BM37 BM38 BM40 BM41 BM42 BM43	BM32 BM34 BM35 BM36 BM37	BM32 BM34 BM35 BM36 BM37	BM32 BM34 BM35 BM36 BM37
B52M	BM47	BM47 BM48	BM45 BM45A	BM45 BM45A	BM39 BM39A	BM39 BM39A	BM39 BM39A
B73M B74:1-2M	BM70 BM71:1-2 BM74A	BM74 BM75:1-2 BM76	BM49 BM50:1-2 BM51	BM49 BM50:1-2 BM51	BM40 BM41:1-2 BM41A	BM40 BM41:1-2 BM41A	BM40 BM41:1-2 BM41A
B75M B76M	BM71A BM72	BM77 BM78 BM79 BM80 BM81	BM51A BM52 BM52A	BM51A BM52 BM52A			
B77M	BM73	BM82 BM83					
B78M	BM74	BM84 BM85					
B81M	BM75 BM78	BM86	BM53	BM53			
B82:AM B82:BM B79:AM B79:BM B80:AM B83:AM B80:BM B83:BM B84M	BM78A BM78B BM76A BM76B BM77A BM79A BM77B BM79B BM80	BM87 BM88	BM54 BM55 BM56	BM54 BM55 BM56			

<u>TH11</u>	<u>TH21</u>	<u>TH12</u>	<u>TH22</u>	<u>TH13</u>	<u>TH23</u>	<u>TH14</u>	<u>TH24</u>
B85M	BM81	BM89	BM57 BM57A	BM57 BM57A			
B86M B87M B88M	BM82 BM83 BM84	BM90 BM91 BM92:A-C	BM58 BM58A { BM59:A1-4 BM59:B1-4 BM59:C1-4	BM58 BM58A BM59:A1-4 BM59:B1-4 BM59:C1-4	BM42 BM42A BM43:1-4 BM44:1-4	BM42 BM42A BM43:1-4 BM44:1-4	BM42 BM42A BM43:1-4 BM44:1-4
					BM45 BM46:1-4 BM47 BM48	BM45 BM46:1-4 BM47 BM48	BM45 BM46:1-6 BM47 BM48
B89:A-BM B90M B91M B92M B93M	BM85A-B BM86 BM87 BM88 BM89	BM93	BM59:D	BM59:D			
		BM94	BM60 BM60A	BM60 BM60A	BM49 BM50 BM50A	BM49 BM50 BM50A	BM49 BM50 BM50A
B94M B95M B96M B97M	BM90 BM90A BM91 BM92 BM93	BM95 BM96	BM61	BM61	BM51	BM51	BM51
B98M	BM94	BM97	BM62 BM62A BM63 BM63A	BM62 BM62A BM63 BM63A	BM52 BM52A BM53 BM53A	BM52 BM52A BM53 BM53A	BM52 BM52A BM53 BM53A
B99M B100M B101M	BM95 BM96 BM97	BM100 BM100A	BM64 BM64A	BM64 BM64A	BM54 BM54A	BM54 BM54A	BM54 BM54A
B102M B103M B104M B105M B106M	BM98 BM99 BM100 BM101 BM102	BM101 BM102 BM103	BM65 BM66 BM66A BM66B	BM65 BM66 BM66A BM66B	BM55 BM55A BM55B	BM55 BM55A BM55B	BM55 BM55A BM55B
B107M B108M	BM103 BM104	BM104	BM67 BM67A BM67B	BM67 BM67A BM67B			
B109M B110M B111M B112M B113M B114M B115M B116M B117M	BM105 BM106 BM107 BM108 BM109 BM110 BM111 BM112 BM113	BM105 BM106 BM107	BM68	BM68			
B118:AM B118:BM	BM114:A BM114:B	BM108:A BM108:B	BM69A BM69B	BM69A BM69B	BM56 BM56A BM56B	BM56 BM56A BM56B	BM56 BM56A BM56B
B118:C1M B118:C2-3M B118:D1M B118:D2-3M B118:EM B118:FM	BM114:C1 BM114:C2-3 BM114:D1 BM114:D2-3 BM114:E BM114:F	BM108:C BM108:D BM108:E BM108:F	BM69C BM69D BM69E BM69F	BM69C BM69D BM69E BM69F	BM57 BM57A BM57B BM58 BM58A BM58B	BM57 BM57A BM57B BM58 BM58A BM58B	BM57 BM57A BM57B BM58 BM58A BM58B
B118:GM	BM114:G	BM108:E	BM69G	BM69G	BM59 BM59A	BM59 BM59A	BM59 BM59A

<u>TH11</u>	<u>TH21</u>	<u>TH12</u>	<u>TH22</u>	<u>TH13</u>	<u>TH23</u>	<u>TH14</u>	<u>TH24</u>
					BM59B	BM59B	BM59B
B118:IM	BM114:I		BM69I	BM69I	BM60	BM60	BM60
					BM60A	BM60A	BM60A
B118:JM	BM114:J	BM108:H	BM69J	BM69J	BM60B	BM60B	BM60B
					BM61	BM61	BM61
B118:KM	BM114:K	BM108:I			BM61A	BM61A	BM61A
B118:LM	BM114:L	BM108:J	BM69K	BM69K	BM61B	BM61B	BM61B
B118:MM	BM114:M	BM108:K					
			BM70	BM70	BM62	BM62	BM62
					BM62A	BM62A	BM62A
					BM62B	BM62B	BM62B
					BM63	BM63	BM63
B122M	BM117						
B123M	BM118						
B124M	BM119						
B125M	BM120						
B126M	BM121						
		BM109					
B127M	BM122	BM110	BM71	BM71	BM64	BM64	BM64
B128M	BM123						
B129M	BM124						
B130M	BM125	BM115	BM72	BM72			
B131M	BM127		BM73	BM73	BM85*	BM85*	BM85*
		BM116					
			BM75	BM75	BM87*	BM87*	BM87*
			BM75A	BM75A	BM87A*	BM87A*	BM87A*
B132:A-EM	BM128AA-E1	BM117:A-F	BM74:1-6	BM74:1-6	BM86:1-4*	BM86:1-4*	BM86:1-4*
			BM76:1-6	BM76:1-6	BM88:1-4*	BM88:1-4*	BM88:1-4*
			BM77:1-6	BM77:1-6			
	BM129:A-E2						
B133:A-EM	BM129AA-E3						
B134:A-EM	BM130:A-E4						
B135M	BM131	BM118	BM78	BM78			
B136M	BM132		BM79	BM79	BM85*	BM85*	BM85*
		BM119					
			BM81	BM81	BM87*	BM87*	BM87*
			BM81A	BM81A	BM87A*	BM87A*	BM87A*
B137:A-EM	BM133AA-E1	BM120:A-F	BM80:1-6	BM80:1-6	BM86:1-4*	BM86:1-4*	BM86:1-4*
			BM82:1-6	BM82:1-6	BM88:1-4*	BM88:1-4*	BM88:1-4*
			BM83:1-6	BM83:1-6			
	BM134:A-E2						
B138:A-EM	BM135:A-E3						
B139:A-EM	BM136:A-E4						
B53M		BM49	BM84	BM84	BM65	BM65	BM65
		BM50	BM85	BM85	BM66	BM66	BM66
		BM50:A1-3	BM85:A1-3	BM85:A1-3	BM66:A1-4	BM66:A1-4	BM66:A1-4
		BM51	BM86	BM86			
B54M	BM48	BM52	BM87	BM87	BM68	BM68	BM68
B55M	BM49 }	BM53	BM88	BM88	BM69	BM69	BM69
B56M	BM50 }						
B57:1M	BM51:1	BM54:1	BM89:2	BM89:2	BM70	BM70	BM70
B58:1M	BM52:1						
B59:1M	BM53:1	BM54:A1	BM89:A2	BM89:A2	BM70A	BM70A	BM70A
B60:1M	BM54:1						
B57:2M	BM51:2	BM54:2	BM89:3	BM89:3	BM71	BM71	BM71
B58:2M	BM52:2						
B59:2M	BM53:2	BM54:A2	BM89:A3	BM89:A3	BM71A	BM71A	BM71A
B60:2M	BM54:2						
B61M	BM55	BM55	BM89:B3	BM89:B3	BM71B	BM71B	BM71B
B61AM	BM56	BM56	BM89:4	BM89:4	BM72	BM72	BM72
B61BM	BM57						
B61CM	BM58	BM56:A	BM89:A4	BM89:A4	BM72A	BM72A	BM72A
B61DM	BM59						
			BM89:B4	BM89:B4			
B57:3M	BM51:3	BM54:3	BM89:5	BM89:5			

*This variable is listed more than once in this column because its corresponding variables are not numerically adjacent.

<u>TH11</u>	<u>TH21</u>	<u>TH12</u>	<u>TH22</u>	<u>TH13</u>	<u>TH23</u>	<u>TH14</u>	<u>TH24</u>
B2:GL		BL4:I	BL4:I	BL4:I	BL4:I	BL4:I	BL4:I
B2:HL							
B2:IL		BL4:J	BL4:J	BL4:J	BL4:J	BL4:J	BL4:J
B2:JL		BL4:K1-2	BL4:K1-2	BL4:K1-2	BL4:K1-2	BL4:K1-2	BL4:K1-2
B3L							
B4L		BL5	BL9	BL9	BL9	BL9	BL9
B4AL		BL6	BL10	BL10	BL10	BL10	BL10
B4BL		BL7	BL11	BL11	BL11	BL11	BL11
B4CL		BL8	BL12:A	BL12:A	BL11C	BL11C	BL11C
B5L		BL9	BL12:C	BL12:C	BL11D	BL11D	BL11D
B6L		BL10	BL12:D	BL12:D			
B7L		BL11	BL13	BL13	BL12	BL12	BL12
B8L		BL12	BL13:C	BL13:C	BL12C	BL12C	BL12C
B9L		BL13	BL13:D	BL13:D	BL12D	BL12D	BL12D
B10:AL		BL14	BL14	BL14	BL13	BL13	BL13
B10:BL		BL15:A	BL15:A	BL15:A			
B10:CL		BL15:B	BL15:B	BL15:B			
B10:DL		BL15:C	BL15:C	BL15:C			
B10:EL		BL15:D	BL15:D	BL15:D			
		BL15:E	BL15:E	BL15:E			
		BL15:F	BL15:F	BL15:F			
		BL15:G	BL15:G	BL15:G			
		BL15:H	BL15:H	BL15:H			
		BL15:I	BL15:I	BL15:I			
B10:FL		BL15:J	BL15:J	BL15:J			
		BL16	BL16	BL16			
B11:AL		BL17:A	BL17:A	BL17:A			
B11:BL		BL17:B	BL17:B	BL17:B			
B11:CL		BL17:C	BL17:C	BL17:C			
B11:DL		BL17:D	BL17:D	BL17:D			
B11:EL		BL17:E	BL17:E	BL17:E			
		BL17:F	BL17:F	BL17:F			
		BL17:G	BL17:G	BL17:G			
		BL17:H	BL17:H	BL17:H			
		BL17:I	BL17:I	BL17:I			
B11:FL		BL17:J	BL17:J	BL17:J			
B11:GL							
B12L							
B13L							
B14L		BL19	BL20	BL20	BL15	BL15	BL15
B15L }		BL20	BL21	BL21			
B16L }							
B17:A-HL							
B18:1L							
B19:1L							
B18:2L		BL21:1 }	BL22:A	BL22:A	BL16:A	BL16:A	BL16:A
B19:2L		BL22:1 }					
B18:3L		BL21:2 }	BL22:A1	BL22:A1	BL16:A1	BL16:A1	BL16:A1
B19:3L		BL22:2 }					
B18:4L		BL21:3 }	BL22:B	BL22:B	BL16:B	BL16:B	BL16:B
B19:4L		BL22:3 }					
B18:5L		BL21:4 }	BL22:B1	BL22:B1	BL16:B1	BL16:B1	BL16:C
B19:5L		BL22:4 }					
B18:6L		BL24:5 }	BL22:C	BL22:C	BL16:C	BL16:C	BL16:D
B19:6L		BL24A:5 }					
B18:7L		BL24:6 }	BL22:D	BL22:D	BL16:D	BL16:D	BL16:E
B19:7L		BL24A:6 }					
B18:8L		BL24:7 }	BL22:E	BL22:E	BL16:E	BL16:E	BL16:F
B19:8L		BL24A:7 }					
B18:9L		BL24:8 }	BL22:F	BL22:F	BL16:F	BL16:F	BL16:G
B19:9L		BL24A:8 }					
B18:10L		BL24:9 }	BL22:G	BL22:G	BL16:G	BL16:G	BL16:H
B19:10L		BL24A:9 }					
B20:1L							
B20:2L		BL23:1	BL23:A	BL23:A	BL17:A	BL17:A	BL17:A
B20:3L		BL23:2	BL23:A1	BL23:A1	BL17:A1	BL17:A1	BL17:A1
B20:4L		BL23:3	BL23:B	BL23:B	BL17:B	BL17:B	BL17:B
B20:6L		BL25:5	BL23:C	BL23:C	BL17:C	BL17:C	BL17:D

<u>TH11</u>	<u>TH21</u>	<u>TH12</u>	<u>TH22</u>	<u>TH13</u>	<u>TH23</u>	<u>TH14</u>	<u>TH24</u>
B20:7L		BL25:6	BL23:D	BL23:D	BL17:D	BL17:D	BL17:E
B20:8L		BL25:7	BL23:E	BL23:E	BL17:E	BL17:E	BL17:F
B20:9L		BL25:8	BL23:F	BL23:F	BL17:F	BL17:F	BL17:G
B20:10L		BL25:9	BL23:G	BL23:G	BL17:G	BL17:G	BL17:H
B21:1L		BL26	BL24	BL24	BL18	BL18	BL18
B21A:1L							
B21:2L		BL26A:1	BL25:1	BL25:1	BL19:A	BL19:A	BL19:A
B21:3L		BL26A:2	BL25:2	BL25:2	BL19:B	BL19:B	BL19:B
B21:4L		BL26A:3	BL25:3	BL25:3	BL19:C	BL19:C	BL19:C
		BL26A:4	BL25:4	BL25:4	BL19:D	BL19:D	BL19:D
B21:6L		BL26A:5	BL25:5	BL25:5	BL19:E	BL19:E	BL19:E
B21:7L		BL26A:6	BL25:6	BL25:6	BL19:F	BL19:F	BL19:F
B21:8L		BL26A:7	BL25:7	BL25:7	BL19:G	BL19:G	BL19:G
B21:9L		BL26A:8	BL25:8	BL25:8	BL19:H	BL19:H	BL19:H
B21:10L		BL26A:9	BL25:9	BL25:9	BL19:I	BL19:I	BL19:I
					BL20	BL20	BL20
					BL21	BL21	BL21
B27L			BL26	BL26	BL22	BL22	BL22
B28L		BL32	BL27	BL27	BL23	BL23	BL23
B29L							
B30L		BL33	BL28	BL28	BL24	BL24	BL24
B31L		BL34	BL29	BL29	BL25	BL25	BL25
B32L							
B37L		BL35	BL30	BL30	BL26	BL26	BL26
B38L		BL36	BL31	BL31	BL27	BL27	BL27
B39L		BL40					
		BL37	BL32	BL32	BL28	BL28	BL28
B40L							
B33L		BL38					
B34L							
B35L		BL39	BL33	BL33	BL29	BL29	BL29
B36L		BL39A	BL33:A	BL33:A	BL29A	BL29A	BL29A
B41L		BL41	BL34	BL34			
B42L		BL42	BL35	BL35	BL30	BL30	BL30
B43L							
B44L		BL43	BL36	BL36	BL31	BL31	BL31
B45L							
B46L			BL37	BL37			
B47L		BL44	BL38	BL38	BL32	BL32	BL32
B48L		BL45	BL39	BL39	BL33	BL33	BL33
B66L		BL65	BL40	BL40	BL34	BL34	BL34
B49L		BL46	BL41	BL41	BL35	BL35	BL35
B50L		BL47	BL42	BL42	BL36	BL36	BL36
B51L } B52L }		BL48	BL43	BL43	BL37	BL37	BL37
B53L		BL49	BL44	BL44	BL38	BL38	BL38
		BL50	BL44:A	BL44:A	BL38A	BL38A	BL38A
		BL51					
		BL52					
B54L		BL53	BL45	BL45	BL39	BL39	BL39
		BL54	BL45:A	BL45:A	BL39A	BL39A	BL39A
			BL46	BL46			
B56L			BL47	BL47			
B57L			BL48	BL48			
B74L		BL77	BL49	BL49	BL40	BL40	BL40
B75:1-2L		BL78:1-2	BL50:1-2	BL50:1-2	BL41:1-2	BL41:1-2	BL41:1-2
		BL79	BL51	BL51	BL41A	BL41A	BL41A
B76L		BL80	BL52	BL52			
		BL81	BL52:A	BL52:A			
		BL82					
		BL83					
B77L		BL84					
		BL85					
B78L		BL86					
		BL87					
B81L		BL88	BL53	BL53			
B82:AL			BL54	BL54			
B82:BL							

<u>TH11</u>	<u>TH21</u>	<u>TH12</u>	<u>TH22</u>	<u>TH13</u>	<u>TH23</u>	<u>TH14</u>	<u>TH24</u>
B79:AL B79:BL B80:AL } B83:AL } B80:BL B83:BL B84L B85L		BL89 BL90 BL100 BL91	BL55 BL56 BL57 BL57:A	BL55 BL56 BL57 BL57:A			
B86L B87L B88L		BL92 BL93 BL94:A-C	BL58 BL58:A BL59:A1-4 BL59:B1-4 BL59:C1-4	BL58 BL58:A BL59:A1-4 BL59:B1-4 BL59:C1-4	BL42 BL42A BL43:1-4 BL44:1-4 BL45 BL46:1-4 BL47 BL48	BL42 BL42A BL43:1-4 BL44:1-4 BL45 BL46:1-4 BL47 BL48	BL42 BL42A BL43:1-4 BL44:1-4 BL45 BL46:1-4 BL47 BL48
B89:A-BL B90L B91L B92L B93L B94L B95L B96L		BL95 BL96 BL97	BL59:D BL60 BL60:A	BL59:D BL60 BL60:A		BL49 BL49 BL49	
					BL50 BL50A BL51 BL52 BL52A BL53 BL53A	BL50 BL50A BL51 BL52 BL52A BL53 BL53A	BL50 BL50A BL51 BL52 BL52A BL53 BL53A
B97L B98L		BL98 BL99 BL101	BL61 BL62 BL62:A BL63 BL63:A	BL61 BL62 BL62:A BL63 BL63:A			
B99L B100L B101L		BL102 BL103	BL64 BL64:A	BL64 BL64:A	BL54 BL54A	BL54 BL54A	BL54 BL54A
B102L B103L B104L B105L B106L		BL104 BL105 BL106	BL65 BL66 BL66:A BL66:B	BL65 BL66 BL66:A BL66:B	BL55 BL55A BL55B	BL55 BL55A BL55B	BL55 BL55A BL55B
B107L B108L		BL107	BL67 BL67:A BL67:B	BL67 BL67:A BL67:B			
B109L B110L B111L B112L B113L B114L B115L B116L			BL68	BL68			
B116A:AL B116A:BL		BL108 BL109					
B116AC1L B116AC2-3L B116AD1L B116AD2-3L B116A:EL B116A:FL		BL110:A BL110:B BL110:C BL110:D BL110:G	BL69:A BL69:B BL69:C BL69:D BL69:E BL69:F	BL69:A BL69:B BL69:C BL69:D BL69:E BL69:F	BL56 BL56A BL56B	BL56 BL56A BL56B	BL56 BL56A BL56B
					BL57 BL57A	BL57 BL57A	BL57 BL57A

<u>TH11</u>	<u>TH21</u>	<u>TH12</u>	<u>TH22</u>	<u>TH13</u>	<u>TH23</u>	<u>TH14</u>	<u>TH24</u>
B116A:GL		BL110:E	BL69:G	BL69:G	BL57B BL58 BL58A BL58B	BL57B BL58 BL58A BL58B	BL57B BL58 BL58A BL58B
B116A:HL		BL110:F	BL69:H	BL69:H	BL59 BL59A BL59B	BL59 BL59A BL59B	BL59 BL59A BL59B
B116A:IL			BL69:I	BL69:I	BL60 BL60A BL60B	BL60 BL60A BL60B	BL60 BL60A BL60B
B116A:JL		BL110:H	BL69:J	BL69:J	BL61 BL61A BL61B	BL61 BL61A BL61B	BL61 BL61A BL61B
B116A:KL B116A:LL B116A:ML		BL110:I BL110:J BL110:K	BL69:K	BL69:K	BL62 BL62A BL62B BL63	BL62 BL62A BL62B BL63	BL62 BL62A BL62B BL63
B120L B121L B122L B123L B124L			BL70	BL70			
B125L B126L B127L B128L B129L		BL111 BL112	BL71	BL71	BL64	BL64	BL64
		BL116	BL72 BL73	BL72 BL73	BL85*	BL85*	BL85*
		BL117	BL75 BL75:A	BL75 BL75:A	BL87* BL87A*	BL87* BL87A*	BL87* BL87A*
B130:A-EL		BL118:A-F	BL74:1-6 BL76:1-6 BL77:1-6	BL74:1-6 BL76:1-6 BL77:1-6	BL86:1-4* BL88:1-4*	BL86:1-4* BL88:1-4*	BL86:1-4* BL88:1-4*
B131:A-EL B132:A-EL B133L B134L		BL119	BL78 BL79	BL78 BL79	BL85*	BL85*	BL85*
		BL120	BL81 BL81:A	BL81 BL81:A	BL87* BL87A*	BL87* BL87A*	BL87* BL87A*
B135:A-EL		BL121:A-F	BL80:1-6 BL82:1-6 BL83:1-6	BL80:1-6 BL82:1-6 BL83:1-6	BL86:1-4* BL88:1-4*	BL86:1-4* BL88:1-4*	BL86:1-4* BL88:1-4*
B136:A-EL B137:A-EL B55L		BL55 BL56 BL56:A1-3 BL57 BL58 BL59	BL84 BL85 BL85:A1-3 BL86 BL87 BL88	BL84 BL85 BL85:A1-3 BL86 BL87 BL88	BL65 BL66 BL66:A1-4 BL68 BL69	BL65 BL66 BL66:A1-4 BL68 BL69	BL65 BL66 BL66:A1-4 BL68 BL69
B58L B59L } B60L }							
B61:1L B62:1L B62A:1L B62B:1L		BL60:1	BL89:1	BL89:1			
B61:2L B62:2L B62A:2L B62B:2L		BL60:A1	BL89:A1	BL89:A1			
B61:3L B62:3L B62A:3L		BL60:2	BL89:2	BL89:2	BL70	BL70	BL70
		BL60:A2	BL89:A2	BL89:A2	BL70A	BL70A	BL70A
		BL60:3	BL89:3	BL89:3	BL71	BL71	BL71
		BL60:A3	BL89:A3	BL89:A3	BL71A	BL71A	BL71A

*This variable is listed more than once in this column because its corresponding variables are not numerically adjacent.

TH11	TH21	TH12	TH22	TH13	TH23	TH14	TH24
B62B:3L B61:4L B62:4L B62A:4L B62B:4L B61:5L B62:5L B62A:5L B62B:5L B63L B64L B65L B68L B69L		BL61:1 BL61:A1 BL61:2 BL61:A2 BL63 BL62 BL64 BL66	BL89:4 BL89:A4 BL89:5 BL89:A5 BL90 BL92:A BL92:B BL92:C BL92:D BL92:E BL92:F BL92:G BL92:H BL92:I BL92:J BL92:K BL93:A BL93:B BL93:C BL93:D BL93:E BL93:F BL93:G	BL89:4 BL89:A4 BL89:5 BL89:A5 BL90 BL92:A BL92:B BL92:C BL92:D BL92:E BL92:F BL92:G BL92:H BL92:I BL92:J BL92:K BL93:A BL93:B BL93:C BL93:D BL93:E BL93:F BL93:G	BL72 BL72A BL73 BL74 BL75:A BL75:B BL75:C BL75:D BL75:E BL77:A BL77:B BL77:C BL77:F BL77:D BL77:E BL77:G BL77:H	BL72 BL72A BL73 BL74 BL75:A BL75:B BL75:C BL75:D BL75:E BL77:A BL77:B BL77:C BL77:F BL77:D BL77:E BL77:G BL77:H	BL72 BL72A BL73 BL74 BL75:A BL75:B BL75:C BL75:D BL75:E BL77:A BL77:B BL77:C BL77:F BL77:D BL77:E BL77:G BL77:H
B70:BL B70:CL B70:DL B70:EL B70:FL } B70:GL } B70:HL B70:IL B70:JL B70:KL B70:AL B67:AL B67:BL B67:CL B67:DL B67:EL } B67:FL } D67:GL B67:IL B67:HL B67:JL		BL67:A BL67:B BL67:C BL67:D BL67:E BL67:F BL69 BL70 BL71 BL72 BL73 BL74A:1-3 BL74:A-C BL75 BL76 BL114 BL113 BL113A:1-4 BL115	BL92:A BL92:B BL92:C BL92:D BL92:E BL92:F BL92:G BL92:H BL92:I BL92:J BL92:K BL93:A BL93:B BL93:C BL93:D BL93:E BL93:F BL93:G BL94 BL95 BL96 BL97:A-C BL98:1-3 BL99 BL100 BL101:1-4 BL102 BL103 BL104 BL105 BL105:A BLHREN BLMNEN BLAPEN BLSTAT CT1:HR CT1:MN CT1:AP CT2 CT3 CT4 CT5A CT5B:02-14 CT5C CT6	BL92:A BL92:B BL92:C BL92:D BL92:E BL92:F BL92:G BL92:H BL92:I BL92:J BL92:K BL93:A BL93:B BL93:C BL93:D BL93:E BL93:F BL93:G	BL75:A BL75:B BL75:C BL75:D BL75:E BL77:A BL77:B BL77:C BL77:F BL77:D BL77:E BL77:G BL77:H	BL75:A BL75:B BL75:C BL75:D BL75:E BL77:A BL77:B BL77:C BL77:F BL77:D BL77:E BL77:G BL77:H	BL75:A BL75:B BL75:C BL75:D BL75:E BL77:A BL77:B BL77:C BL77:F BL77:D BL77:E BL77:G BL77:H
B71L B72L B73L B117L B118L B119:A-RL B138L B139L BMSTL		BL74A:1-3 BL74:A-C BL75 BL76 BL114 BL113 BL113A:1-4 BL115	BL94 BL95 BL96 BL97:A-C BL98:1-3 BL99 BL100 BL101:1-4 BL102 BL103 BL104 BL105 BL105:A BLHREN BLMNEN BLAPEN BLSTAT CT1:HR CT1:MN CT1:AP CT2 CT3 CT4 CT5A CT5B:02-14 CT5C CT6	BL94 BL95 BL96 BL97:A-C BL98:1-3 BL99 BL100 BL101:1-4 BL102 BL103 BL104 BL105 BL105:A BLHREN BLMNEN BLAPEN BLSTAT CT1:HR CT1:MN CT1:AP CT2 CT3 CT4 CT5A CT5B:02-14 CT5C CT6	BL67 BL78 BL79 BL80:A-C BL81 BL82 BL83:1-5 BL84 BL89 BL90 BL90A BL91:HR BL91:MN BL91:AP CT1:HR CT1:MN CT1:AP CT2 CT3 CT4 CT5 CT6	BL67 BL78 BL79 BL80:A-C BL81 BL82 BL83:1-5 BL84 BL89 BL90 BL90A BL91:HR BL91:MN BL91:AP CT1:HR CT1:MN CT1:AP CT2 CT3 CT4 CT5 CT6	BL67 BL78 BL79 BL80:A-C BL81 BL82 BL83:1-5 BL84 BL89 BL90 BL90A BL91:HR BL91:MN BL91:AP CT1:HR CT1:MN CT1:AP CT2 CT3 CT4 CT5 CT6
C1T C2T C3T	CT1 CT1A CT1B CT2:A CT2:B1-88 CT3	CT1 CT2 CT3 CT4	CT1 CT2 CT3 CT4 CT5A CT5B:02-14 CT5C CT6	CT1 CT2 CT3 CT4 CT5A CT5B:02-14 CT5C CT6	CT1:HR CT1:MN CT1:AP CT2 CT3 CT4 CT5 CT6	CT1:HR CT1:MN CT1:AP CT2 CT3 CT4 CT5 CT6	CT1:HR CT1:MN CT1:AP CT2 CT3 CT4 CT5 CT6

<u>TH11</u>	<u>TH21</u>	<u>TH12</u>	<u>TH22</u>	<u>TH13</u>	<u>TH23</u>	<u>TH14</u>	<u>TH24</u>
C4T	CT4						
C5T	CT5	CT5	CT7	CT7	CT7	CT7	CT7
C6T	CT6	CT6	CT8	CT8	CT8	CT8	CT8
C7MT	CT7:M	CT7:M					
C7DT	CT7:D	CT7:D					
C7YT	CT7:Y	CT7:Y					
C8T	CT8	CT8	CT9	CT9	CT9	CT9	CT9
C9T	CT9	CT9	CT10	CT10	CT10	CT10	CT10
C9AT	CT10	CT10	CT11	CT11	CT11	CT11	CT11
C10T	CT11	CT11	CT12	CT12			
					CT12	CT12	CT12
C11T	CT11A	CT12	CT13	CT13			
C12:AT	CT12:A						
C12:BT	CT12:B						
C12:CT	CT12:C						
C12:DT	CT12:D						
C12:ET	CT12:E						
C12:FT	CT12:F						
C12:GT	CT12:G						
C12:HT	CT12:H						
	CT12:I						
	CT12:J						
	CT12:K						
C12:IT	CT13						
C13T	CT13						
C14T	CT14						
C15T	CT11B	CT13	CT14	CT14	CT13:A	CT13:A	CT13:A
C16T	CT15						
C17T	CT16						
C18T	CT17	CT14:A	CT15:A	CT15:A			
		CT14:B	CT15:B	CT15:B	CT13:B	CT13:B	CT13:B
					CT13:C	CT13:C	CT13:C
					CT13:D	CT13:D	CT13:D
					CT13:E	CT13:E	CT13:E
C19:AT	CT18A:A	CT14:C	CT15:C	CT15:C	CT14	CT14	CT14
C19:BT	CT18A:B	CT15	CT16	CT16	CT14A	CT14A	CT14A
C19:CT	CT18A:C	CT15A	CT16A	CT16A	CT15	CT15	CT15
C19AT	CT19	CT15B	CT16B	CT16B	CT16	CT16	CT16
C21T	CT21	CT16	CT17	CT17	CT17	CT17	CT17
C20MT	CT20A:M	CT17	CT18	CT18	CT18	CT18	CT18
C20YT	CT20A:Y	CT18	CT19	CT19	CT19	CT19	CT19
C22T	CT22	CT19	CT20	CT20	CT20	CT20	CT20
C23T	CT23	CT20	CT21	CT21	CT21	CT21	CT21
		CT21	CT22	CT22	CT22	CT22	CT22
		CT22	CT23	CT23	CT22	CT22	CT22
		CT23	CT24	CT24	CT23	CT23	CT23
		CT24	CT25	CT25	CT24	CT24	CT24
		CT25	CT26	CT26	CT25	CT25	CT25
C24T	CT24	CT25	CT26	CT26	CT25	CT25	CT25
C25T							
C26:AT	CT25:A	CT26:A	CT27:A	CT27:A	CT26:A	CT26:A	CT26:A
C26:BT	CT25:B	CT26:B	CT27:B	CT27:B	CT26:B	CT26:B	CT26:B
C26:CT	CT25:C	CT26:C	CT27:C	CT27:C			
C26:DT	CT25:D	CT26:D	CT27:D	CT27:D	CT26:C	CT26:C	CT26:C
C27T	CT26	CT27	CT28	CT28	CT27	CT27	CT27
C28T	CT27	CT28	CT29	CT29	CT28	CT28	CT28
C29T	CT28	CT29	CT30	CT30			
C94:1T	CT40:1	CT30:1	CT31:1	CT31:1	CT29:1	CT29:1	CT29:1
C97A:A1T	CT44:A1	CT33:A1	CT32:A1	CT32:A1	CT30:A1	CT30:A1	CT30:A1
C97A:B1T	CT44:B1	CT33:B1	CT32:B1	CT32:B1	CT30:B1	CT30:B1	CT30:B1
C97A:C1T	CT44:C1	CT33:C1	CT32:C1	CT32:C1	CT30:C1	CT30:C1	CT30:C1
C97A:D1T	CT44:D1	CT33:D1	CT32:D1	CT32:D1	CT30:D1	CT30:D1	CT30:D1
C96AB:1T	CT41:1	CT31:1	CT33:1	CT33:1	CT31:1	CT31:1	CT31:1
C97:A1T	CT43:A1	CT32:A1	CT34:A1	CT34:A1	CT32:A1	CT32:A1	CT32:A1
C97:B1T	CT43:B1	CT32:B1	CT34:B1	CT34:B1	CT32:B1	CT32:B1	CT32:B1
C97:C1T	CT43:C1	CT32:C1	CT34:C1	CT34:C1	CT32:C1	CT32:C1	CT32:C1
	CT43:D1	CT32:D1	CT34:D1	CT34:D1	CT32:D1	CT32:D1	CT32:D1
	CT43:E1	CT32:E1	CT34:E1	CT34:E1	CT32:E1	CT32:E1	CT32:E1
C94:2T	CT40:2	CT30:2	CT31:2	CT31:2	CT29:2	CT29:2	CT29:2
C97A:A2T	CT44:A2	CT33:A2	CT32:A2	CT32:A2	CT30:A2	CT30:A2	CT30:A2
C97A:B2T	CT44:B2	CT33:B2	CT32:B2	CT32:B2	CT30:B2	CT30:B2	CT30:B2

TH11	TH21	TH12	TH22	TH13	TH23	TH14	TH24
C97A:C2T	CT44:C2	CT33:C2	CT32:C2	CT32:C2	CT30:C2	CT30:C2	CT30:C2
C97A:D2T	CT44:D2	CT33:D2	CT32:D2	CT32:D2	CT30:D2	CT30:D2	CT30:D2
C96AB:2T	CT41:2	CT31:2	CT33:2	CT33:2	CT31:2	CT31:2	CT31:2
C97:A2T	CT43:A2	CT32:A2	CT34:A2	CT34:A2	CT32:A2	CT32:A2	CT32:A2
C97:B2T	CT43:B2	CT32:B2	CT34:B2	CT34:B2	CT32:B2	CT32:B2	CT32:B2
C97:C2T	CT43:C2	CT32:C2	CT34:C2	CT34:C2	CT32:C2	CT32:C2	CT32:C2
	CT43:D2	CT32:D2	CT34:D2	CT34:D2	CT32:D2	CT32:D2	CT32:D2
	CT43:E2	CT32:E2	CT34:E2	CT34:E2	CT32:E2	CT32:E2	CT32:E2
C97:A3T							
C97:B3T							
C97:C3T							
C94:4T	CT40:3	CT30:3	CT31:3	CT31:3	CT29:3	CT29:3	CT29:3
C96AB:4T	CT41:3	CT31:3	CT33:3	CT33:3	CT31:3	CT31:3	CT31:3
C97:A4T	CT43:A3	CT32:A3	CT34:A3	CT34:A3	CT32:A3	CT32:A3	CT32:A3
C97:B4T	CT43:B3	CT32:B3	CT34:B3	CT34:B3	CT32:B3	CT32:B3	CT32:B3
C97:C4T	CT43:C3	CT32:C3	CT34:C3	CT34:C3	CT32:C3	CT32:C3	CT32:C3
	CT43:D3	CT32:D3	CT34:D3	CT34:D3	CT32:D3	CT32:D3	CT32:D3
	CT43:E3	CT32:E3	CT34:E3	CT34:E3	CT32:E3	CT32:E3	CT32:E3
	CT40:4A	CT30:4A	CT31:OF	CT31:OF			
C94:5T	CT40:4B	CT30:4B	CT31:4	CT31:4	CT29:4	CT29:4	CT29:4
C97A:A5T	CT44:A4	CT33:A4	CT32:A4	CT32:A4	CT30:A4	CT30:A4	CT30:A4
C97A:B5T	CT44:B4	CT33:B4	CT32:B4	CT32:B4	CT30:B4	CT30:B4	CT30:B4
C97A:C5T	CT44:C4	CT33:C4	CT32:C4	CT32:C4	CT30:C4	CT30:C4	CT30:C4
C97A:D5T	CT44:D4	CT33:D4	CT32:D4	CT32:D4	CT30:D4	CT30:D4	CT30:D4
C96AB:5T	CT41:4	CT31:4	CT33:4	CT33:4	CT31:4	CT31:4	CT31:4
C97:A5T	CT43:A4	CT32:A4	CT34:A4	CT34:A4	CT32:A4	CT32:A4	CT32:A4
C97:B5T	CT43:B4	CT32:B4	CT34:B4	CT34:B4	CT32:B4	CT32:B4	CT32:B4
C97:C5T	CT43:C4	CT32:C4	CT34:C4	CT34:C4	CT32:C4	CT32:C4	CT32:C4
	CT43:D4	CT32:D4	CT34:D4	CT34:D4	CT32:D4	CT32:D4	CT32:D4
	CT43:E4	CT32:E4	CT34:E4	CT34:E4	CT32:E4	CT32:E4	CT32:E4
C94:6T	CT40:5	CT30:5	CT31:5	CT31:5	CT29:6	CT29:6	CT29:6
C96AB:6T	CT41:5	CT31:5	CT33:5	CT33:5	CT31:6	CT31:6	CT31:6
C97:A6T	CT43:A5	CT32:A5	CT34:A5	CT34:A5	CT32:A6	CT32:A6	CT32:A6
C97:B6T	CT43:B5	CT32:B5	CT34:B5	CT34:B5	CT32:B6	CT32:B6	CT32:B6
C97:C6T	CT43:C5	CT32:C5	CT34:C5	CT34:C5	CT32:C6	CT32:C6	CT32:C6
	CT43:D5	CT32:D5	CT34:D5	CT34:D5	CT32:D6	CT32:D6	CT32:D6
	CT43:E5	CT32:E5	CT34:E5	CT34:E5	CT32:E6	CT32:E6	CT32:E6
C94:7T	CT40:6	CT30:6	CT31:6	CT31:6	CT29:5	CT29:5	CT29:5
C96AB:7T	CT41:6	CT31:6	CT33:6	CT33:6	CT31:5	CT31:5	CT31:5
C97:A7T	CT43:A6	CT32:A6	CT34:A6	CT34:A6	CT32:A5	CT32:A5	CT32:A5
	CT43:D6	CT32:D6	CT34:D6	CT34:D6	CT32:D5	CT32:D5	CT32:D5
	CT43:E6	CT32:E6	CT34:E6	CT34:E6	CT32:E5	CT32:E5	CT32:E5
C97:A8T							
C97:B8T							
C97:C8T							
C94:9T	CT40:7	CT30:7	CT31:7	CT31:7	CT29:7	CT29:7	CT29:7
C96AB:9T	CT41:7	CT31:7	CT33:7	CT33:7	CT31:7	CT31:7	CT31:7
C97:A9T	CT43:A7	CT32:A7	CT34:A7	CT34:A7	CT32:A7	CT32:A7	CT32:A7
	CT43:D7	CT32:D7	CT34:D7	CT34:D7	CT32:D7	CT32:D7	CT32:D7
	CT43:E7	CT32:E7	CT34:E7	CT34:E7	CT32:E7	CT32:E7	CT32:E7
	CT44A:A1-5	CT34:A1-5	CT35:A1-5	CT35:A1-5	CT33:A1-2	CT33:A1-2	CT33:A1-2
	CT44A:B1-5	CT34:B1-5	CT35:B1-5	CT35:B1-5	CT33:B1-2	CT33:B1-2	CT33:B1-2
	CT44A:C1-5	CT34:C1-5	CT35:C1-5	CT35:C1-5	CT33:C1-2	CT33:C1-2	CT33:C1-2
	CT44A:D1-5	CT34:D1-5	CT35:D1-5	CT35:D1-5	CT33:D1-2	CT33:D1-2	CT33:D1-2
	CT44A:E1-5	CT34:E1-5	CT35:E1-5	CT35:E1-5	CT33:E1-2	CT33:E1-2	CT33:F1-2
	CT44A:F1-5	CT34:F1-5	CT35:F1-5	CT35:F1-5	CT33:F1-2	CT33:F1-2	CT33:E1-2
	CT44A:G1-5	CT34:G1-5	CT35:G1-5	CT35:G1-5	CT33:G1-2	CT33:G1-2	CT33:G1-2
	CT44B:A1-5	CT35:A1-5	CT36:A1-5	CT36:A1-5	CT34:A1-2	CT34:A1-2	CT34:A1-2
	CT44B:B1-5	CT35:B1-5	CT36:B1-5	CT36:B1-5	CT34:B1-2	CT34:B1-2	CT34:B1-2
	CT44B:C1-5	CT35:C1-5	CT36:C1-5	CT36:C1-5	CT34:C1-2	CT34:C1-2	CT34:C1-2
	CT44B:D1-5	CT35:D1-5	CT36:D1-5	CT36:D1-5	CT34:D1-2	CT34:D1-2	CT34:D1-2
							CT34:E
C98:AT	CT45:A	CT36:A					
C98:BT	CT45:B	CT36:B					
C98:CT	CT45:C	CT36:C					
C98:DT	CT45:D	CT36:D					
	CT45:E	CT36:E					
C98:ET	CT45:F	CT36:F					
C98:FT	CT45:G	CT36:G					

<u>TH11</u>	<u>TH21</u>	<u>TH12</u>	<u>TH22</u>	<u>TH13</u>	<u>TH23</u>	<u>TH14</u>	<u>TH24</u>
C98:GT	CT45:H	CT36:H					
C98:HT	CT45:I	CT36:I					
C98:IT	CT45:J	CT36:J					
		CT36:K					
C98:JT	CT45:K	CT36:L					
C99:AT	CT46:A						
C99:BT	CT46:B	CT37:A					
C99:CT	CT46:C	CT37:B					
C99:DT	CT46:D	CT37:C					
C99:ET	CT46:E	CT37:D					
C99:FT	CT46:F	CT37:E					
C99:GT	CT46:G	CT37:F					
C100T	CT47	CT38	CT39	CT39	CT37	CT37	CT37
C101:A-IT	CT48:A-I	CT39:A-I					
C101AT	CT48A	CT40	CT41	CT41	CT39	CT39	CT39
C102:1-14T	CT49:1-12	CT41:1-12	CT42:1-12	CT42:1-12	CT40:1-12	CT40:1-12	CT40:1-12
	CT50:1-12	CT42:1-12	CT43:1-12	CT43:1-12	CT41:1-12	CT41:1-12	CT41:1-12
	CT51A:2-12	CT43:2-12	CT43A:2-12	CT43A:2-12			
	CT51B:2-12	CT44:2-12	CT43B:2-12	CT43B:2-12			
	CT51C:1-12						
	CT51D:1-12						
C103:1-14T	CT51E:1-12	CT45:1-12	CT44:1-12	CT44:1-12	CT42:1-12	CT42:1-12	CT42:1-12
C104:1-14T	CT52:1-12	CT46:1-12	CT45:1-12	CT45:1-12	CT43:1-12	CT43:1-12	CT43:1-12
			CT46:1-12	CT46:1-12	CT44:1-12	CT44:1-12	CT44:1-12
			CT47:1-12	CT47:1-12	CT45:1-12	CT45:1-12	CT45:1-12
			CT48:1-12	CT48:1-12	CT46:1-12	CT46:1-12	CT46:1-12
			CT49:1-12	CT49:1-12			
			CT50:A1-12	CT50:A1-12	CT47:A1-12	CT47:A1-12	CT47:A1-12
			CT50:B1-12	CT50:B1-12	CT47:B1-12	CT47:B1-12	CT47:B1-12
			CT50:C1-12	CT50:C1-12	CT47:C1-12	CT47:C1-12	CT47:C1-12
			CT50:D1-12	CT50:D1-12	CT47:D1-12	CT47:D1-12	CT47:D1-12
			CT50:E1-12	CT50:E1-12	CT47:E1-12	CT47:E1-12	CT47:E1-12
			CT50:F1-12	CT50:F1-12	CT47:F1-12	CT47:F1-12	CT47:F1-12
			CT50:G1-12	CT50:G1-12	CT47:G1-12	CT47:G1-12	CT47:G1-12
			CT50:H1-12	CT50:H1-12	CT47:H1-12	CT47:H1-12	CT47:H1-12
			CT50:I1-12	CT50:I1-12	CT47:I1-12	CT47:I1-12	CT47:I1-12
C105:1-14T							
C105A1-14T	CT53:1-12	CT47:1-12	CT51:1-12	CT51:1-12	CT48:1-12	CT48:1-12	CT48:1-12
C106T							
C107T	CT54	CT48	CT52	CT52	CT49	CT49	CT49
C108T	CT55	CT49	CT53	CT53	CT50	CT50	CT50
C109T	CT56A	CT50	CT54	CT54	CT51	CT51	CT51
C110T							
C111T	CT56B	CT51	CT55	CT55	CT52	CT52	CT52
C84T	CT29	CT52	CT56	CT56	CT53	CT53	CT53
C85T	CT30	CT53	CT57	CT57	CT54	CT54	CT54
C86:A1-3T	CT31:A1-3	{ CT54:A1-2 } CT59:A	CT58:A1-3	CT58:A1-3	CT55:A1-3	CT55:A1-3	CT55:A1-3
C86:B1-3T	CT31:B1-3	{ CT54:B1-2 } CT59:B	CT58:B1-3	CT58:B1-3	CT55:B1-3	CT55:B1-3	CT55:B1-3
C86:C1-3T	CT31:C1-3	{ CT54:C1-2 } CT59:C	CT58:C1-3	CT58:C1-3	CT55:C1-3	CT55:C1-3	CT55:C1-3
C86:D1-3T	CT31:D1-3	{ CT54:D1-2 } CT59:D	CT58:D1-3	CT58:D1-3	CT55:D1-3	CT55:D1-3	CT55:D1-3
C86:E1-3T	CT31:E1-3	{ CT54:E1-2 } CT59:E	CT58:E1-3	CT58:E1-3	CT55:E1-3	CT55:E1-3	CT55:E1-3
C86:F1-3T	CT31:F1-3	{ CT54:F1-2 } CT59:F	CT58:F1-3	CT58:F1-3	CT55:F1-3	CT55:F1-3	CT55:F1-3
C86:G1-3T	CT31:G1-3	{ CT54:G1-2 } CT59:G	CT58:G1-3	CT58:G1-3	CT55:G1-3	CT55:G1-3	CT55:G1-3
	CT31:H1-3	{ CT54:H1-2 } CT59:H					
C87:1-3T	CT32:A1-3	{ CT55:1-2 } CT60	CT59:1-3	CT59:1-3	CT56:1-3	CT56:1-3	CT56:1-3
	CT32:B1-3						
C88:1-3T	CT33:1-3	{ CT56:1-2 } CT61	CT60:1-3	CT60:1-3	CT57:1-3	CT57:1-3	CT57:1-3
	CT34A:1-3						
	CT34B:1-3						

<u>TH11</u>	<u>TH21</u>	<u>TH12</u>	<u>TH22</u>	<u>TH13</u>	<u>TH23</u>	<u>TH14</u>	<u>TH24</u>
C89:1-3T	CT34C:1-3 CT35:1-3	{ CT57:1-2 } CT62 CT58	CT61:1-3	CT61:1-3	CT58:1-3	CT58:1-3	CT58:1-3
C90T	CT36 CT36A CT36B	CT67					
C91:1-2T	CT37A-B						
C92T	CT38						
C93:AT	CT39:A						
C93:BT	CT39:B						
C93:CT	CT39:C						
C93:DT	CT39:D						
C93:ET	CT39:E						
C93:FT	CT39:F						
C93:GT	CT39:G CT39:H						
		CT63 CT64 CT65	CT62 CT63 CT64	CT62 CT63 CT64	CT59 CT60	CT59 CT60	CT59 CT60
		CT66:A-C CT68	CT65:A-C CT66	CT65:A-C CT66			
C118T	CT57				CT61	CT61	CT61
C119:1-2T	CT58:1-5	CT69:1-5	CT67:1-5	CT67:1-5	CT62:1-2	CT62:1-2	CT62:1-2
C120:1-2T	CT59:1-5	CT70:1-5	CT68:1-5	CT68:1-5	CT63:1-2	CT63:1-2	CT63:1-2
C121:1T	CT60:1-4	CT71:1-4	CT69:1-4	CT69:1-4	CT64:1	CT64:1	CT64:1
C121A:1-2T							
C122T	CT61	CT72	CT70	CT70			
C123T	CT62	CT73					
C124T	CT63	CT74	CT71	CT71			
C125T	CT64	CT75	CT72	CT72			
C126T	CT65	CT76	CT73	CT73			
C127T	CT66	CT77					
C128T	CT67	CT78					
			CT74:HR CT74:MN CT74:AP CT75	CT74:HR CT74:MN CT74:AP CT75	CT65:HR CT65:MN CT65:AP CT66	CT65:HR CT65:MN CT65:AP CT66	CT65:HR CT65:MN CT65:AP CT66
C129T			CTSTAT	CTSTAT			
CMSTT	CTSTA	CTSTAT	CH1:HR CH1:MN CH1:AP CH2 CH2A CH3 CH4 CH5 CH6 CH7 CH8 CH9 CH10 CH11	CH1:HR CH1:MN CH1:AP CH2 CH2A CH3 CH4 CH5 CH6 CH7 CH8 CH9 CH10 CH11	CH1:HR CH1:MN CH1:AP CH2 CH2:A CH3 CH4 CH6 CH7 CH10 CH10:A CH8 CH9 CH9:A CH11	CH1:HR CH1:MN CH1:AP CH2 CH2:A CH3 CH4 CH6 CH7 CH10 CH10:A CH8 CH9 CH9:A CH11	CH1:HR CH1:MN CH1:AP CH2 CH2:A CH3 CH4 CH6 CH7 CH10 CH9 CH12 CH13
C1T	CH1	CH1	CH12	CH12	CH12	CH12	CH12
C2T	CH2 CH2A CH3	CH2 CH3	CH13 CH14 CH15 CH16	CH13 CH14 CH15 CH16	CH13 CH14 CH16 CH17 CH18	CH13 CH14 CH16 CH17 CH18	CH13 CH14 CH16 CH17 CH18
C31:MT	CH3A:M	CH4:M	CH17:M	CH17:M	CH19:MO	CH19:MO	CH19:MO
C31:YT	CH3A:Y	CH4:Y	CH17:Y	CH17:Y	CH19:YR	CH19:YR	CH19:YR
C30MT	CH4:M	CH5:M	CH18:M	CH18:M	CH20:MO	CH20:MO	CH20:MO
C30YT	CH4:Y	CH5:Y	CH18:Y	CH18:Y	CH20:YR	CH20:YR	CH20:YR
C32:AT	CH5:A	CH6:A	CH19A	CH19A	CH21:A	CH21:A	CH21:A
C32:BT	CH5:B	CH6:B	CH19B	CH19B	CH21:B	CH21:B	CH21:B
C32:CT	CH5:C	CH6:C	CH19C	CH19C	CH21:C	CH21:C	CH21:C
C32:DT	CH5:D CH5:D1 CH5:E	CH6:D CH6:D1 CH6:E	CH19D CH19E	CH19D CH19E	CH21:D CH21:E	CH21:D CH21:E	CH21:D CH21:E

TH11	TH21	TH12	TH22	TH13	TH23	TH14	TH24
C32:ET	CH5:F	CH6:F	CH19F	CH19F	CH21:F	CH21:F	CH21:F
C32:FT	CH5:G	CH6:G	CH19G	CH19G	CH21:G	CH21:G	CH21:G
C32:GT	CH5:H	CH6:H	CH19H	CH19H	CH21:H	CH21:H	CH21:H
C32:HT	CH5:I	CH6:I	CH19I	CH19I	CH21:I	CH21:I	CH21:I
C33T	CH5:I1 CH6	CH6:I1 CH7	CH20 CH20A-B	CH20 CH20A-B	CH22 CH22:A-B	CH22 CH22:A-B	CH22 CH22:A-B
C34T	CH6A	CH8	CH21	CH21	CH23	CH23	CH23
C35T	CH7	CH9	CH22	CH22	CH24	CH24	CH24
C36T	CH8	CH10	CH23	CH23	CH25	CH25	CH25
C37T	CH9	CH11	CH24	CH24	CH26	CH26	CH26
C38T	CH10	CH12	CH25	CH25	CH27	CH27	CH27
C39T	CH11	CH13	CH26	CH26	CH28	CH28	CH28
C40T	CH12	CH14					
C41T	CH13	CH15					
C42T	CH14	CH16					
	CH15	CH17					
		CH18					
		CH19					
		CH20					
		CH21					
		CH22					
C43T	CH16	CH23	CH27	CH27	CH29	CH29	CH29
C44T	CH16A	CH24	CH28	CH28	CH30	CH30	CH30
C45T	CH17	CH25	CH29	CH29	CH31	CH31	CH31
C46MT	CH18	CH26	CH30	CH30	CH32	CH32	CH32
C46YT	CH19:M	CH27:M	CH31:M	CH31:M	CH33:MO	CH33:MO	CH33:MO
	CH19:Y	CH27:Y	CH31:Y	CH31:Y	CH33:YR	CH33:YR	CH33:YR
C47T	CH20	CH28	CH32	CH32	CH35	CH35	CH35
C48T	CH21	CH29	CH33	CH33	CH34	CH34	CH34
C49T	CH22	CH30	CH34	CH34	CH36	CH36	CH36
C50T	CH22A	CH31	CH35	CH35	CH37	CH37	CH37
	CH23:B	CH32	CH36	CH36	CH38	CH38	CH38
	CH23C	CH32A	CH37	CH37	CH39	CH39	CH39
	CH24	CH33	CH37A	CH37A	CH39:A	CH39:A	CH39:A
C51T	CH24A	CH33A	CH38	CH38	CH40	CH40	CH40
C52T	CH24B						
C53T	CH25:1-3	CH34:1-3	CH39:1-3	CH39:1-3			
C55:1-3T	CH25A:1-3	CH35:1-3	CH40:1-3	CH40:1-3	CH42:1-3	CH42:1-3	CH42:1-3
	CH26:1-3	CH36:1-3	CH41:1-3	CH41:1-3	CH43:1-3	CH43:1-3	CH43:1-3
	CH26A:1-3						
	CH27:1-3						
	CH27:A1-3						
	CH28:1-3	CH37:1-3	CH42:1-3	CH42:1-3	CH44:1-3	CH44:1-3	CH44:1-3
C54:M1-3T	CH28A:M1-3	CH38:M1-3	CH43:M1-3	CH43:M1-3	CH45:MO1-3	CH45:MO1-3	CH45:MO1-3
C54:Y1-3T	CH28A:Y1-3	CH38:Y1-3	CH43:Y1-3	CH43:Y1-3	CH45:YR1-3	CH45:YR1-3	CH45:YR1-3
C56:1-3T	CH29:1-3	CH39:1-3	CH44:1-3	CH44:1-3	CH46:1-3	CH46:1-3	CH46:1-3
C57:1-3T	CH30:1-3	CH40:1-3	CH45:1-3	CH45:1-3	CH47:1-3	CH47:1-3	CH47:1-3
C58:M1-3T	CH31:M1-3	CH41:M1-3	CH46:M1-3	CH46:M1-3	CH48:MO1-3	CH48:MO1-3	CH48:MO1-3
C58:Y1-3T	CH31:Y1-3	CH41:Y1-3	CH46:Y1-3	CH46:Y1-3	CH48:YR1-3	CH48:YR1-3	CH48:YR1-3
C59:1-3T	CH32:1-3	CH42:1-3	CH47:1-3	CH47:1-3	CH49:1-3	CH49:1-3	CH49:1-3
C60:1-3T	CH33:1-3	CH43:1-3	CH48:1-3	CH48:1-3	CH50:1-3	CH50:1-3	CH50:1-3
C61:M1-3T	CH34:M1-3	CH44:M1-3	CH49:M1-3	CH49:M1-3	CH51:MO1-3	CH51:MO1-3	CH51:MO1-3
C61:Y1-3T	CH34:Y1-3	CH44:Y1-3	CH49:Y1-3	CH49:Y1-3	CH51:YR1-3	CH51:YR1-3	CH51:YR1-3
C62:A1-3T	CH35:A1-3	CH45:A1-3	CH50:A1-3	CH50:A1-3	CH52:YR1-3	CH52:YR1-3	CH52:YR1-3
C62:B1-3T	CH35:B1-3	CH45:B1-3	CH50:B1-3	CH50:B1-3	CH52:MO1-3	CH52:MO1-3	CH52:MO1-3
C63:1-3T	CH36:1-3	CH46:1-3	CH51:1-3	CH51:1-3	CH53:1-3	CH53:1-3	CH53:1-3
	CH36A:1-3	CH47:1-3	CH52:1-3	CH52:1-3	CH54:1-3	CH54:1-3	CH54:1-3
	CH36B:M1-3	CH48:M1-3					
	CH36B:Y1-3	CH48:Y1-3					
	CH36C:1-3	CH49:1-3	CH53:1-3	CH53:1-3	CH55:1-3	CH55:1-3	CH55:1-3
C64:A1-3T	CH37:A1-3	CH50:A1-3	CH54:A1-3	CH54:A1-3	CH56:A1-3	CH56:A1-3	CH56:A1-3
	CH37:B1-3	CH50:B1-3	CH54:B1-3	CH54:B1-3	CH56:B1-3	CH56:B1-3	CH56:B1-3
C64:B1-3T	CH37:C1-3	CH50:C1-3	CH54:C1-3	CH54:C1-3	CH56:C1-3	CH56:C1-3	CH56:C1-3
	CH37:D1-3	CH50:D1-3	CH54:D1-3	CH54:D1-3	CH56:D1-3	CH56:D1-3	CH56:D1-3
C65:A1-3T	CH38:A1-3	CH51:A1-3	CH55:A1-3	CH55:A1-3	CH57:A1-3	CH57:A1-3	CH57:A1-3
C65:B1-3T	CH38:B1-3	CH51:B1-3	CH55:B1-3	CH55:B1-3			
	CH38:C1-3	CH51:C1-3	CH55:C1-3	CH55:C1-3			

TH11	TH21	TH12	TH22	TH13	TH23	TH14	TH24
	CH38:D1-3	CH51:E1-3	CH55:D1-3	CH55:D1-3			
	CH38:E1-3	CH51:F1-3	CH55:E1-3	CH55:E1-3			
C65:M1-3T	CH38:M1-3	CH51:M1-3	CH55F:M1-3	CH55F:M1-3	CH57:MO1-3	CH57:MO1-3	CH57:MO1-3
C65:D1-3T		CH51:D1-3	CH55F:D1-3	CH55F:D1-3	CH57:B1-3D	CH57:B1-3D	CH57:BD1-3
C65:Y1-3T	CH38:Y1-3	CH51:Y1-3	CH55F:Y1-3	CH55F:Y1-3	CH57:YR1-3	CH57:YR1-3	CH57:YR1-3
C67:A1-3T	CH39:A1-3	CH52:A1-3	CH56:A1-3	CH56:A1-3	CH58:A1-3	CH58:A1-3	CH58:A1-3
C67:B1-3T	CH39:B1-3	CH52:B1-3	CH56:B1-3	CH56:B1-3	CH58:B1-3	CH58:B1-3	CH58:B1-3
C66:1-3T	CH40:1-3	CH53:1-3	CH57:1-3	CH57:1-3	CH59:1-3	CH59:1-3	CH59:1-3
C68:1-3T	CH41:1-3	CH54:1-3	CH58:1-3	CH58:1-3	CH60:1-3	CH60:1-3	CH60:1-3
C69:1-3T	CH42:1-3	CH55:1-3	CH59:1-3	CH59:1-3	CH61:1-3	CH61:1-3	CH61:1-3
C70:1-3T	CH43:1-3	CH56:1-3	CH60:1-3	CH60:1-3	CH62:1-3	CH62:1-3	CH62:1-3
C71:1-3T	CH44:1-3	CH57:1-3	CH61:1-3	CH61:1-3	CH63:1-3	CH63:1-3	CH63:1-3
C72T	CH45	CH58	CH62	CH62			
C73T	CH46	CH59	CH63	CH63			
C74T	CH47	CH60	CH64	CH64	CH64	CH64	CH64
	CH48:1-2	CH61:1-2	CH65:1-2	CH65:1-2			
C75:M1-2T	CH48A:M1-2	CH62:M1-2	CH66:M1-2	CH66:M1-2	CH66:MO1-2	CH66:MO1-2	CH66:MO1-2
C75:Y1-2T	CH48A:Y1-2	CH62:Y1-2	CH66:Y1-2	CH66:Y1-2	CH66:YR1-2	CH66:YR1-2	CH66:YR1-2
C76:A1-2T	CH49:A1-2	CH63:A1-2	CH67:A1-2	CH67:A1-2	CH67:A1-2	CH67:A1-2	CH67:A1-2
	CH49:B1-2	CH63:B1-2	CH67:B1-2	CH67:B1-2	CH67:B1-2	CH67:B1-2	CH67:B1-2
C76:B1-2T	CH49:C1-2	CH63:C1-2	CH67:C1-2	CH67:C1-2	CH67:C1-2	CH67:C1-2	CH67:C1-2
	CH49:D1-2	CH63:D1-2	CH67:D1-2	CH67:D1-2	CH67:D1-2	CH67:D1-2	CH67:D1-2
		CH64:1-2	CH68:1-2	CH68:1-2	CH68:1-2	CH68:1-2	CH68:1-2
		CH65:1-2	CH69:1-2	CH69:1-2	CH69:1-2	CH69:1-2	CH69:1-2
C77:1-2T	CH50:1-2	CH66:1-2	CH70:1-2	CH70:1-2	CH70:1-2	CH70:1-2	CH70:1-2
C78:1-2T	CH51:1-2	CH67:1-2	CH71:1-2	CH71:1-2	CH71:1-2	CH71:1-2	CH71:1-2
	CH52:A-H		CH72A-H	CH72A-H	CH72	CH72	CH72
	CH52A		CH73	CH73	CH73	CH73	CH73
			CH74	CH74	CH75	CH75	CH75
			CH75	CH75	CH75:A	CH75:A	CH75:A
			CH75Z:1-2	CH75Z:1-2	CH76:A-B	CH76:A-B	CH76:A-B
C79T	CH53	CH68	CH76	CH76	CH77	CH77	CH77
C80T	CH54:A	CH69:A	CH77:A	CH77:A	CH78:A	CH78:A	CH78:A
	CH54:B	CH69:B	CH77:B	CH77:B	CH78:B	CH78:B	CH78:B
	CH55	CH70	CH78	CH78	CH79	CH79	CH79
C81T	CH56:A	CH71:A	CH79:A	CH79:A	CH80:A	CH80:A	CH80:A
	CH56:B	CH71:B	CH79:B	CH79:B	CH80:B	CH80:B	CH80:B
C82T	CH57	CH72	CH80	CH80			
C83T	CH57A	CH73	CH81	CH81	CH81	CH81	CH81
C94:1T	CH67:1	CH74:1	CH82:1	CH82:1	CH82:1	CH82:1	CH82:1
C97A:A1T	CH69:A1	CH76:A1	CH83:A1	CH83:A1	CH83:A1	CH83:A1	CH83:A1
C97A:B1T	CH69:B1	CH76:B1	CH83:B1	CH83:B1	CH83:B1	CH83:B1	CH83:B1
C97A:C1T	CH69:C1	CH76:C1	CH83:C1	CH83:C1	CH83:C1	CH83:C1	CH83:C1
C97A:D1T	CH69:D1	CH76:D1	CH83:D1	CH83:D1	CH83:D1	CH83:D1	CH83:D1
C97:A1T	CH68:A1	CH75:A1	CH84:A1	CH84:A1	CH84:A1	CH84:A1	CH84:A1
C97:B1T	CH68:B1	CH75:B1	CH84:B1	CH84:B1	CH84:B1	CH84:B1	CH84:B1
C97:C1T	CH68:C1	CH75:C1	CH84:C1	CH84:C1	CH84:C1	CH84:C1	CH84:C1
	CH68:D1	CH75:D1	CH84:D1	CH84:D1	CH84:D1	CH84:D1	CH84:D1
	CH68:E1	CH75:E1	CH84:E1	CH84:E1	CH84:E1	CH84:E1	CH84:E1
C94:2T	CH67:2	CH74:2	CH82:2	CH82:2	CH82:2	CH82:2	CH82:2
C97A:A2T	CH69:A2	CH76:A2	CH83:A2	CH83:A2	CH83:A2	CH83:A2	CH83:A2
C97A:B2T	CH69:B2	CH76:B2	CH83:B2	CH83:B2	CH83:B2	CH83:B2	CH83:B2
C97A:C2T	CH69:C2	CH76:C2	CH83:C2	CH83:C2	CH83:C2	CH83:C2	CH83:C2
C97A:D2T	CH69:D2	CH76:D2	CH83:D2	CH83:D2	CH83:D2	CH83:D2	CH83:D2
C97:A2T	CH68:A2	CH75:A2	CH84:A2	CH84:A2	CH84:A2	CH84:A2	CH84:A2
C97:B2T	CH68:B2	CH75:B2	CH84:B2	CH84:B2	CH84:B2	CH84:B2	CH84:B2
C97:C2T	CH68:C2	CH75:C2	CH84:C2	CH84:C2	CH84:C2	CH84:C2	CH84:C2
	CH68:D2	CH75:D2	CH84:D2	CH84:D2	CH84:D2	CH84:D2	CH84:D2
	CH68:E2	CH75:E2	CH84:E2	CH84:E2	CH84:E2	CH84:E2	CH84:E2
C97:A3T							
C97:B3T							
C97:C3T							
C94:4T	CH67:3	CH74:3	CH82:3	CH82:3	CH82:3	CH82:3	CH82:3
C97:A4T	CH68:A3	CH75:A3	CH84:A3	CH84:A3	CH84:A3	CH84:A3	CH84:A3
C97:B4T	CH68:B3	CH75:B3	CH84:B3	CH84:B3	CH84:B3	CH84:B3	CH84:B3
C97:C4T	CH68:C3	CH75:C3	CH84:C3	CH84:C3	CH84:C3	CH84:C3	CH84:C3
	CH68:D3	CH75:D3	CH84:D3	CH84:D3	CH84:D3	CH84:D3	CH84:D3
	CH68:E3	CH75:E3	CH84:E3	CH84:E3	CH84:E3	CH84:E3	CH84:E3
	CH67:4A	CH74:4A	CH82:OF	CH82:OF			

TH11	TH21	TH12	TH22	TH13	TH23	TH14	TH24
C94:5T	CH67:4B	CH74:4B	CH82:4	CH82:4	CH82:4	CH82:4	CH82:4
C97A:A5T	CH69:A4	CH76:A4	CH83:A4	CH83:A4	CH83:A4	CH83:A4	CH83:A4
C97A:B5T	CH69:B4	CH76:B4	CH83:B4	CH83:B4	CH83:B4	CH83:B4	CH83:B4
C97A:C5T	CH69:C4	CH76:C4	CH83:C4	CH83:C4	CH83:C4	CH83:C4	CH83:C4
C97A:D5T	CH69:D4	CH76:D4	CH83:D4	CH83:D4	CH83:D4	CH83:D4	CH83:D4
C97:A5T	CH68:A4	CH75:A4	CH84:A4	CH84:A4	CH84:A4	CH84:A4	CH84:A4
C97:B5T	CH68:B4	CH75:B4	CH84:B4	CH84:B4	CH84:B4	CH84:B4	CH84:B4
C97:C5T	CH68:C4	CH75:C4	CH84:C4	CH84:C4	CH84:C4	CH84:C4	CH84:C4
	CH68:D4	CH75:D4	CH84:D4	CH84:D4	CH84:D4	CH84:D4	CH84:D4
	CH68:E4	CH75:E4	CH84:E4	CH84:E4	CH84:E4	CH84:E4	CH84:E4
C94:6T	CH67:5	CH74:5	CH82:5	CH82:5	CH82:6	CH82:6	CH82:6
C97:A6T	CH68:A5	CH75:A5	CH84:A5	CH84:A5	CH84:A6	CH84:A6	CH84:A6
C97:B6T	CH68:B5	CH75:B5	CH84:B5	CH84:B5	CH84:B6	CH84:B6	CH84:B6
C97:C6T	CH68:C5	CH75:C5	CH84:C5	CH84:C5	CH84:C6	CH84:C6	CH84:C6
	CH68:D5	CH75:D5	CH84:D5	CH84:D5	CH84:D6	CH84:D6	CH84:D6
	CH68:E5	CH75:E5	CH84:E5	CH84:E5	CH84:E6	CH84:E6	CH84:E6
	CH68:F5	CH75:F5	CH84:F5	CH84:F5	CH84:F6	CH84:F6	CH84:F6
C94:7T	CH67:6	CH74:6	CH82:6	CH82:6	CH82:5	CH82:5	CH82:5
C97:A7T	CH68:A6	CH75:A6	CH84:A6	CH84:A6	CH84:A5	CH84:A5	CH84:A5
	CH68:D6	CH75:D6	CH84:D6	CH84:D6	CH84:D5	CH84:D5	CH84:D5
	CH68:E6	CH75:E6	CH84:E6	CH84:E6	CH84:E5	CH84:E5	CH84:E5
	CH68:F6	CH75:F6	CH84:F6	CH84:F6	CH84:F5	CH84:F5	CH84:F5
C97:A8T							
C97:B8T							
C97:C8T							
C94:9T	CH67:7	CH74:7	CH82:7	CH82:7	CH82:7	CH82:7	CH82:7
C97:A9T	CH68:A7	CH75:A7	CH84:A7	CH84:A7	CH84:A7	CH84:A7	CH84:A7
	CH68:D7	CH75:D7	CH84:D7	CH84:D7	CH84:D7	CH84:D7	CH84:D7
	CH68:E7	CH75:E7	CH84:E7	CH84:E7	CH84:E7	CH84:E7	CH84:E7
	CH68:F7	CH75:F7	CH84:F7	CH84:F7	CH84:F7	CH84:F7	CH84:F7
	CH69A:A1-5	CH77:A1-5	CH85:A1-5	CH85:A1-5	CH85:A1-2	CH85:A1-2	CH85:A1-2
	CH69A:B1-5	CH77:B1-5	CH85:B1-5	CH85:B1-5	CH85:B1-2	CH85:B1-2	CH85:B1-2
	CH69A:C1-5	CH77:C1-5	CH85:C1-5	CH85:C1-5	CH85:C1-2	CH85:C1-2	CH85:C1-2
	CH69A:D1-5	CH77:D1-5	CH85:D1-5	CH85:D1-5	CH85:D1-2	CH85:D1-2	CH85:D1-2
	CH69A:E1-5	CH77:E1-5	CH85:E1-5	CH85:E1-5	CH85:E1-2	CH85:E1-2	CH85:E1-2
	CH69A:F1-5	CH77:F1-5	CH85:F1-5	CH85:F1-5	CH85:F1-2	CH85:F1-2	CH85:F1-2
	CH69A:G1-5	CH77:G1-5	CH85:G1-5	CH85:G1-5	CH85:G1-2	CH85:G1-2	CH85:G1-2
	CH69B:A1-5	CH78:A1-5	CH86:A1-5	CH86:A1-5	CH86:A1-2	CH86:A1-2	CH86:A1-2
	CH69B:B1-5	CH78:B1-5	CH86:B1-5	CH86:B1-5	CH86:B1-2	CH86:B1-2	CH86:B1-2
	CH69B:C1-5	CH78:C1-5	CH86:C1-5	CH86:C1-5	CH86:C1-2	CH86:C1-2	CH86:C1-2
	CH69B:D1-5	CH78:D1-5	CH86:D1-5	CH86:D1-5	CH86:D1-2	CH86:D1-2	CH86:D1-2
C98:AT	CH70:A	CH79:A					
C98:BT	CH70:B	CH79:B					
C98:CT	CH70:C	CH79:C					
C98:DT	CH70:D	CH79:D					
	CH70:E	CH79:E					
C98:ET	CH70:F	CH79:F					
C98:FT	CH70:G	CH79:G					
C98:GT	CH70:H	CH79:H					
		CH79:I					
		CH79:J					
C98:HT	CH70:I	CH79:K					
C98:IT	CH70:J	CH79:L					
C98:JT	CH70:K						
C99:AT	CH71:A						
C99:BT	CH71:B	CH79:G					
C99:CT	CH71:C	CH79:M					
C99:DT	CH71:D	CH79:N					
C99:ET	CH71:E	CH79:O					
C99:FT	CH71:F	CH79:P					
C99:GT	CH71:G	CH79:Q					
C100T							
C101AT	CH71A	CH80	CH88	CH88	CH88	CH88	CH88
C102:1-14T	CH72:1-14	CH81:1-12	CH89:1-12	CH89:1-12	CH89:1-12	CH89:1-12	CH89:1-12
	CH73:1-14	CH82:1-12	CH90:1-12	CH90:1-12	CH90:1-12	CH90:1-12	CH90:1-12
	CH74A:2-14	CH83:2-12	CH90A:2-12	CH90A:2-12	CH90A:2-12	CH90A:2-12	CH90A:2-12
	CH74B:2-14	CH84:2-12	CH90B:2-12	CH90B:2-12	CH90B:2-12	CH90B:2-12	CH90B:2-12
	CH74C:1-14		CH90C:1-12	CH90C:1-12	CH90C:1-12	CH90C:1-12	CH90C:1-12
	CH74D:1-14		CH90D:1-12	CH90D:1-12	CH90D:1-12	CH90D:1-12	CH90D:1-12
C103:1-14T	CH74E:1-14	CH85:1-12	CH91:1-12	CH91:1-12	CH91:1-12	CH91:1-12	CH91:1-12

TH11	TH21	TH12	TH22	TH13	TH23	TH14	TH24
C104:1-14T	CH75:1-14	CH86:1-12	CH92:1-12 CH93:1-12 CH94:1-12 CH95:1-12 CH96:1-12 CH97:A1-12 CH97:B1-12 CH97:C1-12 CH97:D1-12 CH97:E1-12 CH97:F1-12 CH97:G1-12 CH97:H1-12 CH97:I1-12	CH92:1-12 CH93:1-12 CH94:1-12 CH95:1-12 CH96:1-12 CH97:A1-12 CH97:B1-12 CH97:C1-12 CH97:D1-12 CH97:E1-12 CH97:F1-12 CH97:G1-12 CH97:H1-12 CH97:I1-12	CH92:1-12 CH93:1-12 CH94:1-12 CH95:1-12 CH96:A1-12 CH96:B1-12 CH96:C1-12 CH96:D1-12 CH96:E1-12 CH96:F1-12 CH96:G1-12 CH96:H1-12 CH96:I1-12	CH92:1-12 CH93:1-12 CH94:1-12 CH95:1-12 CH96:A1-12 CH96:B1-12 CH96:C1-12 CH96:D1-12 CH96:E1-12 CH96:F1-12 CH96:G1-12 CH96:H1-12 CH96:I1-12	CH92:1-12 CH93:1-12 CH94:1-12 CH95:1-12 CH96:A1-12 CH96:B1-12 CH96:C1-12 CH96:D1-12 CH96:E1-12 CH96:F1-12 CH96:G1-12 CH96:H1-12 CH96:I1-12
C105:1-14T							
C105A1-14T	CH76:1-14	CH87:1-12	CH98:1-12	CH98:1-12	CH97:1-12	CH97:1-12	CH97:1-12
C106T							
C112T	CH77	CH88	CH99	CH99			
C113T	CH78	CH89	CH100	CH100			
C114T	CH79	CH90	CH101	CH101	CH98	CH98	CH98
C115:A-NT	CH80:A-N	CH91:A-N	CH102:A-N	CH102:A-N	CH99:A-N	CH99:A-N	CH99:A-N
C116:AT	CH81:A	CH92:A	CH103:A	CH103:A			
C116:BT	CH81:B	CH92:B	CH103:B	CH103:B			
C116:CT	CH81:C	CH92:C	CH103:C	CH103:C			
	CH81:D	CH92:D	CH103:D	CH103:D			
C117T	CH82	CH93	CH104	CH104			
			CH105	CH105	CH100	CH100	CH100
			CH106	CH106	CH74	CH74	CH74
C84T	CH58	CH94	CH107	CH107	CH101	CH101	CH101
C85T	CH58A	CH95	CH108	CH108	CH102	CH102	CH102
C86:A1-3T	CH59:A1-3	{ CH96:A1-2 CH101:A }	CH109:A1-3	CH109:A1-3	CH103:A1-3	CH103:A1-3	CH103:A1-3
C86:B1-3T	CH59:B1-3	{ CH96:B1-2 CH101:B }	CH109:B1-3	CH109:B1-3	CH103:B1-3	CH103:B1-3	CH103:B1-3
C86:C1-3T	CH59:C1-3	{ CH96:C1-2 CH101:C }	CH109:C1-3	CH109:C1-3	CH103:C1-3	CH103:C1-3	CH103:C1-3
C86:D1-3T	CH59:D1-3	{ CH96:D1-2 CH101:D }	CH109:D1-3	CH109:D1-3	CH103:D1-3	CH103:D1-3	CH103:D1-3
C86:E1-3T	CH59:E1-3	{ CH96:E1-2 CH101:E }	CH109:E1-3	CH109:E1-3	CH103:E1-3	CH103:E1-3	CH103:E1-3
C86:F1-3T	CH59:F1-3	{ CH96:F1-2 CH101:F }	CH109:F1-3	CH109:F1-3	CH103:F1-3	CH103:F1-3	CH103:F1-3
C86:G1-3T	CH59:G1-3	{ CH96:G1-2 CH101:G }	CH109:G1-3	CH109:G1-3	CH103:G1-3	CH103:G1-3	CH103:G1-3
	CH59:H1-3	{ CH96:H1-2 CH101:H }					
C87:1-3T	CH60:A1-3	{ CH97:1-2 CH102 }	CH110:1-3	CH110:1-3	CH104:1-3	CH104:1-3	CH104:1-3
	CH60:B1-3						
C88:1-3T	CH61:1-3	{ CH98:1-2 CH103 }	CH111:1-3	CH111:1-3	CH105:1-3	CH105:1-3	CH105:1-3
	CH61A:1-3						
	CH61B:1-3						
	CH61C:1-3						
C89:1-3T	CH62:1-3	{ CH99:1-2 CH104 }	CH112:1-3	CH112:1-3	CH106:1-3	CH106:1-3	CH106:1-3
		CH105	CH113	CH113	CH107	CH107	CH107
		CH106	CH114	CH114	CH108	CH108	CH108
		CH107	CH115	CH115			
		CH108:A-C	CH116:A-C	CH116:A-C			
		CH100					
	CH63						
	CH63A						
C90T	CH63B	CH109					
C91:1T }	CH64						
C91:2T }							
C92T	CH65						
C93:AT	CH66:A						
C93:BT	CH66:B						
C93:CT	CH66:C						

TH11	TH21	TH12	TH22	TH13	TH23	TH14	TH24
C21:C1-3M	CM21:C1-3	CM17:C1-3	CM17:C1-3	CM17:C1-3	CM17:C1-3	CM17:C1-3	CM17:C1-3
C22:2-3M	CM22:2-3	CM18:2-3	CM18:2-3	CM18:2-3	CM18:2-3	CM18:2-3	CM18:2-3
C23:1M	CM23	CM19	CM19	CM19	CM19	CM19	CM19
	CM23A:1,3	CM20:1,3	CM19A:1-3	CM19X:1-3	CM20:1-3	CM20:1-3	CM20:1-3
C25:1-3M	CM25:1-3	CM21:1-3	CM20:1,3	CM20:1,3	CM21:1,3	CM21:1,3	CM21:1,3
C24:M1-3M	CM24:1-3M	CM22:1-3	CM21:1-3	CM21:1-3	CM22:1-3	CM22:1-3	CM22:1-3
C24:Y1-3M	CM24:1-3Y		CM22:1-3	CM22:1-3	CM23:1-3	CM23:1-3	CM23:1-3
C26:1-3M	CM26:1-3	CM23:1-3	CM23:1-3	CM23:1-3	CM24:1-3	CM24:1-3	CM24:1-3
C27:1-3M	CM27:1-3	CM24:1-3	CM24:1-3	CM24:1-3	CM25:1-3	CM25:1-3	CM25:1-3
		CM25:1-3	CM25:1-3	CM25:1-3	CM26:1-3	CM26:1-3	CM26:1-3
		CM26:1-3	CM26:1-3	CM26:1-3	CM27:1-3	CM27:1-3	CM27:1-3
		CM27:1-3	CM27:1-3	CM27:1-3	CM28:1-3	CM28:1-3	CM28:1-3
		CM28:1-3	CM28:1-3	CM28:1-3	CM29:1-3	CM29:1-3	CM29:1-3
	CM28	CM28A:1	CM28A:1	CM28A:1	CM30:1	CM30:1	CM30:1
C28M							
C29:AM	CM29:A	CM29:A	CM29:A	CM29:A	CM31:A	CM31:A	CM31:A
C29:BM	CM29:B	CM29:B	CM29:B	CM29:B	CM31:B	CM31:B	CM31:B
C29:CM	CM29:C	CM29:C	CM29:C	CM29:C			
C29:DM	CM29:D	CM29:D	CM29:D	CM29:D	CM31:C	CM31:C	CM31:C
C30M	CM30	CM30	CM30	CM30	CM32	CM32	CM32
C31M	CM31	CM31	CM31	CM31	CM33	CM33	CM33
C32M	CM32	CM32	CM32	CM32			
C33M	CM33	CM33	CM33	CM33	CM34	CM34	CM34
C34:M1-3M	CM34:1-3M	CM34:M1-3	CM34:M1-3	CM34:M1-3	CM35M:1-3	CM35M:1-3	CM35M:1-3
C34:Y1-3M	CM34:1-3Y	CM34:Y1-3	CM34:Y1-3	CM34:Y1-3	CM35Y:1-3	CM35Y:1-3	CM35Y:1-3
C35:A1-3M	CM35:A1-3	CM35:A1-3	CM35:A1-3	CM35:A1-3	CM36A:1-3	CM36A:1-3	CM36A:1-3
C35:B1-3M	CM35:B1-3	CM35:B1-3	CM35:B1-3	CM35:B1-3	CM36B:1-3	CM36B:1-3	CM36B:1-3
C35:C1-3M	CM35:C1-3	CM35:C1-3	CM35:C1-3	CM35:C1-3	CM36C:1-3	CM36C:1-3	CM36C:1-3
C35:D1-3M	CM35:D1-3	CM35:D1-3	CM35:D1-3	CM35:D1-3	CM36D:1-3	CM36D:1-3	CM36D:1-3
	CM35:J1-3						
	CM35:E1-3	CM35:E1-3	CM35:E1-3	CM35:E1-3	CM36E:1-3	CM36E:1-3	CM36E:1-3
C35:E1-3M	CM35:F1-3	CM35:F1-3	CM35:F1-3	CM35:F1-3	CM36F:1-3	CM36F:1-3	CM36F:1-3
C35:F1-3M	CM35:G1-3	CM35:G1-3	CM35:G1-3	CM35:G1-3	CM36G:1-3	CM36G:1-3	CM36G:1-3
C35:G1-3M	CM35:H1-3	CM35:H1-3	CM35:H1-3	CM35:H1-3	CM36H:1-3	CM36H:1-3	CM36H:1-3
C35:H1-3M	CM35:I1-3	CM35:I1-3	CM35:I1-3	CM35:I1-3	CM36I:1-3	CM36I:1-3	CM36I:1-3
	CM35:K1-3						
C36:1-3M	CM36:1-3	CM36:1-3	CM36:1-3	CM36:1-3	CM37:1-3	CM37:1-3	CM37:1-3
C37:1-3M	CM37:1-3	CM37:1-3	CM37:1-3	CM37:1-3	CM38:1-3	CM38:1-3	CM38:1-3
C38:1-3M	CM38:1-3	CM38:1-3	CM38:1-3	CM38:1-3	CM39:1-3	CM39:1-3	CM39:1-3
C39:2-3M	CM39:2-3	CM39:2-3	CM39:2-3	CM39:2-3	CM40:2-3	CM40:2-3	CM40:2-3
C40:2-3M	CM40:2-3	CM40:2-3	CM40:2-3	CM40:2-3	CM41:2-3	CM41:2-3	CM41:2-3
					CM42	CM42	CM42
C41:1-3M	CM41:1-3	CM41:1-3					
		CM42:1-3					
C42:1-3M	CM42:1-3	CM42A:1-3					
C43:1-3M	CM43:1-3	CM43:1-3					
C43:A1-3M	CM43A:1-3	CM43A:1-3					
		CM44:1-3					
		CM44A:1-3					
		CM44B:1-3					
		CM44C:1-3					
C44M	CM44	CM45	CM41	CM41	CM43	CM43	CM43
C45M	CM45	CM45A	CM42	CM42	CM44	CM44	CM44
C46M	CM46	CM46	CM43	CM43	CM45	CM45	CM45
C47M	CM47	CM47	CM44	CM44	CM46	CM46	CM46
C48:MM	CM48M	CM48:M	CM45:M	CM45:M	CM47:M	CM47:M	CM47:M
C48:YM	CM48Y	CM48:Y	CM45:Y	CM45:Y	CM47:YR	CM47:YR	CM47:YR
			CM46	CM46	CM49	CM49	CM49
C49M	CM49	CM49:A	CM47	CM47	CM48	CM48	CM48
C50M	CM50	CM50	CM48	CM48	CM50	CM50	CM50
C51M	CM51	CM51	CM49	CM49	CM51	CM51	CM51
C52M	CM52	CM52	CM50	CM50	CM52	CM52	CM52
	CM52A	CM52A	CM51	CM51	CM53	CM53	CM53
	CM52B	CM52B	CM52	CM52	CM54	CM54	CM54
			CM52A	CM52A	CM55	CM55	CM55
C53M	CM53	CM53	CM53	CM53	CM56	CM56	CM56
C54M	CM54	CM54	CM54	CM54	CM57	CM57	CM57
					CM58	CM58	CM58

TH11	TH21	TH12	TH22	TH13	TH23	TH14	TH24
					CM59	CM59	CM59
					CM60	CM60	CM60
					CM61	CM61	CM61
	CM55	CM55	CM55	CM55	CM62	CM62	CM62
C55M	CM55A	CM55A	CM56	CM56	CM63	CM63	CM63
C56M	CM56	CM56	CM57	CM57	CM64	CM64	CM64
C56AM							
	CM57						
	CM57A						
	CM57C:1-3	CM57:1-3	CM58:1-3	CM58:1-3			
C57:1-3M	CM57D:1-3	CM57A:1-3	CM59:1-3	CM59:1-3	CM66:1-3	CM66:1-3	CM66:1-3
C61:1-3M	CM58:1-3	CM58:1-3	CM60:1-3	CM60:1-3	CM67:1-3	CM67:1-3	CM67:1-3
C58:1-3M	CM59:1-3	CM59:1-3	CM61:1-3	CM61:1-3	CM68:1-3	CM68:1-3	CM68:1-3
C59:1-3M	CM60:1-3	CM60:1-3	CM62:1-3	CM62:1-3	CM69:1-3	CM69:1-3	CM69:1-3
C60:M1-3M	CM61:1-3M	CM61:M1-3	CM63:M1-3	CM63:M1-3	CM70M:1-3	CM70M:1-3	CM70M:1-3
C60:Y1-3M	CM61:1-3Y	CM61:Y1-3	CM63:Y1-3	CM63:Y1-3	CM70Y:1-3	CM70Y:1-3	CM70Y:1-3
C62:1-3M	CM62:1-3	CM62:1-3	CM64:1-3	CM64:1-3	CM71:1-3	CM71:1-3	CM71:1-3
C63:1-3M	CM63:1-3	CM63:1-3	CM65:1-3	CM65:1-3	CM72:1-3	CM72:1-3 C	M72:1-3
C64:M1-3M	CM64:1-3M	CM64:M1-3	CM66:M1-3	CM66:M1-3	CM73M:1-3	CM73M:1-3	CM73M:1-3
C64:Y1-3M	CM64:1-3Y	CM64:Y1-3	CM66:Y1-3	CM66:Y1-3	CM73Y:1-3	CM73Y:1-3	CM73Y:1-3
C65:1-3M	CM65:1-3	CM65:1-3	CM67:1-3	CM67:1-3	CM74:1-3	CM74:1-3	CM74:1-3
C66:1-3M	CM66:1-3	CM66:1-3	CM68:1-3	CM68:1-3	CM75:1-3	CM75:1-3	CM75:1-3
C67:M1-3M	CM67:1-3M	CM67:M1-3	CM69:M1-3	CM69:M1-3	CM76M:1-3	CM76M:1-3	CM76M:1-3
C67:Y1-3M	CM67:1-3Y	CM67:Y1-3	CM69:Y1-3	CM69:Y1-3	CM76Y:1-3	CM76Y:1-3	CM76Y:1-3
C68:A1-3M	CM68:1-3A	CM68:A1-3	CM70:A1-3	CM70:A1-3	CM77A:1-3	CM77A:1-3	CM77A:1-3
C68:B1-3M	CM68:1-3B	CM68:B1-3	CM70:B1-3	CM70:B1-3	CM77B:1-3	CM77B:1-3	CM77B:1-3
C69:1-3M	CM69:1-3	CM69:1-3	CM71:1-3	CM71:1-3	CM78:1-3	CM78:1-3	CM78:1-3
	CM69A:1-3	CM69A:1-3	CM72:1-3	CM72:1-3	CM79:1-3	CM79:1-3	CM79:1-3
	CM69B:1-3M	CM69B:M1-3					
	CM69B:1-3Y	CM69B:Y1-3					
	CM69C:1-3	CM69C:1-3	CM73:1-3	CM73:1-3	CM80:1-3	CM80:1-3	CM80:1-3
C70:A1-3M	CM70:1-3A	CM70A:1-3	CM74A:1-3	CM74A:1-3	CM81A:1-3	CM81A:1-3	CM81A:1-3
	CM70:1-3B	CM70B:1-3	CM74B:1-3	CM74B:1-3	CM81B:1-3	CM81B:1-3	CM81B:1-3
C70:B1-3M	CM70:1-3C	CM70C:1-3	CM74C:1-3	CM74C:1-3	CM81C:1-3	CM81C:1-3	CM81C:1-3
	CM70:1-3D	CM70D:1-3	CM74D:1-3	CM74D:1-3	CM81D:1-3	CM81D:1-3	CM81D:1-3
C71:A1-3M	CM71:A1-3	CM71A:1-3	CM75A:1-3	CM75A:1-3	CM82A:1-3	CM82A:1-3	CM82A:1-3
C71:B1-3M	CM71:B1-3	CM71B:1-3	CM75B:1-3	CM75B:1-3			
	CM71:C1-3	CM71C:1-3	CM75C:1-3	CM75C:1-3			
	CM71:D1-3	CM71D:1-3	CM75D:1-3	CM75D:1-3			
	CM71:E1-3	CM71E:1-3	CM75E:1-3	CM75E:1-3			
C71:M1-3M	CM71:F1-3	CM71F:M1-3	CM75F:M1-3	CM75F:M1-3	CM82B:M1-3	CM82B:M1-3	CM82B:M1-3
C71:D1-3M	CM71:G1-3	CM71F:D1-3	CM75F:D1-3	CM75F:D1-3	CM82B:D1-3	CM82B:D1-3	CM82B:D1-3
C71:Y1-3M	CM71:H1-3	CM71F:Y1-3	CM75F:Y1-3	CM75F:Y1-3	CM82B:Y1-3	CM82B:Y1-3	CM82B:Y1-3
C73:A1-3M	CM72:1-3A	CM72:A1-3	CM76:A1-3	CM76:A1-3	CM83A:1-3	CM83A:1-3	CM83A:1-3
C73:B1-3M	CM72:1-3B	CM72:B1-3	CM76:B1-3	CM76:B1-3	CM83B:1-3	CM83B:1-3	CM83B:1-3
C72:1-3M	CM73:1-3	CM73:1-3	CM77:1-3	CM77:1-3	CM84:1-3	CM84:1-3	CM84:1-3
C74:1-3M	CM74:1-3	CM74:1-3	CM78:1-3	CM78:1-3	CM85:1-3	CM85:1-3	CM85:1-3
C75:1-3M	CM75:1-3	CM75:1-3	CM79:1-3	CM79:1-3	CM86:1-3	CM86:1-3	CM86:1-3
C76:1-3M	CM76:1-3	CM76:1-3	CM80:1-3	CM80:1-3	CM87:1-3	CM87:1-3	CM87:1-3
C77:1-3M	CM77:1-3	CM77:1-3	CM81:1-3	CM81:1-3	CM88:1-3	CM88:1-3	CM88:1-3
C78M	CM78	CM78	CM82	CM82			
C79M	CM79	CM79	CM83	CM83			
C80M	CM80	CM80	CM84	CM84	CM89	CM89	CM89
	CM81:1-2	CM81:1-2	CM85:1-2	CM85:1-2			
C81:1-2M	CM81A:1-2	CM81A:1-2	CM86:1-2	CM86:1-2	CM91:1-2	CM91:1-2 C	M91:1-2
C82:M1-2M	CM82:1-2M	CM82:M1-2	CM87:M1-2	CM87:M1-2	CM92M:1-2	CM92M:1-2	CM92M:1-2
C82:Y1-2M	CM82:1-2Y	CM82:Y1-2	CM87:Y1-2	CM87:Y1-2	CM92Y:1-2	CM92Y:1-2	CM92Y:1-2
C83:A1-2M	CM83:1-2A	CM83A:1-2	CM88A:1-2	CM88A:1-2	CM93A:1-2	CM93A:1-2	CM93A:1-2
	CM83:1-2B	CM83B:1-2	CM88B:1-2	CM88B:1-2	CM93B:1-2	CM93B:1-2	CM93B:1-2
C83:B1-2M	CM83:1-2C	CM83C:1-2	CM88C:1-2	CM88C:1-2	CM93C:1-2	CM93C:1-2	CM93C:1-2
	CM83:1-2D	CM83D:1-2	CM88D:1-2	CM88D:1-2	CM93D:1-2	CM93D:1-2	CM93D:1-2
	CM84:1-2	CM84:1-2	CM89:1-2	CM89:1-2	CM94:1-2	CM94:1-2	CM94:1-2
	CM84A:1-2	CM84A:1-2	CM90:1-2	CM90:1-2	CM95:1-2	CM95:1-2	CM95:1-2
C84:1-2M	CM84B:1-2	CM84B:1-2	CM91:1-2	CM91:1-2	CM96:1-2	CM96:1-2	CM96:1-2
C85:1-2M	CM85:1-2	CM85:1-2	CM92:1-2	CM92:1-2	CM97:1-2	CM97:1-2	CM97:1-2
C86M	CM86A	CM86	CM93	CM93	CM98	CM98	CM98
C87:2-3M	CM87:2-3	{ CM87:A2-3 CM87:B2-3 }	CM94:2-3	CM94:2-3	CM99:2-3	CM99:2-3	CM99:2-3
C88:1-3M	CM88:1-3A	CM88:A1-3	CM95:A1-3	CM95:A1-3	CM100A:1-3	CM100A:1-3	CM100A:1-3

TH11	TH21	TH12	TH22	TH13	TH23	TH14	TH24
	CM88:1-3B	CM88:B1-3	CM95:B1-3	CM95:B1-3	CM100B:1-3	CM100B:1-3	CM100B:1-3
	CM88:1-3C	CM88:C1-3					
C89:1-3M	CM89:1-3	CM89:1-3	CM96:1-3	CM96:1-3	CM101:1-3	CM101:1-3	CM101:1-3
C90:1-2M	CM90:1-2	CM90:A1-2	CM97:1-2	CM97:1-2	CM102:1-2	CM102:1-2	CM102:1-2
		CM90:B1-3					
C90:A3M	CM90:3A	CM90:A3	CM97:3	CM97:3	CM102A:3	CM102A:3	CM102A:3
C90:B3M		CM90:B3					
	CM90:3B	CM90:C3	C97:C3	CM97:C3	CM102C:3	CM102C:3	CM102C:3
	CM91:A1-3	CM91:A1-3	CM98:A1-3	CM98:A1-3	CM103A:1-3	CM103A:1-3	CM103A:1-3
	CM91:B1-3		CM98S:B1-3	CM98S:B1-3	CM103BA1-3	CM103BA1-3	CM103BA1-3
	CM91:D1-3	CM91:B1-3	CM98R:B1-3	CM98R:B1-3	CM103BB1-3	CM103BB1-3	CM103BB1-3
	CM91:E1-3		CM98O:B1-3	CM98O:B1-3	CM103BC1-3	CM103BC1-3	CM103BC1-3
	CM91:C1-3	CM91:C1-3	CM98:C1-3	CM98:C1-3	CM103C:1-3	CM103C:1-3	CM103C:1-3
C91:1-2M	CM91A:1-2	CM92:1-2	CM99:1-2	CM99:1-2	CM104:1-2	CM104:1-2	CM104:1-2
C91:A3M	CM91A:3A	CM92:A3	CM99:A3	CM99:A3	CM104A:3	CM104A:3	CM104A:3
C91:B3M	CM91A:3B	CM92:B3	CM99:B3	CM99:B3	CM104B:3	CM104B:3	CM104B:3
	CM91A:3C	CM92:C3	CM99:C3	CM99:C3	CM104C:3	CM104C:3	CM104C:3
C92:1-2M	CM92:1-2	CM92A:1-2	CM100:1-2	CM100:1-2			
C92:A3M	CM92:3A	CM92A:A3	CM100:A3	CM100:A3			
C92:B3M	CM92:3B	CM92A:B3	CM100:B3	CM100:B3			
	CM92:3C	CM92A:C3	CM100:C3	CM100:C3			
C93:1-2M	CM93:1-2	CM93:1-2	CM101:1-2	CM101:1-2	CM105:1-2	CM105:1-2	CM105:1-2
C93:A3M	CM93:3A	CM93:A3	CM101:A3	CM101:A3	CM105A:3	CM105A:3	CM105A:3
C93:B3M	CM93:3B	CM93:B3	CM101:B3	CM101:B3	CM105B:3	CM105B:3	CM105B:3
			CM101X	CM101X	CM105A	CM105A	CM105A
C104:1M	CM104:1	CM94:1	CM102:1	CM102:1	CM106:1	CM106:1	CM106:1
C109:A1M	CM109:1A	CM99:A1	CM103:A1	CM103:A1	CM107A:1	CM107A:1	CM107A:1
C109:B1M	CM109:1B	CM99:B1	CM103:B1	CM103:B1	CM107B:1	CM107B:1	CM107B:1
C109:C1M	CM109:1C	CM99:C1	CM103:C1	CM103:C1	CM107C:1	CM107C:1	CM107C:1
C109:D1M	CM109:1D	CM99:D1	CM103:D1	CM103:D1	CM107D:1	CM107D:1	CM107D:1
C106AB1M	CM106:1	CM96:1	CM104:1	CM104:1	CM108:1	CM108:1	CM108:1
C107:A1M	CM108:1A	CM98:A1	CM105:A1	CM105:A1	CM109A:1	CM109A:1	CM109A:1
C107:B1M	CM108:1B	CM98:B1	CM105:B1	CM105:B1	CM109B:1	CM109B:1	CM109B:1
C107:C1M	CM108:1C	CM98:C1	CM105:C1	CM105:C1	CM109C:1	CM109C:1	CM109C:1
	CM108:1D	CM98:D1	CM105:D1	CM105:D1	CM109D:1	CM109D:1	CM109D:1
	CM108:1E	CM98:E1	CM105:E1	CM105:E1	CM109E:1	CM109E:1	CM109E:1
C108:1M							
C104:2M	CM104:2	CM94:2	CM102:2	CM102:2	CM106:2	CM106:2	CM106:2
C109:A2M	CM109:2A	CM99:A2	CM103:A2	CM103:A2	CM107A:2	CM107A:2	CM107A:2
C109:B2M	CM109:2B	CM99:B2	CM103:B2	CM103:B2	CM107B:2	CM107B:2	CM107B:2
C109:C2M	CM109:2C	CM99:C2	CM103:C2	CM103:C2	CM107C:2	CM107C:2	CM107C:2
C109:D2M	CM109:2D	CM99:D2	CM103:D2	CM103:D2	CM107D:2	CM107D:2	CM107D:2
C106AB2M	CM106:2	CM96:2	CM104:2	CM104:2	CM108:2	CM108:2	CM108:2
C107:A2M	CM108:2A	CM98:A2	CM105:A2	CM105:A2	CM109A:2	CM109A:2	CM109A:2
C107:B2M	CM108:2B	CM98:B2	CM105:B2	CM105:B2	CM109B:2	CM109B:2	CM109B:2
C107:C2M	CM108:2C	CM98:C2	CM105:C2	CM105:C2	CM109C:2	CM109C:2	CM109C:2
	CM108:2D	CM98:D2	CM105:D2	CM105:D2	CM109D:2	CM109D:2	CM109D:2
	CM108:2E	CM98:E2	CM105:E2	CM105:E2	CM109E:2	CM109E:2	CM109E:2
C108:2M							
C107:A3M							
C107:B3M							
C107:C3M							
C108:3M							
C104:4M	CM104:3	CM94:3	CM102:3	CM102:3	CM106:3	CM106:3	CM106:3
			CM103:A3	CM103:A3			
			CM103:B3	CM103:B3			
			CM103:C3	CM103:C3			
			CM103:D3	CM103:D3			
C106AB4M	CM106:3	CM96:3	CM104:3	CM104:3	CM108:3	CM108:3	CM108:3
C107:A4M	CM108:3A	CM98:A3	CM105:A3	CM105:A3	CM109A:3	CM109A:3	CM109A:3
C107:B4M	CM108:3B	CM98:B3	CM105:B3	CM105:B3	CM109B:3	CM109B:3	CM109B:3
C107:C4M	CM108:3C	CM98:C3	CM105:C3	CM105:C3	CM109C:3	CM109C:3	CM109C:3
	CM108:3D	CM98:D3	CM105:D3	CM105:D3	CM109D:3	CM109D:3	CM109D:3
	CM108:3E	CM98:E3	CM105:E3	CM105:E3	CM109E:3	CM109E:3	CM109E:3
C108:4M							
	CM104:4A	CM94:4A	CM102:OF	CM102:OF			
C104:5M	CM104:4B	CM94:4B	CM102:4	CM102:4	CM106:4	CM106:4	CM106:4
C109:A5M	CM109:4A	CM99:A4	CM103:A4	CM103:A4	CM107A:4	CM107A:4	CM107A:4
C109:B5M	CM109:4B	CM99:B4	CM103:B4	CM103:B4	CM107B:4	CM107B:4	CM107B:4

<u>TH11</u>	<u>TH21</u>	<u>TH12</u>	<u>TH22</u>	<u>TH13</u>	<u>TH23</u>	<u>TH14</u>	<u>TH24</u>
C109:C5M	CM109:4C	CM99:C4	CM103:C4	CM103:C4	CM107C:4	CM107C:4	CM107C:4
C109:D5M	CM109:4D	CM99:D4	CM103:D4	CM103:D4	CM107D:4	CM107D:4	CM107D:4
C106AB5M	CM106:4	CM96:4	CM104:4	CM104:4	CM108:4	CM108:4	CM108:4
C107:A5M	CM108:4A	CM98:A4	CM105:A4	CM105:A4	CM109A:4	CM109A:4	CM109A:4
C107:B5M	CM108:4B	CM98:B4	CM105:B4	CM105:B4	CM109B:4	CM109B:4	CM109B:4
C107:C5M	CM108:4C	CM98:C4	CM105:C4	CM105:C4	CM109C:4	CM109C:4	CM109C:4
	CM108:4D	CM98:D4	CM105:D4	CM105:D4	CM109D:4	CM109D:4	CM109D:4
	CM108:4E	CM98:E4	CM105:E4	CM105:E4	CM109E:4	CM109E:4	CM109E:4
C108:5M							
C104:6M	CM104:5	CM94:5	CM102:5	CM102:5	CM106:6	CM106:6	CM106:6
C106AB6M	CM106:5	CM96:5	CM104:5	CM104:5	CM108:6	CM108:6	CM108:6
C107:A6M	CM108:5A	CM98:5A	CM105:A5	CM105:A5	CM109A:6	CM109A:6	CM109A:6
C107:B6M	CM108:5B	CM98:5B	CM105:B5	CM105:B5	CM109B:6	CM109B:6	CM109B:6
C107:C6M	CM108:5C	CM98:5C	CM105:C5	CM105:C5	CM109C:6	CM109C:6	CM109C:6
	CM108:5D	CM98:5D	CM105:D5	CM105:D5	CM109D:6	CM109D:6	CM109D:6
	CM108:5E	CM98:5E	CM105:E5	CM105:E5	CM109E:6	CM109E:6	CM109E:6
	CM108:5F	CM98:5F	CM105:F5	CM105:F5	CM109F:6	CM109F:6	CM109F:6
C108:6M							
C104:7M	CM104:6	CM94:6	CM102:6	CM102:6	CM106:5	CM106:5	CM106:5
C106AB7M	CM106:6	CM96:6	CM104:6	CM104:6	CM108:5	CM108:5	CM108:5
C107:A7M*	CM108:6A	CM98:6A	CM105:A6	CM105:A6	CM109A:5	CM109A:5	CM109A:5
	CM108:6D	CM98:6D	CM105:D6	CM105:D6	CM109D:5	CM109D:5	CM109D:5
	CM108:6E	CM98:6E	CM105:E6	CM105:E6	CM109E:5	CM109E:5	CM109E:5
C107:A7M*	CM108:6F	CM98:6F	CM105:F6	CM105:F6	CM109F:5	CM109F:5	CM109F:5
C108:7M							
C107:A8M							
C107:B8M							
C107:C8M							
C108:8M							
C104:9M	CM104:7	CM94:7	CM102:7	CM102:7	CM106:7	CM106:7	CM106:7
C106AB9M	CM106:7	CM96:7	CM104:7	CM104:7	CM108:7	CM108:7	CM108:7
C107:A9M*	CM108:7A	CM98:7A	CM105:A7	CM105:A7	CM109A:7	CM109A:7	CM109A:7
	CM108:7D	CM98:7D	CM105:D7	CM105:D7	CM109D:7	CM109D:7	CM109D:7
	CM108:7E	CM98:7E	CM105:E7	CM105:E7	CM109E:7	CM109E:7	CM109E:7
C107:A9M*	CM108:7F	CM98:7F	CM105:F7	CM105:F7	CM109F:7	CM109F:7	CM109F:7
C108:9M							
	CM109AA1-5	CM99A:A1-5	CM106:A1-3	CM106:A1-3	CM110A:1-2	CM110A:1-2	CM110A:1-2
	CM109AB1-5	CM99A:B1-5	CM106:B1-3	CM106:B1-3	CM110B:1-2	CM110B:1-2	CM110B:1-2
	CM109AC1-5	CM99A:C1-5	CM106:C1-3	CM106:C1-3	CM110C:1-2	CM110C:1-2	CM110C:1-2
	CM109AD1-5	CM99A:D1-5	CM106:D1-3	CM106:D1-3	CM110D:1-2	CM110D:1-2	CM110D:1-2
	CM109AE1-5	CM99A:E1-5	CM106:E1-3	CM106:E1-3	CM110E:1-2	CM110E:1-2	CM110F:1-2
	CM109AF1-5	CM99A:F1-5	CM106:F1-3	CM106:F1-3	CM110F:1-2	CM110F:1-2	CM110E:1-2
	CM109AG1-5	CM99A:G1-5	CM106:G1-3	CM106:G1-3	CM110G:1-2	CM110G:1-2	CM110G:1-2
	CM109BA1-5	CM99B:A1-5	CM107:A1-3	CM107:A1-3	CM111A:1-2	CM111A:1-2	CM111A:1-2
	CM109BB1-5	CM99B:B1-5	CM107:B1-3	CM107:B1-3	CM111B:1-2	CM111B:1-2	CM111B:1-2
	CM109BC1-5	CM99B:C1-5	CM107:C1-3	CM107:C1-3	CM111C:1-2	CM111C:1-2	CM111C:1-2
	CM109BD1-5	CM99B:D1-5	CM107:D1-3	CM107:D1-3	CM111D:1-2	CM111D:1-2	CM111D:1-2
C110:AM	CM110:1	CM100:A					
C110:BM	CM110:2	CM100:C					
C110:CM	CM110:3	CM100:B					
C110:DM	CM110:4	CM100:D					
C110:EM	CM110:5	CM100:E					
C110:FM							
C110:GM	CM110:6	CM100:F					
C110:HM	CM110:7	CM100:G					
C110:IM	CM110:8	CM100:H					
C110:JM	CM110:9	CM100:I					
C110:KM	CM110:10	CM100:J					
		CM100:K					
		CM100:L					
C110:LM	CM110:11	CM100:M					
C110:MM	CM110:12	CM100:N					
C110:NM	CM110:13	CM100:O					
C110:OM	CM110:14	CM100:P					
C110:PM	CM110:15	CM100:Q					
C110:QM	CM110:16	CM100:R					

*This variable is listed more than once in this column because its corresponding variables are not numerically adjacent.

TH11	TH21	TH12	TH22	TH13	TH23	TH14	TH24
C111M	CM111	CM101	CM109	CM109	CM113	CM113	CM113
C112:A-OM	CM112:1-15	CM102:A-0					
C113M	CM113	CM103	CM111	CM111	CM115	CM115	CM115
C114:1-14M	CM114:1-12	CM104:1-12	CM112:1-12	CM112:1-12	CM116:1-12	CM116:1-12	CM116:1-12
	CM115:1-12	CM105:1-12	CM113:1-12	CM113:1-12	CM117:1-12	CM117:1-12	CM117:1-12
	CM115A1-12	CM106:2-12	CM113A2-12	CM113A1-12			
	CM115B2-12	CM107:2-12	CM113B2-12	CM113B2-12			
	CM115C2-12						
	CM115D2-12						
C115:1-14M	CM115E1-12	CM108:1-12	CM114:1-12	CM114:1-12	CM118:1-12	CM118:1-12	CM118:1-12
C116:1-14M	CM116:1-12	CM109:1-12	CM115:1-12	CM115:1-12	CM119:1-12	CM119:1-12	CM119:1-12
			CM116:1-12	CM116:1-12	CM120:1-12	CM120:1-12	CM120:1-12
			CM117:1-12	CM117:1-12	CM121:1-12	CM121:1-12	CM121:1-12
			CM118:1-12	CM118:1-12	CM122:1-12	CM122:1-12	CM122:1-12
			CM119:1-12	CM119:1-12			
			CM120A1-12	CM120A1-12	CM123A1-12	CM123A1-12	CM123A1-12
			CM120B1-12	CM120B1-12	CM123B1-12	CM123B1-12	CM123B1-12
			CM120C1-12	CM120C1-12	CM123C1-12	CM123C1-12	CM123C1-12
			CM120D1-12	CM120D1-12	CM123D1-12	CM123D1-12	CM123D1-12
			CM120E1-12	CM120E1-12	CM123E1-12	CM123E1-12	CM123E1-12
			CM120F1-12	CM120F1-12	CM123F1-12	CM123F1-12	CM123F1-12
			CM120G1-12	CM120G1-12	CM123G1-12	CM123G1-12	CM123G1-12
			CM120H1-12	CM120H1-12	CM123H1-12	CM123H1-12	CM123H1-12
			CM120I1-12	CM120I1-12	CM123I1-12	CM123I1-12	CM123I1-12
C117:1-14M	CM117:1-12	CM110:1-12	CM121:1-12	CM121:1-12	CM124:1-12	CM124:1-12	CM124:1-12
C118M	CM118	CM111	CM122	CM122	CM125	CM125	CM125
C119M	CM119	CM112	CM123	CM123	CM126	CM126	CM126
C120M	CM120	CM113	CM124	CM124	CM127	CM127	CM127
C121M	CM121	CM114	CM125	CM125	CM128	CM128	CM128
C122M							
C123M	CM122	CM115	CM126	CM126	CM129	CM129	CM129
C124M	CM123	CM116	CM127	CM127	CM130	CM130	CM130
C125M	CM124	CM117	CM128	CM128			
C126M	CM125	CM118	CM129	CM129			
C127M	CM126	CM119	CM130	CM130	CM131	CM131	CM131
C128:AM	CM127:1	CM120:A	CM131A	CM131A			
C128:BM	CM127:2	CM120:B	CM131B	CM131B	CM132:A	CM132:A	CM132:A
C128:CM	CM127:3	CM120:C	CM131C	CM131C	CM132:B	CM132:B	CM132:B
C128:DM	CM127:4	CM120:D	CM131D	CM131D	CM132:C	CM132:C	CM132:C
C128:EM	CM127:5	CM120:E	CM131E	CM131E	CM132:D	CM132:D	CM132:D
C128:FM	CM127:6	CM120:F	CM131F	CM131F	CM132:E	CM132:E	CM132:E
C128:GM	CM127:7	CM120:G	CM131G	CM131G	CM132:F	CM132:F	CM132:F
C128:HM	CM127:8	CM120:H	CM131H	CM131H	CM132:G	CM132:G	CM132:G
C128:IM	CM127:9	CM120:I	CM131I	CM131I	CM132:H	CM132:H	CM132:H
C128:JM	CM127:10	CM120:J	CM131J	CM131J	CM132:I	CM132:I	CM132:I
C128:KM	CM127:11	CM120:K	CM131K	CM131K	CM132:J	CM132:J	CM132:J
C128:LM	CM127:12	CM120:L	CM131L	CM131L	CM132:K	CM132:K	CM132:K
C128:MM	CM127:13	CM120:M	CM131M	CM131M	CM132:L	CM132:L	CM132:L
C128:NM	CM127:14	CM120:N	CM131N	CM131N	CM132:M	CM132:M	CM132:M
C128:OM	CM127:15	CM120:O	CM131O	CM131O	CM132:N	CM132:N	CM132:N
	CM127:16						
C129:AM	CM128:1	CM121:A	CM132A	CM132A			
C129:BM	CM128:2	CM121:B	CM132B	CM132B			
C129:CM	CM128:3	CM121:C	CM132C	CM132C			
	CM128:4	CM121:D	CM132D	CM132D			
C130M	CM129	CM122	CM133	CM133			
			CM134	CM134	CM133	CM133	CM133
C94M	CM94	CM123	CM135	CM135	CM134	CM134	CM134
C95M	CM95	CM124	CM136	CM136	CM135	CM135	CM135
C96:A1-3M	CM96:1-3A	{ CM125:A1-2 CM130:A }	CM137:A1-3	CM137:A1-3	CM136A:1-3	CM136A:1-3	CM136A:1-3
C96:B1-3M	CM96:1-3B	{ CM125:B1-2 CM130:B }	CM137:B1-3	CM137:B1-3	CM136B:1-3	CM136B:1-3	CM136B:1-3
C96:C1-3M	CM96:1-3C	{ CM125:C1-2 CM130:C }	CM137:C1-3	CM137:C1-3	CM136C:1-3	CM136C:1-3	CM136C:1-3
C96:D1-3M	CM96:1-3D	{ CM125:D1-2 CM130:D }	CM137:D1-3	CM137:D1-3	CM136D:1-3	CM136D:1-3	CM136D:1-3
C96:E1-3M	CM96:1-3E	{ CM125:E1-2 CM130:E }	CM137:E1-3	CM137:E1-3	CM136E:1-3	CM136E:1-3	CM136E:1-3

TH11	TH21	TH12	TH22	TH13	TH23	TH14	TH24
C96:F1-3M	CM96:1-3F	{ CM125:F1-2 CM130:F }	CM137:F1-3	CM137:F1-3	CM136F:1-3	CM137F:1-3	CM137F:1-3
C96:G1-3M	CM96:1-3G		{ CM125:G1-2 CM130:G }	CM137:G1-3	CM137:G1-3	CM136G:1-3	CM136G:1-3
C97:1-3M	CM96:1-3H CM97:1-3A CM97:1-3B CM97:1-3C	CM126:1-2 CM131	CM138:1-3	CM138:1-3	CM137:1-3	CM137:1-3	CM137:1-3
C98:1-3M	CM98:1-3	{ CM127:1-2 CM132 }	CM139:1-3	CM139:1-3	CM138:1-3	CM138:1-3	CM138:1-3
	CM98A:1-3 CM98B:A1-3 CM98B:B1-3 CM98B:C1-3 CM98B:D1-3						
C99:1-3M	CM99:1-3	{ CM128:1-2 CM133 CM129 }	CM140:1-3	CM140:1-3	CM139:1-3	CM139:1-3	CM139:1-3
	CM100 CM100A						
		CM134	CM141	CM141	CM140	CM140	CM140
		CM135	CM142	CM142	CM141	CM141	CM141
		CM136	CM143	CM143			
		CM137:A-C	CM144:A-C	CM144:A-C			
		CM138					
C100M	CM100B						
C101M	CM101						
C102M	CM102						
C103:AM	CM103:A						
C103:BM	CM103:B						
C103:CM	CM103:C						
C103:DM	CM103:D						
C103:EM	CM103:E						
C103:FM	CM103:F						
C103:GM	CM103:G						
	CM103:H						
C131M	CM130	CM139	CM145	CM145	CM142	CM142	CM142
C132:1-5M	CM131:1-5	CM140:1-5	CM146:1-5	CM146:1-5	CM143:1-2	CM143:1-2	CM143:1-2
C133:1-5M	CM132:1-5	CM141:1-5	CM147:1-5	CM147:1-5	CM144:1-2	CM144:1-2	CM144:1-2
C134:1-4M	CM133:1-4	CM142:1-4	CM148:1-4	CM148:1-4	CM145:1	CM145:1	CM145:1
C135M	CM134	CM143	CM149	CM149			
C136M	CM135	CM144					
C137M	CM136	CM145	CM150	CM150			
C138M	CM137	CM146	CM151	CM151	CM4	CM4	CM4
C139M	CM138	CM147	CM152	CM152			
C140M	CM139	CM148					
C141M	CM140	CM149					
			CM153:HR	CM153:HR	CM146:HR	CM146:HR	CM146:HR
			CM153:MN	CM153:MN	CM146:MN	CM146:MN	CM146:MN
			CM153:AP	CM153:AP	CM146:AP	CM146:AP	CM146:AP
C142M			CM154	CM154	CM147	CM147	CM147
CMSTM	CMSTAT	CMSTAT	CMSTAT	CMSTAT			
			CLHRBG	CLHRBG	CL1:HR	CL1:HR	CL1:HR
			CLMNBG	CLMNBG	CL1:MN	CL1:MN	CL1:MN
			CLAPBG	CLAPBG	CL1:AP	CL1:AP	CL1:AP
		CL1	CL2	CL2	CL2	CL2	CL2
		CL2	CL3	CL3	CL3	CL3	CL3
		CL2A	CL4	CL4	CL4	CL4	CL4
		CL3	CL5	CL5	CL5	CL5	CL5
C1L							
C2L		CL4	CL6	CL6	CL6	CL6	CL6
C3L		CL5	CL7	CL7	CL7	CL7	CL7
C4ML		CL6:M					
C4DL		CL6:D					
C4YL		CL6:Y					
C5L		CL7	CL8	CL8	CL8	CL8	CL8
C6L		CL8	CL9	CL9	CL9	CL9	CL9
		CL9	CL10	CL10	CL10	CL10	CL10
B22:AL	BL27:A	CL11:B	CL11:B	CL11:B	CL11BR	CL11BR	CL11BR
B22:BL	BL27:B	CL11:L	CL11:L	CL11:L	CL11LU	CL11LU	CL11LU
B22:CL	BL27:C	CL11:S	CL11:S	CL11:S	CL11SU	CL11SU	CL11SU

<u>TH11</u>	<u>TH21</u>	<u>TH12</u>	<u>TH22</u>	<u>TH13</u>	<u>TH23</u>	<u>TH14</u>	<u>TH24</u>
B23L		BL28	CL12	CL12	CL12	CL12	CL12
B24L		BL29	CL13	CL13	CL13	CL13	CL13
B25L		BL30					
B26L		BL31					
C6AL		CL10	CL14	CL14	CL14	CL14	CL14
C6BL		CL11	CL15	CL15	CL15	CL15	CL15
C6CL		CL12	CL16	CL16	CL16	CL16	CL16
					CL17A-B	CL17A-B	CL17A-B
C7L		CL13	CL17	CL17	CL18:A	CL18:A	CL18:A
C8L		CL14	CL18	CL18			
C8A:A-BL		CL15:A-B	CL19:A-B	CL19:A-B			
C9:A-HL							
C10L							
C13L							
C14:A-BL		CL16:A-B	CL20:A-B	CL20:A-B			
C11L							
C12:AL }		CL16A:A	CL20:CA	CL20:CA	CL18:B	CL18:B	CL18:B
C12:BL }							
					CL18:C	CL18:C	CL18:C
					CL18:D	CL18:D	CL18:D
		CL16A:B	CL20:CB	CL20:CB	CL18:E	CL18:E	CL18:E
C15L		CL17	CL21	CL21	CL19	CL19	CL19
C16:AL		CL18A	CL22	CL22	CL20	CL20	CL20
C16:BL		CL18B	CL22:A	CL22:A	CL20A	CL20A	CL20A
C16:CL		CL18C	CL22:B	CL22:B	CL21	CL21	CL21
C16AL		CL19	CL23	CL23	CL22	CL22	CL22
C16B:AL		CL20A	CL24	CL24	CL23	CL23	CL23
C16B:BL		CL20B	CL24:A	CL24:A	CL23A	CL23A	CL23A
C16B:CL		CL20C	CL24:B	CL24:B	CL24	CL24	CL24
C18L		CL21	CL25	CL25	CL25	CL25	CL25
C17ML		CL22	CL26	CL26	CL26	CL26	CL26
C17YL							
C19L		CL23	CL27	CL27	CL27	CL27	CL27
C20L		CL24	CL28	CL28	CL28	CL28	CL28
		CL25	CL29	CL29	CL29	CL29	CL29
		CL26	CL30	CL30	CL30	CL30	CL30
		CL27	CL31	CL31	CL31	CL31	CL31
		CL28	CL32	CL32	CL32	CL32	CL32
C21L		CL29	CL33	CL33	CL33	CL33	CL33
C22L							
C23:AL		CL30:A	CL34:A	CL34:A	CL34:A	CL34:A	CL34:A
C23:BL		CL30:B	CL34:B	CL34:B	CL34:B	CL34:B	CL34:B
C23:CL		CL30:C	CL34:C	CL34:C			
C23:DL		CL30:D	CL34:D	CL34:D	CL34:C	CL34:C	CL34:C
C24L		CL31	CL35	CL35	CL35	CL35	CL35
C25L		CL32	CL36	CL36	CL36	CL36	CL36
C26L		CL33	CL37	CL37			
			CL37:X	CL37:X			
C37:1L		CL34:1	CL38:1	CL38:1	CL37:1	CL37:1	CL37:1
C40A:A1L		CL37:A1	CL39:1A	CL39:1A	CL38:A1	CL38:A1	CL38:A1
C40A:B1L		CL37:B1	CL39:1B	CL39:1B	CL38:B1	CL38:B1	CL38:B1
C40A:C1L		CL37:C1	CL39:1C	CL39:1C	CL38:C1	CL38:C1	CL38:C1
C40A:D1L		CL37:D1	CL39:1D	CL39:1D	CL38:D1	CL38:D1	CL38:D1
C39AB:1L		CL35:1	CL40:1	CL40:1	CL39:1	CL39:1	CL39:1
C40:A1L		CL36:A1	CL41:1A	CL41:1A	CL40:A1	CL40:A1	CL40:A1
C40:B1L		CL36:B1	CL41:1B	CL41:1B	CL40:B1	CL40:B1	CL40:B1
C40:C1L		CL36:C1	CL41:1C	CL41:1C	CL40:C1	CL40:C1	CL40:C1
		CL36:D1	CL41:1D	CL41:1D	CL40:D1	CL40:D1	CL40:D1
		CL36:E1	CL41:1E	CL41:1E	CL40:E1	CL40:E1	CL40:E1
		CL34:2	CL38:2	CL38:2	CL37:2	CL37:2	CL37:2
C37:2L		CL37:A2	CL39:2A	CL39:2A	CL38:A2	CL38:A2	CL38:A2
C40A:A2L		CL37:B2	CL39:2B	CL39:2B	CL38:B2	CL38:B2	CL38:B2
C40A:B2L		CL37:C2	CL39:2C	CL39:2C	CL38:C2	CL38:C2	CL38:C2
C40A:C2L		CL37:D2	CL39:2D	CL39:2D	CL38:D2	CL38:D2	CL38:D2
C40A:D2L		CL35:2	CL40:2	CL40:2	CL39:2	CL39:2	CL39:2
C39AB:2L		CL36:A2	CL41:2A	CL41:2A	CL40:A2	CL40:A2	CL40:A2
C40:A2L		CL36:B2	CL41:2B	CL41:2B	CL40:B2	CL40:B2	CL40:B2
C40:B2L		CL36:C2	CL41:2C	CL41:2C	CL40:C2	CL40:C2	CL40:C2
C40:C2L		CL36:D2	CL41:2D	CL41:2D	CL40:D2	CL40:D2	CL40:D2

TH11	TH21	TH12	TH22	TH13	TH23	TH14	TH24
		CL36:E2	CL41:2E	CL41:2E	CL40:E2	CL40:E2	CL40:E2
C40:A3L							
C40:B3L							
C40:C3L							
C37:4L		CL34:3	CL38:3	CL38:3	CL37:3	CL37:3	CL37:3
C39AB:4L		CL35:3	CL40:3	CL40:3	CL39:3	CL39:3	CL39:3
C40:A4L		CL36:A3	CL41:3A	CL41:3A	CL40:A3	CL40:A3	CL40:A3
C40:B4L		CL36:B3	CL41:3B	CL41:3B	CL40:B3	CL40:B3	CL40:B3
C40:C4L		CL36:C3	CL41:3C	CL41:3C	CL40:C3	CL40:C3	CL40:C3
		CL36:D3	CL41:3D	CL41:3D	CL40:D3	CL40:D3	CL40:D3
		CL36:E3	CL41:3E	CL41:3E	CL40:E3	CL40:E3	CL40:E3
		CL34:4A	CL38:OF	CL38:OF			
C37:5L		CL34:4B	CL38:4	CL38:4	CL37:4	CL37:4	CL37:4
C40A:A5L		CL37:A4	CL39:4A	CL39:4A	CL38:A4	CL38:A4	CL38:A4
C40A:B5L		CL37:B4	CL39:4B	CL39:4B	CL38:B4	CL38:B4	CL38:B4
C40A:C5L		CL37:C4	CL39:4C	CL39:4C	CL38:C4	CL38:C4	CL38:C4
C40A:D5L		CL37:D4	CL39:4D	CL39:4D	CL38:D4	CL38:D4	CL38:D4
C39AB:5L		CL35:4	CL40:4	CL40:4	CL39:4	CL39:4	CL39:4
C40:A5L		CL36:A4	CL41:4A	CL41:4A	CL40:A4	CL40:A4	CL40:A4
C40:B5L		CL36:B4	CL41:4B	CL41:4B	CL40:B4	CL40:B4	CL40:B4
C40:C5L		CL36:C4	CL41:4C	CL41:4C	CL40:C4	CL40:C4	CL40:C4
		CL36:D4	CL41:4D	CL41:4D	CL40:D4	CL40:D4	CL40:D4
		CL36:E4	CL41:4E	CL41:4E	CL40:E4	CL40:E4	CL40:E4
C37:6L		CL34:5	CL38:5	CL38:5	CL37:6	CL37:6	CL37:6
C39AB:6L		CL35:5	CL40:5	CL40:5	CL39:6	CL39:6	CL39:6
C40:A6L		CL36:A5	CL41:5A	CL41:5A	CL40:A6	CL40:A6	CL40:A6
C40:B6L		CL36:B5	CL41:5B	CL41:5B	CL40:B6	CL40:B6	CL40:B6
C40:C6L		CL36:C5	CL41:5C	CL41:5C	CL40:C6	CL40:C6	CL40:C6
		CL36:D5	CL41:5D	CL41:5D	CL40:D6	CL40:D6	CL40:D6
		CL36:E5	CL41:5E	CL41:5E	CL40:E6	CL40:E6	CL40:E6
C37:7L		CL34:6	CL38:6	CL38:6	CL37:5	CL37:5	CL37:5
C39AB:7L		CL35:6	CL40:6	CL40:6	CL39:5	CL39:5	CL39:5
C40:A7L		CL36:A6	CL41:6A	CL41:6A	CL40:A5	CL40:A5	CL40:A5
		CL36:D6	CL41:6D	CL41:6D	CL40:D5	CL40:D5	CL40:D5
		CL36:E6	CL41:6E	CL41:6E	CL40:E5	CL40:E5	CL40:E5
C40:A8L							
C40:B8L							
C40:C8L							
C37:9L		CL34:7	CL38:7	CL38:7	CL37:7	CL37:7	CL37:7
C39AB:9L		CL35:7	CL40:7	CL40:7	CL39:7	CL39:7	CL39:7
C40:A9L		CL36:A7	CL41:7A	CL41:7A	CL40:A7	CL40:A7	CL40:A7
		CL36:D7	CL41:7D	CL41:7D	CL40:D7	CL40:D7	CL40:D7
		CL36:E7	CL41:7E	CL41:7E	CL40:E7	CL40:E7	CL40:E7
		CL38:A1-5	CL42:1-3A	CL42:1-3A	CL41:A1-2	CL41:A1-2	CL41:A1-2
		CL38:B1-5	CL42:1-3B	CL42:1-3B	CL41:B1-2	CL41:B1-2	CL41:B1-2
		CL38:C1-5	CL42:1-3C	CL42:1-3C	CL41:C1-2	CL41:C1-2	CL41:C1-2
		CL38:D1-5	CL42:1-3D	CL42:1-3D	CL41:D1-2	CL41:D1-2	CL41:D1-2
		CL38:E1-5	CL42:1-3E	CL42:1-3E	CL41:E1-2	CL41:E1-2	CL41:E1-2
		CL38:F1-5	CL42:1-3F	CL42:1-3F	CL41:F1-2	CL41:F1-2	CL41:F1-2
		CL38:G1-5	CL42:1-3G	CL42:1-3G	CL41:G1-2	CL41:G1-2	CL41:G1-2
		CL39:A1-5	CL43:1-3A	CL43:1-3A	CL42:A1-2	CL42:A1-2	CL42:A1-2
		CL39:B1-5	CL43:1-3B	CL43:1-3B	CL42:B1-2	CL42:B1-2	CL42:B1-2
		CL39:C1-5	CL43:1-3C	CL43:1-3C	CL42:C1-2	CL42:C1-2	CL42:C1-2
		CL39:D1-5	CL43:1-3D	CL43:1-3D	CL42:D1-2	CL42:D1-2	CL42:D1-2
							CL42:E
C41:AL		CL40:A					
C41:BL		CL40:B					
C41:CL		CL40:C					
C41:DL		CL40:D					
		CL40:E					
C41:EL		CL40:F					
C41:FL		CL40:G					
C41:GL		CL40:H					
C41:HL		CL40:I					
C41:IL		CL40:J					
		CL40:K					
C41:JL		CL40:L					
C42:AL							
C42:BL		CL41:A					

TH11	TH21	TH12	TH22	TH13	TH23	TH14	TH24
C42:CL		CL41:B					
C42:DL		CL41:C					
C42:EL		CL41:D					
C42:FL		CL41:E					
C42:GL		CL41:F					
C43L		CL42	CL46	CL46	CL45	CL45	CL45
C44:A-IL		CL43:A-I					
C45L		CL44	CL48	CL48	CL47	CL47	CL47
C46:1-14L		CL45:1-12	CL49:1-12	CL49:1-12	CL48:1-12	CL48:1-12	CL48:1-12
		CL46:1-12	CL50:1-12	CL50:1-12	CL49:1-12	CL49:1-12	CL49:1-12
		CL47:2-12	CL50:A2-12	CL50:A2-12			
		CL48:2-12	CL50:B2-12	CL50:B2-12			
C47:1-14L		CL49:1-12	CL51:1-12	CL51:1-12	GL50:1-12	GL50:1-12	GL50:1-12
C48:1-14L		CL50:1-12	CL52:1-12	CL52:1-12	GL51:1-12	GL51:1-12	GL51:1-12
			CL53:1-12	CL53:1-12	GL52:1-12	GL52:1-12	GL52:1-12
			CL54:1-12	CL54:1-12	GL53:1-12	GL53:1-12	GL53:1-12
			CL55:1-12	CL55:1-12	GL54:1-12	GL54:1-12	GL54:1-12
			CL56:1-12	CL56:1-12			
			CL57:A1-12	CL57:A1-12	CL55:A1-12	CL55:A1-12	CL55:A1-12
			CL57:B1-12	CL57:B1-12	CL55:B1-12	CL55:B1-12	CL55:B1-12
			CL57:C1-12	CL57:C1-12	CL55:C1-12	CL55:C1-12	CL55:C1-12
			CL57:D1-12	CL57:D1-12	CL55:D1-12	CL55:D1-12	CL55:D1-12
			CL57:E1-12	CL57:E1-12	CL55:E1-12	CL55:E1-12	CL55:E1-12
			CL57:F1-12	CL57:F1-12	CL55:F1-12	CL55:F1-12	CL55:F1-12
			CL57:G1-12	CL57:G1-12	CL55:G1-12	CL55:G1-12	CL55:G1-12
			CL57:H1-12	CL57:H1-12	CL55:H1-12	CL55:H1-12	CL55:H1-12
			CL57:I1-12	CL57:I1-12	CL55:I1-12	CL55:I1-12	CL55:I1-12
C49:1-14L		CL51:1-12	CL58:1-12	CL58:1-12	CL56:1-12	CL56:1-12	CL56:1-12
C50L		CL52	CL59	CL57	CL57	CL57	CL57
		CL53	CL60	CL60	CL58	CL58	CL58
C51:A-CL		CL54:A-C	CL61:A-C	CL61:A-C	CL59A-C	CL59A-C	CL59A-C
C51AL		CL55	CL62	CL60	CL60	CL60	CL60
C52L		CL56	CL63	CL63	CL61	CL61	CL61
C53L		CL57	CL64	CL64	CL62	CL62	CL62
C54L		CL58	CL65	CL65	CL63	CL63	CL63
C55L		CL59	CL66	CL66	CL64	CL64	CL64
C56:A-BL		CL60:A-B	CL67:A-B	CL67:A-B	CL65A-B	CL65A-B	CL65A-B
C27L		CL61	CL68	CL66	CL66	CL66	CL66
C28L		CL62	CL69	CL69	CL67	CL67	CL67
C29:A1-2L		{ CL63:A1-2 }	CL70:A1-3	CL70:A1-3	CL68:A1-3	CL68:A1-3	CL68:A1-3
		{ CL68:A }					
C29:B1-2L		{ CL63:B1-2 }	CL70:B1-3	CL70:B1-3	CL68:B1-3	CL68:B1-3	CL68:B1-3
		{ CL68:B }					
C29:C1-2L		{ CL63:C1-2 }	CL70:C1-3	CL70:C1-3	CL68:C1-3	CL68:C1-3	CL68:C1-3
		{ CL68:C }					
C29:D1-2L		{ CL63:D1-2 }	CL70:D1-3	CL70:D1-3	CL68:D1-3	CL68:D1-3	CL68:D1-3
		{ CL68:D }					
C29:E1-2L		{ CL63:E1-2 }	CL70:E1-3	CL70:E1-3	CL68:E1-3	CL68:E1-3	CL68:E1-3
		{ CL68:E }					
C29:F1-2L		{ CL63:F1-2 }	CL70:F1-3	CL70:F1-3	CL68:F1-3	CL68:F1-3	CL68:F1-3
		{ CL68:F }					
C29:G1-2L		{ CL63:G1-2 }	CL70:G1-3	CL70:G1-3	CL68:G1-3	CL68:G1-3	CL68:G1-3
		{ CL68:G }					
C30:1-2L		{ CL64:1-2 }	CL71:1-3	CL71:1-3	CL69:1-3	CL69:1-3	CL69:1-3
		{ CL69 }					
C31:1-2L		{ CL65:1-2 }	CL72:1-3	CL72:1-3	CL70:1-3	CL70:1-3	CL70:1-3
		{ CL70 }					
C32:1-2L		{ CL66:1-2 }	CL73:1-3	CL73:1-3	CL71:1-3	CL71:1-3	CL71:1-3
		{ CL71 }					
		CL67					
		CL72	CL74	CL74	CL72	CL72	CL72
		CL73	CL75	CL75	CL73	CL73	CL73
		CL74	CL76	CL76			
		CL75:A-C	CL77:1-3	CL77:1-3			
		CL76					
C33L							
C34L							
C35L							
C36:A-GL							
C57L		CL77	CL78	CL78	CL74	CL74	CL74

TH11	TH21	TH12	TH22	TH13	TH23	TH14	TH24
C58:1-5L		CL78:1-5	CL79:1-5	CL79:1-5	CL75:1-2	CL75:1-2	CL75:1-2
C59:1-5L		CL79:1-5	CL80:1-5	CL80:1-5	CL76:1-2	CL76:1-2	CL76:1-2
C60:1-4L		CL80:1-4	CL81:1-4	CL81:1-4	CL77:1	CL77:1	CL77:1
C61L		CL81	CL82	CL82			
C62L		CL82					
		CL83	CL83	CL83			
		CL84	CL84	CL84			
		CL85	CL85	CL85			
		CL86					
C63L		CL87					
			CLHREN	CLHREN	CL78:HR	CL78:HR	CL78:HR
			CLMNEN	CLMNEN	CL78:MN	CL78:MN	CL78:MN
			CLAPEN	CLAPEN	CL78:AP	CL78:AP	CL78:AP
C64L			CL87	CL87	CL79	CL79	CL79
CMSTL		CLSTAT					
			D1	D1	D1	D1	D1
			D2	D2	D2	D2	D2
			D2A	D2A	D2A	D2A	D2A
			D2B	D2B	D2B	D2B	D2B
				D3	D3	D3	D3
			D3A:HR	D3A:HR	D4:HR	D4:HR	D4:HR
			D3A:MN	D3A:MN	D4:MN	D4:MN	D4:MN
			D3B:AP	D3B:AP	D4:AP	D4:AP	D4:AP
	DS1	D4	D4	D5	D5	D5	D5
	DS2	D5	D5	D6	D6	D6	D6
	DS3	D6	D6	D7	D7	D7	D7
	DS4	D7	D7	D8	D8	D8	D8
	DS5	D8	D8	D9	D9	D9	D9
	DS6:1-3	D9:1-3	D9:1-3	D10:1-4	D10:1-4	D10:1-4	D10:1-4
	DS7	D10	D10	D11	D11	D11	D11
	DS8	D11	D11	D12	D12	D12	D12
		D12	D12	D13	D13	D13	D13
	DS9	D13	D13	D14	D14	D14	D14
	DS10	D14	D14	D15	D15	D15	D15
	DS11	D15	D15	D16	D16	D16	D16
	DS12:A-D	D16:A-D	D16:A-D	D17:A-D	D17:A-D	D17:A-D	D17:A-D
	DS13:A-B	D17:A-B	D17:A-B	D18:A-B	D18:A-B	D18:A-B	D18:A-B
		D18	D18	D19	D19	D19	D19
	DS13:C	D18A	D18A	D19A	D19A	D19A	D19A
	DS14	D19	D19	D20	D20	D20	D20
	DS15:A-E1	D20:A-E	D20:A-E	D21:A-D2	D21:A-D2	D21:A-D2	D21:A-D2
	DS16:A-F	D21:A-F	D21:A-F	D22:A-F	D22:A-F	D22:A-F	D22:A-F
		D22	D22	D23	D23	D23	D23
	DS16:H	D22:A	D22:A	D23A	D23A	D23A	D23A
		D23	D23	D24	D24	D24	D24
	DS16:G	D23:A	D23:A	D25	D25	D25	D25
	DS16:I	D24	D24	D26	D26	D26	D26
	DS16:J						
	DS17	D25	D25	D27	D27	D27	D27
	DS18	D26	D26	D28	D28	D28	D28
		D26A:1-3	D26A:1-3	D28A:1-4	D28A:1-4	D28A:1-4	D28A:1-4
	DSSTAT						
			D27A:HR	D27A:HR	D29:HR	D29:HR	D29:HR
			D27A:MN	D27A:MN	D29:MN	D29:MN	D29:MN
			D27B:AP	D27B:AP	D29:AP	D29:AP	D29:AP
			D28	D28	D30	D30	D30
PLANS							
PLANSMH } D1	DL1		D28A	D28A	D30A	D30A	D30A
STAY							
STAYMH }							
	D2	DL2	D29	D29	D31	D31	D31
	D2A:1-3	DL3:1-3	D30:1-3	D30:1-3	D32:1-4	D32:1-4	D32:1-4
MHPARK	D3	DL4	D31	D31	D33	D33	D33
EXITFEE	D4	DL5	D32	D32	D34	D34	D34
MOVEMO } D5A:M	DL7:M	D33A:M	D33A:M	D35A:M	D35A:M	D35A:M	D35A:M
MOVEINMM }							
MOVEYR } D5A:Y	DL7:Y	D33A:Y	D33A:Y	D35A:Y	D35A:Y	D35A:Y	D35A:Y
MOVEINMY }							
MOVEIN } D5B	DL7:B	D33BC	D33BC	D35BC	D35BC	D35BC	D35BC
MOVEINMH }							

<u>TH11</u>	<u>TH21</u>	<u>TH12</u>	<u>TH22</u>	<u>TH13</u>	<u>TH23</u>	<u>TH14</u>	<u>TH24</u>
BEFORE	D6	DL8	D34	D34	D36	D36	D36
BEFOREMH } MONTHTH } DATEMHMH }	D7:M	DL9:M	D35:M	D35:M	D37:M	D37:M	D37:M
DATE	D7:Y	DL9:Y	D35:Y	D35:Y	D37:Y	D37:Y	D37:Y
DATEMHY } DINST1 }	D8	DL10	D36	D36	D38	D38	D38
DINST1MH }							
SINCE							
SINCEMH							
RETURNM							
RETURNMM							
RETURNY							
RETURNMY							
RETURNB							
RETURNMB							
DINST2							
DINST2MH							
HOWFIND	D9	DL11	D37	D37	D39	D39	D39
DINST3	D10	DL12	D38	D38	D40	D40	D40
	D11	DL13	D39	D39	D41	D41	D41
			D40	D40	D42	D42	D42
					D44:1-4	D44:1-4	D44:1-4
					D45	D45	D45
PLACES	D12	DL14	D41	D41	D46	D46	D46
MINSAWAY	D13						
	D14	DL15	D42	D42			
	D15	DL16	D43	D43	D43	D43	D43
MEANSR	D16:A	DL17:A	D44:A	D44:A	D47:A	D47:A	D47:A
MEANSN	D16:B	DL17:B	D44:B	D44:B	D47:B	D47:B	D47:B
MEANSA	D16:C	DL17:C	D44:C	D44:C	D47:C	D47:C	D47:C
MEANSF	D16:D	DL17:D	D44:D	D44:D	D47:D	D47:D	D47:D
		DL18:A-B	D45:A-B	D45:A-B	D48:A-B	D48:A-B	D48:A-B
			D46	D46	D49	D49	D49
		DL18:C	D46:A	D46:A	D49:A	D49:A	D49:A
		DL19	D47	D47	D50	D50	D50
		DL20:A-E1	D48:A-E	D48:A-E	D51:A-D2	D51:A-D2	D51:A-D2
HOWLONG	D17:A	DL21:A	D49:A	D49:A	D52:A	D52:A	D52:A
PERIOD	D17:B	DL21:B	D49:B	D49:B	D52:B	D52:B	D52:B
PROBAGE	D18:A	DL22:A	D50:A	D50:A	D53:A	D53:A	D53:A
PROBSEX	D18:B	DL22:B	D50:B	D50:B	D53:B	D53:B	D53:B
PROBMS	D18:C	DL22:C	D50:C	D50:C	D53:C	D53:C	D53:C
PROBRACE	D18:D	DL22:D	D50:D	D50:D	D53:D	D53:D	D53:D
PROBNAT	D18:E	DL22:E	D50:E	D50:E	D53:E	D53:E	D53:E
PROB	D18:F	DL22:F	D50:F	D50:F	D53:F	D53:F	D53:F
			D51	D51	D54	D54	D54
PROBPETS	D18:H	DL22:H	D51:A	D51:A	D54:A	D54:A	D54:A
			D52	D52	D55	D55	D55
PROBKIDS	D18:G	DL22:G	D52:A	D52:A	D55:A	D55:A	D55:A
	D18:I	DL22:I	D53	D53	D56	D56	D56
	D18:J	DL22:J					
MOVECOST	D19	DL23	D54	D54	D57	D57	D57
DINST4MH	D20	DL24	D55	D55	D58	D58	D58
ENTFEEMH	D21	DL25	D56	D56	D59	D59	D59
REASON2-4	D22:A1-3	DL26:1-3	D57:1-3	D57:1-3	D60:1-4	D60:1-4	D60:1-4
REASON1	D22A	DL26A	D57A	D57A	D60A	D60A	D60A
	D22B						
	D22C:1-31						
	D22D:1-3						
	D22E:1-3						
DINST5TH } DINST5MH }	D23	DL27	D58	D58	D61	D61	D61
DINST5LR }							
FSTRENT }	D24	DL28					
FSTRNTMH }							
	D25:A	DL29:A					
	D25:B	DL29:B					
	D25:C						

TH11	TH21	TH12	TH22	TH13	TH23	TH14	TH24
PAYPRD } PAYPRDMK }	D25A	DL30					
	D26	DL31					
	D27:A } D27:C }	DL32:A					
	D27:B	DL32:C					
	D27A	DL33					
	D28	DL34	D59	D59	D62	D62	D62
	D28A:1-6	DL35:A-F	D60:A-F	D60:A-F	D63:A-F	D63:A-F	D63:A-F
	D28B:1-6	DL36:A-F	D61:A-F	D61:A-F	D64:A-F	D64:A-F	D64:A-F
UTILS(A-D)	D30:A-D	DL38:A-D					
	D29A:1	DL39:A	D62:A	D62:A	D65A	D65A	D65A
	D29A:2	DL39:B	D62:B	D62:B	D65B	D65B	D65B
			D62:C	D62:C	D65C	D65C	D65C
	D29A:3	DL39:C	D62:D	D62:D	D65D	D65D	D65D
	D29B:1	DL40:A	D63:A	D63:A	D66:A	D66:A	D66:A
	D29B:2	DL40:B	D63:B	D63:B	D66:B	D66:B	D66:B
			D63:C	D63:C	D66:C	D66:C	D66:C
	D29B:3	DL40:C	D63:D	D63:D	D66:D	D66:D	D66:D
VALPROPA							
VALPROPB							
VALUHOUS							
VALULAND							
ORCMS	D31	DL41	D64	D64	D67	D67	D67
MINORS	D32	DL42	D65	D65	D68	D68	D68
HHSIZED	D33	DL43	D66	D66	D69	D69	D69
FSTLOC	D34:A1	DL44A1	D67A:1	D67A:1	D70A:1	D70A:1	D70A:1
FSTDATEM	D34:B11	DL44B:1M	D67B:M1	D67B:M1	D70B:M1	D70B:M1	D70B:M1
FSTDATEY	D34:B12	DL44B:1Y	D67B:Y1	D67B:Y1	D70B:Y1	D70B:Y1	D70B:Y1
	D34:B13	DL44B:1B	D67B:1	D67B:1	D70B:1	D70B:1	D70B:1
	D34:C1	DL44C1	D67C:1	D67C:1	D70C:1	D70C:1	D70C:1
FSTADD	D35:A1	DL45A1	D68A:1	D68A:1	D71A:1	D71A:1	D71A:1
FSTNC	D35:B1	DL45B1	D68B:1	D68B:1	D71B:1	D71B:1	D71B:1
SNDLOC	D34:A2	DL44A2	D67A:2	D67A:2	D70A:2	D70A:2	D70A:2
SNDDATED	D34:B21	DL44B:2M	D67B:M2	D67B:M2	D70B:M2	D70B:M2	D70B:M2
SNDDATEY	D34:B22	DL44B:2Y	D67B:Y2	D67B:Y2	D70B:Y2	D70B:Y2	D70B:Y2
	D34:B23	DL44B:2B	D67B:2	D67B:2	D70B:2	D70B:2	D70B:2
	D34:C2	DL44C2	D67C:2	D67C:2	D70C:2	D70C:2	D70C:2
SNDADD	D35:A2	DL45A2	D68A:2	D68A:2	D71A:2	D71A:2	D71A:2
SNDND	D35:B2	DL45B2	D68B:2	D68B:2	D71B:2	D71B:2	D71B:2
TRDLOC	D34:A3	DL44A3	D67A:3	D67A:3	D70A:3	D70A:3	D70A:3
TRDDATEM	D34:B31	DL44B:3M	D67B:M3	D67B:M3	D70B:M3	D70B:M3	D70B:M3
TRDDATEY	D34:B32	DL44B:3Y	D67B:Y3	D67B:Y3	D70B:Y3	D70B:Y3	D70B:Y3
	D34:B33	DL44B:3B	D67B:3	D67B:3	D70B:3	D70B:3	D70B:3
	D34:C3	DL44C3	D67C:3	D67C:3	D70C:3	D70C:3	D70C:3
TRDADD	D35:A3	DL45A3	D68A:3	D68A:3	D71A:3	D71A:3	D71A:3
TRDNC	D35:B3	DL45B3	D68B:3	D68B:3	D71B:3	D71B:3	D71B:3
FTHLOC	D34:A4	DL44A4	D67A:4	D67A:4	D70A:4	D70A:4	D70A:4
FTHDATEM	D34:B41	DL44B:4M	D67B:M4	D67B:M4	D70B:M4	D70B:M4	D70B:M4
FTHDATEY	D34:B42	DL44B:4Y	D67B:Y4	D67B:Y4	D70B:Y4	D70B:Y4	D70B:Y4
	D34:B43	DL44B:4B	D67B:4	D67B:4	D70B:4	D70B:4	D70B:4
	D34:C4	DL44C4	D67C:4	D67C:4	D70C:4	D70C:4	D70C:4
FTHADD	D35:A4	DL45A4	D68A:4	D68A:4	D71A:4	D71A:4	D71A:4
FTHNC	D35:B4	DL45B4	D68B:4	D68B:4	D71B:4	D71B:4	D71B:4
FIFLOC	D34:A5	DL44A5	D67A:5	D67A:5	D70A:5	D70A:5	D70A:5
FIFDATEM	D34:B51	DL44B:5M	D67B:M5	D67B:M5	D70B:M5	D70B:M5	D70B:M5
FIFDATEY	D34:B52	DL44B:5Y	D67B:Y5	D67B:Y5	D70B:Y5	D70B:Y5	D70B:Y5
	D34:B53	DL44B:5B	D67B:5	D67B:5	D70B:5	D70B:5	D70B:5
	D34:C5	DL44C5	D67C:5	D67C:5	D70C:5	D70C:5	D70C:5
FIFADD	D35:A5	DL45A5	D68A:5	D68A:5	D71A:5	D71A:5	D71A:5
FIFNC	D35:B5	DL45B5	D68B:5	D68B:5	D71B:5	D71B:5	D71B:5
XTHLOC	D34:A6	DL44A6	D67A:6	D67A:6	D70A:6	D70A:6	D70A:6
XTHDATEM	D34:B61	DL44B:6M	D67B:M6	D67B:M6	D70B:M6	D70B:M6	D70B:M6
XTHDATEY	D34:B62	DL44B:6Y	D67B:Y6	D67B:Y6	D70B:Y6	D70B:Y6	D70B:Y6
	D34:B63	DL44B:6B	D67B:6	D67B:6	D70B:6	D70B:6	D70B:6
	D34:C6	DL44C6	D67C:6	D67C:6	D70C:6	D70C:6	D70C:6
XTHADD	D35:A6	DL45A6	D68A:6	D68A:6	D71A:6	D71A:6	D71A:6
XTHNC	D35:B6	DL45B6	D68B:6	D68B:6	D71B:6	D71B:6	D71B:6
			D69	D69	D72	D72	D72

<u>TH11</u>	<u>TH21</u>	<u>TH12</u>	<u>TH22</u>	<u>TH13</u>	<u>TH23</u>	<u>TH14</u>	<u>TH24</u>
UNITTYPE	D36	DL46	D70	D70	D73	D73	D73
NTHEXPS	D37	DL47	D71	D71	D74	D74	D74
			D72	D72	D75	D75	D75
PTENURE	D38	DL48	D73	D73	D76	D76	D76
OTHRWNR	D38A	DL49	D74	D74	D77	D77	D77
LASTRENT	{ D39:A }	DL50:A	D75:AB	D75:AB	D78:A	D78:A	D78:A
	{ D39:B }						
	D39:C	DL50:C	D75:C	D75:C	D78:B	D78:B	D78:B
RENDPRD	D39A	DL51	D76	D76	D79	D79	D79
			D77	D77			
			D78	D78			
			D79	D79	D81:1	D81:1	D81:1
			D80	D80	D80	D80	D80
			D80A:1-2	D80A:1-2	D81:2-3	D81:2-3	D81:2-3
			D81	D81	D82	D82	D82
			D81A	D81A	D82A	D82A	D82A
			D81B	D81B	D83	D83	D83
					D84	D84	D84
ELEC	D40:1	DL52:A	D82:A	D82:A	D85:A	D85:A	D85:A
ELECUSEL							
ELECUSEC							
ELECUSEW							
ELECUSEH							
GAS	D40:2	DL52:B	D82:B	D82:B	D85:B	D85:B	D85:B
GASUSEC							
GASUSEW							
GASUSEH							
FUEL	D40:3	DL52:C	D82:C	D82:C	D85:C	D85:C	D85:C
FUELUSEC							
FUELUSEW							
FUELUSEH							
WATER	D40:4	DL52:D	D82:D	D82:D	D85:D	D85:D	D85:D
ELECPAY	D40A:1	DL53:A	D83:A	D83:A	D86:A	D86:A	D86:A
GASPAY	D40A:2	DL53:B	D83:B	D83:B	D86:B	D86:B	D86:B
FUELPAY	D40A:3	DL53:C	D83:C	D83:C	D86:C	D86:C	D86:C
WATERPAY	D40A:4	DL53:D	D83:D	D83:D	D86:D	D86:D	D86:D
D33	D41A	DL54:A	D84:A	D84:A	D87:A	D87:A	D87:A
	D41B	DL54:B	D84:B	D84:B	D87:B	D87:B	D87:B
	D42	DL55	D85	D85	D88	D88	D88
D34	D43	DL56	D86	D86	D89	D89	D89
D35	D44	DL57	D87	D87	D90	D90	D90
D36	D45	DL58	D88	D88	D91	D91	D91
D37	D46	DL59	D89	D89	D92	D92	D92
D38	D47	DL60	D90	D90	D93:A	D93:A	D93:A
					D93:B	D93:B	D93:B
D39	D48	DL61	D91	D91	D94	D94	D94
D40:1	D49C:1						
D40:2	D49:1	DL62:A	D92:A	D92:A	D95:A	D95:A	D95:A
D40:3	D49:3	DL62:B	D92:B	D92:B	D95:B	D95:B	D95:B
D40:4	D49:4	DL62:C	D92:C	D92:C	D95:C	D95:C	D95:C
			D92:D	D92:D	D95:D	D95:D	D95:D
D40:5	D50:1	DL62:D	D92:E	D92:E	D95:E	D95:E	D95:E
D40A:5	D50A:1						
D40:6	D50:2	DL62:E	D92:F	D92:F	D95:F	D95:F	D95:F
D40A:6	D50A:2						
D41:2	D49A:1	DL63:A	D93:A	D93:A	D96:A	D96:A	D96:A
	D49A:2						
D41:3	D49A:3	DL63:B	D93:B	D93:B	D96:B	D96:B	D96:B
D41:4	D49A:4	DL63:C	D93:C	D93:C	D96:C	D96:C	D96:C
			D93:D	D93:D	D96:D	D96:D	D96:D
D41:5	D51:1	DL63:D	D93:E	D93:E	D96:E	D96:E	D96:E
D41:6	D51:2	DL63:E	D93:F	D93:F	D96:F	D96:F	D96:F
D42:1							
D42A:1	D49B:1						
D42:2							
D42:3							
			D94	D94	D97	D97	D97
		DL64	D95	D95	D98	D98	D98
D43	D52						

<u>TH11</u>	<u>TH21</u>	<u>TH12</u>	<u>TH22</u>	<u>TH13</u>	<u>TH23</u>	<u>TH14</u>	<u>TH24</u>
D46	D55	DL65	D96	D96	D99	D99	D99
D44	D53	DL66	D97	D97	D100	D100	D100
D45	D54	DL67	D98	D98	D101	D101	D101
D47	D56	DL68	D99	D99	D102	D102	D102
D48	D57	DL69	D100	D100	D103	D103	D103
D48A	D58	DL70	D101	D101	D104	D104	D104
D49	D59	DL71	D102	D102	D105	D105	D105
D50	D60	DL72	D103	D103	D106	D106	D106
D51	D61	DL73	D104	D104	D107	D107	D107
D52	D62						
D53	D63		D105	D105	D108	D108	D108
			D106A:1-4	D106A:1-4	D109A:1-4	D109A:1-4	D109A:1-4
			D106B:1-4	D106B:1-4	D109B:1-4	D109B:1-4	D109B:1-4
			D106C:1-4	D106C:1-4			
D54:A-B	D64:A-B						
D55	D65	DL74	D107	D107	D110	D110	D110
D56	D66						
D57	D67	DL75	D108	D108	D111	D111	D111
D57:A	D67:A	DL75:A	D108:A	D108:A			
D57:B	D67:B	DL75:B	D108:B	D108:B	D111:A	D111:A	D111:A
D57:C1	D67:C1	DL75:C	D108:C	D108:C			
D57:C2-3	D67:C2-3						
D57:D1	D67:D1	DL75:D	D108:D	D108:D			
D57:D2-3	D67:D2-3						
D57:E	D67:E	DL75:E	D108:E	D108:E			
D57:F	D67:F		D108:F	D108:F	D111:B	D111:B	D111:B
D57:G	D67:G		D108:G	D108:G	D111:C	D111:C	D111:C
D57:H	D67:H		D108:H	D108:H	D111:D	D111:D	D111:D
D57:I	D67:I		D108:I	D108:I	D111:E	D111:E	D111:E
D57:J	D67:J	DL75:F	D108:J	D108:J	D111:F	D111:F	D111:F
D57:K	D67:K	DL75:G					
D57:L	D67:L	DL75:H					
D57:M	D67:M	DL75:I	D108:K	D108:K	D111:G	D111:G	D111:G
D57:N	D67:N						
D58A:A-C	D68:A-B	DL76:1-3	D109:1-3	D109:1-3	D112:1-4	D112:1-4	D112:1-4
D58	D68A	DL76A	D109A	D109A	D112A	D112A	D112A
	D69	DL77	D110	D110	D113	D113	D113
D59	D70	DL78	D111	D111			
D60	D71	DL79	D112	D112			
D61	D72:A	DL80:A	D113:AB	D113:AB			
	D72:B	DL80:C	D113:C	D113:C			
D62	D73	DL81	D114	D114			
	D74	DL82	D115	D115			
D63:A-D							
D64:A-B							
D65							
	D74A	DL83	D116	D116			
	D74B	DL84	D117	D117			
	D74C	DL85	D118	D118			
	D74D	DL86	D119	D119			
D66	D75	DL87	D120	D120	D114	D114	D114
D67	D76	DL88	D121	D121	D115	D115	D115
D68	D77	DL89	D122	D122	D116	D116	D116
D69A:A-C	D78:A-C	DL90:1-3	D123:1-3	D123:1-3	D117:1-4	D117:1-4	D117:1-4
D69	D78A	DL90A	D123A	D123A	D117A	D117A	D117A
D70	D79	DL91	D124	D124	D118	D118	D118
			D125:1-4	D125:1-4	D119:2-5	D119:2-5	D119:2-5
D71:1-4	D80:1-4	DL92:1-4	D126:1-4	D126:1-4	D120:2-5	D120:2-5	D120:2-5
D72:1-4							
D73:1-4	D81:1-4	DL93:1-4	D127:1-4	D127:1-4	D121:2-5	D121:2-5	D121:2-5
D74:1-4	D82:1-4	DL94:1-4	D128:1-4	D128:1-4	D122:2-5	D122:2-5	D122:2-5
D75:1-4							
D76:1-4							
D77:A1-4							
D77:B1-4							
D77:C1-4							
D77:D1-4							
D78:1-4							
D79:1-4	D83:1-4	DL95:1-4	D129:1-4	D129:1-4	D123:2-5	D123:2-5	D123:2-5

TH11	TH21	TH12	TH22	TH13	TH23	TH14	TH24
D80:1-4	D84:1-4	DL96:1-4	D130:1-4	D130:1-4			
D81:1-4							
D82:1-4							
D83:1-4	D85:1-4	DL97:1-4	D131:1-4	D131:1-4	D124:2-5	D124:2-5	D124:2-5
D84:1-3	D86:1-3	DL98:1-3	D132:1-3	D132:1-3	D125:2-4	D125:2-4	D125:2-4
D85:1-3							
D86:1-3							
D86A:1-3							
D87:1-3							
D88:A1-3							
D88:B1-3							
D88:C1-3							
D88:D1-3							
D89:A1-3							
D89:B1-3							
D90:1-3							
D91:1-3	D87:1-3	DL99:1-3	D133:1-3	D133:1-3	D126:2-4	D126:2-4	D126:2-4
D92:1-3	D88:1-3	DL100:1-3	D134:1-3	D134:1-3	D127:2-4	D127:2-4	D127:2-4
D93:1-3	D89:1-3	DL101:1-3	D135:1-3	D135:1-3	D128:2-4	D128:2-4	D128:2-4
D94:1-3	D90:1-3	DL102:1-3	D136:1-3	D136:1-3	D129:2-4	D129:2-4	D129:2-4
D94A:1-3	D91:1-3	DL103:1-3	D137:1-3	D137:1-3	D130:2-4	D130:2-4	D130:2-4
D95:A-C	D92:A-C						
D96	D93						
D96LR							
D97:A-F	D94:1-6						
D98	D96						
D98MH							
D99	D95						
D100:A-F	D97:1-6						
D101	D98						
D102:A-F	D99:1-6						
D103							
D104							
			D138A:HR	D138A:HR	D131:HR	D131:HR	D131:HR
			D138A:MN	D138A:MN	D131:MN	D131:MN	D131:MN
			D138B:AP	D138B:AP	D131:AP	D131:AP	D131:AP
			D139	D139	D132	D132	D132
DMST	DSTA	DLSTAT	DSTAT	DSTAT			
E1	E1		E1A	E1A	E1	E1	E1
			E1B	E1B	E1A	E1A	E1A
			E2:HR	E2:HR	E1B	E1B	E1B
			E2:MN	E2:MN	E2:HR	E2:HR	E2:HR
			E2:AP	E2:AP	E2:MN	E2:MN	E2:MN
E2AB:1	E2A:1	{ ES1:1 }	E3:1	E3:1	E2:AP	E2:AP	E2:AP
		{ EL1:1 }			E3:1	E3:1	E3:1
E2AB:2-4	E2A:2-4	{ ES2:2-4 }	E3A:2-4	E3A:2-4	E3:1	E3:1	E3:1
		{ EL2:2-4 }			E3A:2-4	E3A:2-4	E3A:2-4
E3AB:1-4	E3:1-4	{ ES2A:1-4 }	E4:1-4	E4:1-4	E3A:2-4	E3A:2-4	E3A:2-4
		{ EL2A:1-4 }			E4:1-4	E4:1-4	E4:1-4
E4AB:1	E3A:1	{ ES3A:1 }	E5:1	E5:1	E4:1-4	E4:1-4	E4:1-4
		{ EL3A:1 }			E5:1	E5:1	E5:1
E4AB:2-4	E3A:2-4	{ ES3B:2-4 }	E5A:2-4	E5A:2-4	E5:1	E5:1	E5:1
		{ EL3B:2-4 }			E5A:2-4	E5A:2-4	E5A:2-4
E5:M1-4	E4:M1-4	{ ES4:M1-4 }	E6:M1-4	E6:M1-4	E5A:2-4	E5A:2-4	E5A:2-4
		{ EL4:M1-4 }			E6:M1-4	E6:M1-4	E6:M1-4
E5:Y1-4	E4:Y1-4	{ ES4:Y1-4 }	E6:Y1-4	E6:Y1-4	E6:M1-4	E6:M1-4	E6:M1-4
		{ EL4:Y1-4 }			E6:Y1-4	E6:Y1-4	E6:Y1-4
E6:1-4	E5:1-4	{ ES5:1-4 }	E7:1-4	E7:1-4	E6:Y1-4	E6:Y1-4	E6:Y1-4
		{ EL5:1-4 }			E7:1-4	E7:1-4	E7:1-4
E7:1-4	E6:1-4	{ ES6:1-4 }	E8:1-4	E8:1-4	E7:1-4	E7:1-4	E7:1-4
		{ EL6:1-4 }			E8:1-2	E8:1-2	E8:1-2
E8:1-4	E7:1-4	{ ES7:1-4 }	E9:1-2	E9:1-2	E8:1-2	E8:1-2	E8:1-2
		{ EL7:1-4 }			E9:1	E9:1	E9:1
E9:1-4	E8:1-4	{ ES8:1-4 }	E10:1-2	E10:1-2	E9:1	E9:1	E9:1
		{ EL8:1-4 }			E10:1	E10:1	E10:1
E11:1-4	E10A:1-4A	{ ES10A:A1-4 }	E12A:A1-4	E12A:A1-4	E10:1	E10:1	E10:1
		{ EL10A:A1-4 }			E12C:A1-4	E12C:A1-4	E12C:A1-4

TH11	TH21	TH12	TH22	TH13	TH23	TH14	TH24
E10:1-4	E10A:1-4B	{ ES10A:B1-4 EL10A:B1-4 }	E12A:B1-4	E12A:B1-4	E12C:B1-4	E12C:B1-4	E12C:B1-4
E12:1-4	E11:1-4	{ ES11:1-4 EL11:1-4 }	E13:1-4	E13:1-4	E13:1-4	E13:1-4	E13:1-4
E13:1-4	E12:1-4	{ ES12:1-4 EL12:1-4 }	E14:1-4	E14:1-4			
E14:A1-4	E13:A1-4	{ ES13:A1-4 EL13:A1-4 }	E15A:1-4	E15A:1-4	E15A:1-4	E15A:1-4	E15A:1-4
E14:B1-4	E13:B1-4	{ ES13:B1-4 EL13:B1-4 }	E15B:1-4	E15B:1-4	E15B:1-4	E15B:1-4	E15B:1-4
E15:1-4	E14:1-4	{ ES14:1-4 EL14:1-4 }	E16:1-4	E16:1-4	E16:1-4	E16:1-4	E16:1-4
E16:1-4							
E17:A2-4							
E17:B2-4							
E17A:2-4							
E17B:2-4							
E18:M1-4	E15:M1-4	{ ES15:M1-4 EL15:M1-4 }	E17:M1-4	E17:M1-4	E17:M1-4	E17:M1-4	E17:M1-4
E18:Y1-4	E15:Y1-4	{ ES15:Y1-4 EL15:Y1-4 }	E17:Y1-4	E17:Y1-4	E17:Y1-4	E17:Y1-4	E17:Y1-4
E18:B1-4	E15:B1-4	{ ES15:B1-4 EL15:B1-4 }	E17:B1-4	E17:B1-4	{ E17:A1-4 E17:B1-4 }	{ E17:A1-4 E17:B1-4 }	E17:A1-4
E19:1-4	E16:1-4	{ ES16:1-3 EL16:1-4 }	E18:1-4	E18:1-4	E18:1-4	E18:1-4	E18:1-4
E20:1-2	E17:1-2	EL17:5-6	E19:5-6	E19:5-6	E19:5-6	E19:5-6	E19:5-6
E21:1-2							
E22:1-2	E18:1-2	EL18:5-6	E20:5-6	E20:5-6	E20:5-6	E20:5-6	E20:5-6
E23:M1-2	E19:1-2	EL19:5-6	E21:5-6	E21:5-6	E21:5-6	E21:5-6	E21:5-6
E23:Y1-2	E20:M1-2	EL20:M5-6	E22:M5-6	E22:M5-6	E22:M5-6	E22:M5-6	E22:M5-6
E24:1	E20:Y1-2	EL20:Y5-6	E22:Y5-6	E22:Y5-6	E22:Y5-6	E22:Y5-6	E22:Y5-6
E25:1-2	E21:1-2	EL21:5-6	E23:5-6	E23:5-6	E23:5-6	E23:5-6	E23:5-6
E26:1-2	E22:1-2	EL22:5-6	E24:5-6	E24:5-6			
E27:1-2	E23:1-2	EL23:5-6					
E29:1-2	E24:1-2	EL24:5-6					
E28:1-2	E26A:1A	EL26A:A5-6	E26A:A5-6	E26A:A5-6			
E30:1-2	E26A:1B	EL26A:B5-6	E26A:B5-6	E26A:B5-6			
E31:1-2	E27:1-2	EL27:5-6	E27:5-6	E27:5-6	E24:5-6	E24:5-6	E24:5-6
E32:A1-2	E28:1-2	EL28:5-6	E28:5-6	E28:5-6			
E32:B1-2	E29:A1-2	EL29:A5-6	E29A:5-6	E29A:5-6	E26A:5-6	E26A:5-6	E26A:5-6
E33:1-2	E29:B1-2	EL29:B5-6	E29B:5-6	E29B:5-6	E26B:5-6	E26B:5-6	E26B:5-6
E34:1-2	E30:1-2	EL30:5-6	E30:5-6	E30:5-6	E27:5-6	E27:5-6	E27:5-6
E35:A1-2							
E35:B1-2							
E35A:1-2							
E35B:1-2							
E36:M1-2	E31:M1-2	EL31:M5-6	E31:M5-6	E31:M5-6	E28:M5-6	E28:M5-6	E28:M5-6
E36:Y1-2	E31:Y1-2	EL31:Y5-6	E31:Y5-6	E31:Y5-6	E28:Y5-6	E28:Y5-6	E28:Y5-6
E36:B1-2	E31:B1-2	{ EL31:B5-6 EL31:A5 }	E31:B5-6	E31:B5-6	E28:A5-6 E28:B5-6	E28:A5-6 E28:B5-6	E28:A5-6
E37:1	E31A:1	EL31:A5	E32:5	E32:5	E29:5	E29:5	E29:5
E38	E32	{ ES17 EL32 }	E33	E33	E30	E30	E30
E39	E33	{ ES18 EL33 }	E34	E34	E31	E31	E31
E40	E34	{ ES19 EL34 }	E35	E35	E32	E32	E32
E41	E35	{ ES20 EL35 }	E36	E36	E33	E33	E33
			E37:HR E37:MN E37:AP ESTAT	E37:HR E37:MN E37:AP ESTAT	E34:HR E34:MN E34:AP	E34:HR E34:MN E34:AP	E34:HR E34:MN E34:AP
EMST	ESTA	{ ESSTAT ELSTAT }					
F1	F1		F1A F1B F2:HR F2:MN	F1A F1B F2:HR F2:MN	F1A F1B F2:HR F2:MN	F1A F1B F2:HR F2:MN	F1A F1B F2:HR F2:MN

TH11	TH21	TH12	TH22	TH13	TH23	TH14	TH24
F2AB:1	F2A:1	{ FS1:1 }	F2:AP F3:1	F2:AP F3:1	F2:AP F3:1	F2:AP F3:1	F2:AP F3:1
F2AB:2-4	F2A:2-4	{ FL1:1 } { FS2:2-4 } { FL2:2-4 }	F3A:2-4	F3A:2-4	F3A:2-4	F3A:2-4	F3A:2-4
F3AB:1-4	F3:1-4	{ FS2A:1-4 } { FL2A:1-4 }	F4:1-4	F4:1-4	F4:1-4	F4:1-4	F4:1-4
F4AB:1	F3A:1	{ FS3A:1 } { FL3A:1 }	F5:1	F5:1	F5:1	F5:1	F5:1
F4AB:2-4	F3A:2-4	{ FS3B:2-4 } { FL3B:2-4 }	F5A:2-4	F5A:2-4	F5A:2-4	F5A:2-4	F5A:2-4
F5:M1-4	F4:M1-4	{ FS4:M1-4 } { FL4:M1-4 }	F6:M1-4	F6:M1-4	F6:M1-4	F6:M1-4	F6:M1-4
F5:Y1-4	F4:Y1-4	{ FS4:Y1-4 } { FL4:Y1-4 }	F6:Y1-4	F6:Y1-4	F6:Y1-4	F6:Y1-4	F6:Y1-4
F6:1-4	F5:1-4	{ FS5:1-4 } { FL5:1-4 }	F7:1-4	F7:1-4	F7:1-4	F7:1-4	F7:1-4
F7:1-4	F6:1-4	{ FS6:1-4 } { FL6:1-4 }	F8:1-4	F8:1-4	F8:1-2	F8:1-2	F8:1-2
F8:1-4	F7:1-4	{ FS7:1-4 } { FL7:1-4 }	F9:1-2	F9:1-2	F9:1	F9:1	F9:1
F9:1-4	F8:1-4	{ FS8:1-4 } { FL8:1-4 }	F10:1-2	F10:1-2	F10:1	F10:1	F10:1
F11:1-4	F10A:1-4A	{ FS10A:A1-4 } { FL10A:A1-4 }	F12A:A1-4	F12A:A1-4	F12C:A1-4	F12C:A1-4	F12C:A1-4
F10:1-4	F10A:1-4B	{ FS10A:B1-4 } { FL10A:B1-4 }	F12A:B1-4	F12A:B1-4	F12C:B1-4	F12C:B1-4	F12C:B1-4
F12:1-4	F11:1-4	{ FS11:1-4 } { FL11:1-4 }	F13:1-4	F13:1-4	F13:1-4	F13:1-4	F13:1-4
F13:1-4	F12:1-4	{ FS12:1-4 } { FL12:1-4 }	F14:1-4	F14:1-4			
F14:A1-4	F13:A1-4	{ FS13:A1-4 } { FL13:A1-4 }	F15A:1-4	F15A:1-4	F15A:1-4	F15A:1-4	F15A:1-4
F14:B1-4	F13:B1-4	{ FS13:B1-4 } { FL13:B1-4 }	F15B:1-4	F15B:1-4	F15B:1-4	F15B:1-4	F15B:1-4
F15:1-4	F14:1-4	{ FS14:1-4 } { FL14:1-4 }	F16:1-4	F16:1-4	F16:1-4	F16:1-4	F16:1-4
F16:1-4							
F17:A2-4							
F17:B2-4							
F17A:2-4							
F17B:2-4							
F18:M1-4	F15:M1-4	{ FS15:M1-4 } { FL15:M1-4 }	F17:M1-4	F17:M1-4	F17:M1-4	F17:M1-4	F17:M1-4
F18:Y1-4	F15:Y1-4	{ FS15:Y1-4 } { FL15:Y1-4 }	F17:Y1-4	F17:Y1-4	F17:Y1-4	F17:Y1-4	F17:Y1-4
F18:B1-4	F15:B1-4	{ FS15:B1-4 } { FL15:B1-4 }	F17:B1-4	F17:B1-4	{ F17:A1-4 } { F17:B1-4 }	{ F17:A1-4 } { F17:B1-4 }	F17:A1-4
F19:1-4	F16:1-4	{ FS16:1-3 } { FL16:1-4 }	F18:1-4	F18:1-4	F18:1-4	F18:1-4	F18:1-4
F20:1-2	F17:1-2	FL17:5-6	F19:5-6	F19:5-6	F19:5-6	F19:5-6	F19:5-6
F21:1-2							
F22:1-2	F18:1-2	FL18:5-6	F20:5-6	F20:5-6	F20:5-6	F20:5-6	F20:5-6
F23:M1-2	F19:1-2	FL19:5-6	F21:5-6	F21:5-6	F21:5-6	F21:5-6	F21:5-6
F23:Y1-2	F20:M1-2	FL20:M5-6	F22:M5-6	F22:M5-6	F22:M5-6	F22:M5-6	F22:M5-6
F24:1	F20:Y1-2	FL20:Y5-6	F22:Y5-6	F22:Y5-6	F22:Y5-6	F22:Y5-6	F22:Y5-6
F25:1-2	F21:1-2	FL21:5-6	F23:5-6	F23:5-6	F23:5-6	F23:5-6	F23:5-6
F26:1-2	F22:1-2	FL22:5-6	F24:5-6	F24:5-6			
F27:1-2	F23:1-2	FL23:5-6					
F29:1-2	F24:1-2	FL24:5-6					
F28:1-2	F26A:1A	FL26A:A5-6	F26A:A5-6	F26A:A5-6			
F30:1-2	F26A:1B	FL26A:B5-6	F26A:B5-6	F26A:B5-6			
F31:1-2	F27:1-2	FL27:5-6	F27:5-6	F27:5-6	F24:5-6	F24:5-6	F24:5-6
F32:A1-2	F28:1-2	FL28:5-6	F28:5-6	F28:5-6			
F32:B1-2	F29:A1-2	FL29:A5-6	F29A:5-6	F29A:5-6	F26A:5-6	F26A:5-6	F26A:5-6
F33:1-2	F29:B1-2	FL29:B5-6	F29B:5-6	F29B:5-6	F26B:5-6	F26B:5-6	F26B:5-6
F34:1-2	F30:1-2	FL30:5-6	F30:5-6	F30:5-6	F27:5-6	F27:5-6	F27:5-6

TH11	TH21	TH12	TH22	TH13	TH23	TH14	TH24
F35:A1-2							
F35:B1-2							
F35A:1-2							
F35B:1-2							
F36:M1-2	F31:M1-2	FL31:M5-6	F31:M5-6	F31:M5-6	F28:M5-6	F28:M5-6	F28:M5-6
F36:Y1-2	F31:Y1-2	FL31:Y5-6	F31:Y5-6	F31:Y5-6	F28:Y5-6	F28:Y5-6	F28:Y5-6
F36:B1-2	F31:B1-2	{ FL31:B5-6	F31:B5-6	F31:B5-6	F28:A5-6	F28:A5-6	F28:A5-6
		{ FL31:B5-6			F28:B5-6	F28:B5-6	
F37:1	F31A:1	FL31:A5	F32:5	F32:5	F29:5	F29:5	F29:5
F38	F32	{ FS17	F33	F33	F30	F30	F30
		{ FL32					
F39	F33	{ FS18	F34	F34	F31	F31	F31
		{ FL33					
F40	F34	{ FS19	F35	F35	F32	F32	F32
		{ FL34					
F41	F35	{ FS20	F36	F36	F33	F33	F33
		{ FL35					
			F37:HR	F37:HR	F34:HR	F34:HR	F34:HR
			F37:MN	F37:MN	F34:MN	F34:MN	F34:MN
			F37:AP	F37:AP	F34:AP	F34:AP	F34:AP
FMST	FSTA	{ FSSTAT	FSTAT	FSTAT			
		{ FLSTAT					
			G1A:HR	G1A:HR	G1:HR	G1:HR	G1:HR
			G1A:MN	G1A:MN	G1:MN	G1:MN	G1:MN
			G1B:AP	G1B:AP	G1:AP	G1:AP	G1:AP
			G2	G2	G2	G2	G2
GINST1	G1						
G2B	G2						
	G5		G3	G3	G3	G3	G3
GINST2	G5A		G4	G4	G4	G4	G4
	G6C:1-14	G8A:1-14					
G6:C1-8	G8B:1-14	G8B:1-14	G6B:1-14	G6B:1-14	G6:1-14	G6:1-14	G6:1-14
			G7	G7	G7	G7	G7
		G9:1-14	G7:3-14	G7:3-14	G7A:3-14	G7A:3-14	G7A:3-14
G6:B1-8	G9:3-14	G10:3-14	G8:3-14	G8:3-14	G8:3-14	G8:3-14	G8:3-14
	G10B:3-14	G11B:3-14	G9:1-14	G9:1-14	G10:1-14	G10:1-14	G10:1-14
	A6A:1-2	A12:1-2					
G8:A1-8	G14A:1-14	{ G14:1-14	G10:1-14	G10:1-14	G9:1-14	G9:1-14	G9:1-14
		{ G3					
G8:B1-8	G14B:1-14	{ G14A:1-14	G10A:1-14	G10A:1-14	G9A:1-14	G9A:1-14	G9A:1-14
		{ G3A					
G8:C1-8	G14C:1-14	{ G14B:1-14					
		{ G3B					
G9:2-8	G15:3-14	G15:3-14	G11:3-14	G11:3-14	G11:3-14	G11:3-14	G11:3-14
G10:2-8	G16:3-14	G16:3-14	G11A:3-14	G11A:3-14			
	G17A:3-14	G17:3-14	G11B:3-14	G11B:3-14			
G11:2-8	G17B:3-14	G17A:3-14	G11C:3-14	G11C:3-14			
G12:1							
G12:2							
G6A:M1-2			G12:M1-2	G12:M1-2			
G2A:M							
G6A:M3-8	G10A:M3-14	G11A:M3-14					
G6A:D1-2			G12:D1-2	G12:D1-2			
G2A:D							
G6A:D3-8	G10A:D3-14	G11A:D3-14					
G6A:Y1-2			G12:Y1-2	G12:Y1-2			
G2A:Y							
G6A:Y3-8	G10A:Y3-14	G11A:Y3-14					
G7:A1-2	G12:1-2	G13:1-2	G13:1-2	G13:1-2	G12:1-2	G12:1-2	G12:1-2
G2C:A	G3	{ G2					
G7:A3-8	G12:3-14	G13:3-14					
G7:B1-2	G13A:1-2	G13A:1-2	G13A:1-2	G13A:1-2	G13:1-2	G13:1-2	G13:1-2
G2C:B	G4	{ G2A					
	G13B:1-2	G13B:1-2					
G7:B3-8	G13A:3-14	G13A:3-14					
	G13B:3-14	G13B:3-14					
G13	G18	G18	G14	G14	G14	G14	G14
	G19	G19	G15	G15	G15	G15	G15
G14	G20	G20	G16	G16	G16	G16	G16
G15	G21	G21	G17	G17	G17	G17	G17

<u>TH11</u>	<u>TH21</u>	<u>TH12</u>	<u>TH22</u>	<u>TH13</u>	<u>TH23</u>	<u>TH14</u>	<u>TH24</u>
G16	G22	G22	G18	G18	G18	G18	G18
G17	G23	G23	G19	G19	G19	G19	G19
G18	G24	G24	G20	G20	G20	G20	G20
G19	G25	G25	G21	G21	G21	G21	G21
	G26	G26	G22	G22	G22	G22	G22
BRDRRENT	G30	G30	G23	G23			
G20:A	G27A	G27:A	G24:A	G24:A	G23:A	G23:A	G23:A
G21:A	G28A	G28:A	G25:A	G25:A	G24:A	G24:A	G24:A
G20:B	G27B	G27:B	G24:B	G24:B	G23:B	G23:B	G23:B
G21:B	G28B	G28:B	G25:B	G25:B	G24:B	G24:B	G24:B
G20:C							
G20:D	G27C	G27:C	G24:C	G24:C	G23:C	G23:C	G23:C
G20:E							
G21:C							
G21:D	G28C	G28:C	G25:C	G25:C	G24:C	G24:C	G24:C
G21:E							
G20:F	G27D	G27:D	G24:D	G24:D	G23:D	G23:D	G23:D
G21:F	G28D	G28:D	G25:D	G25:D	G24:D	G24:D	G24:D
G20:G	G27E	G27:E	G24:E	G24:E	G23:E	G23:E	G23:E
G21:G	G28E	G28:E	G25:E	G25:E	G24:E	G24:E	G24:E
G20:H	G27F	G27:F	G24:F	G24:F	G23:F	G23:F	G23:F
G21:H	G28F	G28:F	G25:F	G25:F	G24:F	G24:F	G24:F
G20:I	G27G	G27:G	G24:G	G24:G	G23:G	G23:G	G23:G
G21:I	G28G	G28:G	G25:G	G25:G	G24:G	G24:G	G24:G
G20:L	G27J	G27:H	G24:H	G24:H	G23:H	G23:H	G23:H
G21:L	G28J	G28:H	G25:H	G25:H	G24:H	G24:H	G24:H
G20:J	G27H	G27:I	G24:I	G24:I	G23:I	G23:I	G23:I
G20:K	G27I						
G21:J	G28H	G28:I	G25:I	G25:I	G24:I	G24:I	G24:I
G21:K	G28I						
G20:M	G27K	G27:J	G24:J	G24:J	G23:J	G23:J	G23:J
G21:M	G28K	G28:J	G25:J	G25:J	G24:J	G24:J	G24:J
G20:N	G27L	G27:K	G24:K	G24:K	G23:K	G23:K	G23:K
G21:N	G28L	G28:K	G25:K	G25:K	G24:K	G24:K	G24:K
G20:O	G27M	G27:L	G24:L	G24:L	G23:L	G23:L	G23:L
G21:O	G28M	G28:L	G25:L	G25:L	G24:L	G24:L	G24:L
G20:P	G27N	G27:M	G24:M	G24:M	G23:M	G23:M	G23:M
G21:P	G28N	G28:M	G25:M	G25:M	G24:M	G24:M	G24:M
G20:Q	G27O	G27:N	G24:N	G24:N	G23:N	G23:N	G23:N
G21:Q	G28O	G28:N	G25:N	G25:N	G24:N	G24:N	G24:N
G20:R	G27P	G27:O	G24:O	G24:O	G23:O	G23:O	G23:O
G21:R	G28P	G28:O	G25:O	G25:O	G24:O	G24:O	G24:O
G20:S	G27Q	G27:P	G24:P	G24:P	G23:P	G23:P	G23:P
G21:S	G28Q	G28:P	G25:P	G25:P	G24:P	G24:P	G24:P
G20:T	G27R	G27:Q	G24:Q	G24:Q	G23:Q	G23:Q	G23:Q
G21:T	G28R	G28:Q	G25:Q	G25:Q	G24:Q	G24:Q	G24:Q
G20:U	G27S	G27:R	G24:R	G24:R	G23:R	G23:R	G23:R
G21:U	G28S	G28:R	G25:R	G25:R	G24:R	G24:R	G24:R
G20:V	G27T	G27:S	G24:S	G24:S	G23:S	G23:S	G23:S
G21:V	G28T	G28:S	G25:S	G25:S	G24:S	G24:S	G24:S
	G29A:1-6	G29A:A-F	G26A:A-F	G26A:A-F	G25A:1-2	G25A:1-2	G25A:1-2
	G29B:1-6	G29B:A-F	G26B:A-F	G26B:A-F	G25B:1-2	G25B:1-2	G25B:1-2
FOODSTMP	G31	G31	G27	G27	G26	G26	G26
STMPCOST	G32	G31A	G27A	G27A	G26A	G26A	G26A
STMPVALU	G33	G31B	G27B	G27B	G26B	G26B	G26B
		G32	G28	G28	G27	G27	
		G33	G29	G29			
NOPETS	G34:A						
DOGS	G34:B	G33A:1					
CATS	G34:C	G33A:2					
HORSES	G34:D	G33A:3					
OTHRPETS	G34:E	G33A:4					
MHHETH1	G35A:A1	G34A:1	G30A:1	G30A:1	G28A:1	G28A:1	G28A:1
MHHETH2	G35A:B1	G34B:1	G30B:1	G30B:1	G28B:1	G28B:1	G28B:1
MHHID	G36:1	G35:1	G31:1	G31:1	G29:1	G29:1	G29:1
MHHRELIG							
FHHETH1	G35A:A2	G34A:2	G30A:2	G30A:2	G28A:2	G28A:2	G28A:2
FHHETH2	G35A:B2	G34B:2	G30B:2	G30B:2	G28B:2	G28B:2	G28B:2
FHHID	G36:2	G35:2	G31:2	G31:2	G29:2	G29:2	G29:2
FHHRELIG							

<u>TH11</u>	<u>TH21</u>	<u>TH12</u>	<u>TH22</u>	<u>TH13</u>	<u>TH23</u>	<u>TH14</u>	<u>TH24</u>
			G32A:HR G32A:MN G32B:AP G33	G32A:HR G32A:MN G32B:AP G33	G30:HR G30:MN G30:AP G31	G30:HR G30:MN G30:AP G31	G30:HR G30:MN G30:AP G31
RESP	GSTA	GSTAT	GSTAT H1A:HR H1A:MN H1B:AP	GSTAT H1A:HR H1A:MN H1B:AP	H1:HR H1:MN H1:AP	H1:HR H1:MN H1:AP	H1:HR H1:MN H1:AP
KNOWEHAP	H1 H2:A1-12 H2:A14 H3 H4:A1-5 H5:A-B H6 H7 H7A:A1-10 H7B:1-3	H1 H1:1-12 H1:TN H3 H4:1-5 H5:A-B H6 H7 H7A:1-10 H7B:1-3 H8 H9:1-8 H9:TN H9A:1-3	H2 H2:1-H3:6 H3:7T H4 H5:1-5 H6 H7 H8 H8A:1-10 H9 H9A:1-8 H9A:9	H2 H2:1-H3:6 H3:7T H4 H5:1-5 H6 H7 H8 H8A:1-10 H9 H9A:1-8 H9A:9	H2 H2:1-H3:6 H3:8 H4 H5:1-5 H5A H6 H7 H7A:1-9 H7A:11 H7B:1-3 H8 H8A:1-8 H8A:10	H2 H2:1-H3:6 H3:8 H4 H5:1-5 H5A H6 H7 H7A:1-9 H7A:11 H7B:1-3 H8 H8A:1-8 H8A:10	H2 H2:1-H3:6 H3:8 H4 H5:1-5 H5A H6 H7 H7A:1-9 H7A:11 H7B:1-3 H8 H8A:1-8 H8A:10
AFFECT	H9 H10:A1-8 H10:A10 H10A:1-3 H11 H12:A1-10 H12:A11 H12:A12 H12A:1-3 H13 H14:A1-10 H14:A12 H14A:1-3	H10 H11:1-8 H11:TN H12 H13:1-8 H13:TN H13A:1-3 H14 H15:1-8 H15:TN H16 H17:1-8 H17:TN H18:1-3	H10 H10A:1-8 H10A:9 H11 H11A:1-8 H11A:9 H12 H12A:1-8 H12A:9 H13 H13A:1-8 H13A:9 H14 H14A:1-8 H14A:9 H15:1 H15:2 H15:3 H15:4 H15:5 H15:6 H15:7 H15:8 H15:9 H15:10 H15:11 H15:12 H15:13 H15:14 H15:15 H15:16-20 H15:21	H10 H10A:1-8 H10A:9 H11 H11A:1-8 H11A:9 H12 H12A:1-8 H12A:9 H13 H13A:1-8 H13A:9 H14 H14A:1-8 H14A:9 H15:1 H15:2 H15:3 H15:4 H15:5 H15:6 } H15:7 } H15:8 H15:9 H15:10 H15:11 H15:12 H15:13 H15:14 H15:15 H15:16-20 H15:21	H10 H10A:1-8 H10A:9 H11 H11A:1-8 H11A:9 H12 H12A:1-8 H12A:9 H13 H13A:1-8 H13A:9 H14 H14A:1-8 H14A:9 H13:1 H13:2 H13:3 H13:4 H13:5 H13:6	H9 H9A-E H9F:1-8 H9F:10 H9 H9A-E H9F:1-8 H9F:10 H10 H10A:1-8 H10A:10 H11 H11A:1-8 H11A:10 H12 H12A:1-8 H12A:10 H13:1 H13:2 H13:3 H13:4 H13:5 H13:6	H9 H9A-E H9F:1-8 H9F:10 H9 H9A-E H9F:1-8 H9F:10 H10 H10A:1-8 H10A:10 H11 H11A:1-8 H11A:10 H12 H12A:1-8 H12A:10 H13:1 H13:2 H13:3 H13:4 H13:5 H13:6
	H15:1-5 H15A:1-3	H19:1-5 H19A:1-3 H20	H15A:1-3	H15A:1-3	H13A:1-3	H13A:1-3	H13A:1-3
		H25	H16 H17 H18	H16 H17 H18	H14 H15 H16	H14 H15 H16	H14 H15 H16

<u>TH11</u>	<u>TH21</u>	<u>TH12</u>	<u>TH22</u>	<u>TH13</u>	<u>TH23</u>	<u>TH14</u>	<u>TH24</u>
	H8		H18A	H18A	H16:A	H16:A	H16:A
	H8A:A1-5	H26:1-5	H18B:1-5	H18B:1-5	H16:B1-5	H16:B1-5	H16:B1-5
			H19	H19	H17	H17	H17
			H19A:1-5	H19A:1-5	H17:A1-5	H17:A1-5	H17:A1-5
			H20	H20	H18	H18	H18
			H20A:1-5	H20A:1-5	H18:A1-5	H18:A1-5	H18:A1-5
			H20B	H20B	H19	H19	H19
	H27:M		H21:M	H21:M	H20:MO	H20:MO	H20:MO
	H27:Y		H21:Y	H21:Y	H20:YR	H20:YR	H20:YR
	H28		H22	H22	H21	H21	H21
			H22A:1-4	H22A:1-4	H21:A1-4	H21:A1-4	H21:A1-4
			H22B	H22B	H21:A6	H21:A6	H21:A6
			H23:1-5	H23:1-5	H22:1-5	H22:1-5	H22:1-5
			H24	H24	H23	H23	H23
			H25:1-5	H25:1-5	H24:1-5	H24:1-5	H24:1-5
			H25A	H25A	H25	H25	H25
			H26:1-5	H26:1-5	H26:1-5	H26:1-5	H26:1-5
			H27	H27	H27	H27	H27
	H29:M		H28:M	H28:M	H28:MO	H28:MO	H28:MO
	H29:Y		H28:Y	H28:Y	H28:YR	H28:YR	H28:YR
			H29	H29	H29	H29	H29
			H30	H30	H30	H30	H30
	H30		H31	H31	H31	H31	H31
	H31:1-5		H31A:1-5	H31A:1-5	H31A:1-5	H31A:1-5	H31A:1-5
			H31B	H31B	H32	H32	H32
	H32:1-5		H32:1-5	H32:1-5	H33:1-5	H33:1-5	H33:1-5
	H33		H33	H33	H34	H34	H34
	H34		H34	H34	H35	H35	H35
	H35:1-5		H34A:1-5	H34A:1-5	H35A:1-5	H35A:1-5	H35A:1-5
	H36		H35	H35	H36	H36	H36
			H35A	H35A	H36A	H36A	H36A
	H37		H35B	H35B	H36B	H36B	H36B
	H37A:1-5						
	H38:M						
	H38:Y						
	H39	H36		H36	H37	H37	H37
	H40						
	H41	H37		H37	H38	H38	H38
	H42	H38		H38	H39	H39	H39
	H43	H39		H39	H40	H40	H40
	H44	H40		H40	H41	H41	H41
	H45	H41		H41	H42	H42	H42
		H41A		H41A			
	H45A	H41B		H41B			
	H45B	H41C		H41C			
	H45C	H41D		H41D			
	H45D	H41E		H41E			
					H43	H43	H43
					H44	H44	H44
					H45	H45	H45
					H46	H46	H46
					H47:A-H	H47:A-H	H47:A-H
					H48	H48	H48
					H49:A-D	H49:A-D	H49:A-D
					H50:A-D	H50:A-D	H50:A-D
	H46	H42	H42	H42	H51	H51	H51
	H47	H43	H43	H43	H52	H52	H52
		H44	H44	H44	H53	H53	H53
		H45	H45	H45	H54	H54	H54
		H46	H46	H46	H55	H55	H55
		H47	H47	H47	H56	H56	H56
		H48	H48	H48	H57	H57	H57
		H49:1-8	H49:1-8	H49:1-8	H58:1-8	H58:1-8	H58:1-8
		H50	H50	H50	H59	H59	H59
		H51	H51	H51	H63	H63	H63
		H52	H52	H52	H60	H60	H60
		H53	H53	H53	H61	H61	H61
		H53A:1-6	H53A:1-6	H53A:1-6			

<u>TH11</u>	<u>TH21</u>	<u>TH12</u>	<u>TH22</u>	<u>TH13</u>	<u>TH23</u>	<u>TH14</u>	<u>TH24</u>
					H62	H62	H62
					H64	H64	H64
			H54	H54	H65	H65	H65
			H54A	H54A	H65A	H65A	H65A
	H48		H55	H55	H66	H66	H66
			H56	H56	H67	H67	H67
	H49		H57	H57	H68	H68	H68
	H50		H58	H58	H69	H69	H69
	H51:A-L		H59:1-6	H59:1-6	H70:1-6	H70:1-6	H70:1-6
			H60	H60	H71	H71	H71
			H60A	H60A	H72	H72	H72
			H60B:1-5	H60B:1-5	H72A:1-5	H72A:1-5	H72A:1-5
	H52		H61	H61	H73	H73	H73
	H53:1-5		H61A:1-5	H61A:1-5	H73A:1-5	H73A:1-5	H73A:1-5
			H62	H62	H74	H74	H74
			H63:1-5	H63:1-5	H75:1-5	H75:1-5	H75:1-5
			H64	H64	H76	H76	H76
			H65	H65	H77	H77	H77
			H66	H66	H78	H78	H78
			H67	H67	H79	H79	H79
			H68	H68	H80	H80	H80
			H68A:1-5	H68A:1-5	H80A:1-5	H80A:1-5	H80A:1-5
			H69	H69	H81	H81	H81
			H69A:1-5	H69A:1-5	H81A:1-5	H81A:1-5	H81A:1-5
			H70	H70	H82	H82	H82
	H54:M		H71:M	H71:M	H83:MO	H83:MO	H83:MO
	H54:Y		H71:Y	H71:Y	H83:YR	H83:YR	H83:YR
			H72	H72	H84	H84	H84
			H72A:M	H72A:M	H85:MO	H85:MO	H85:MO
			H72A:Y	H72A:Y	H85:YR	H85:YR	H85:YR
	H55		H73	H73	H86	H86	H86
	H56:A		H74A	H74A	H87:A	H87:A	H87:A
	H56:B		H74B	H74B	H87:B	H87:B	H87:B
	H56:C				H87:C	H87:C	H87:C
					H88	H88	H88
	H60		H75	H75	H88A:1-5	H88A:1-5	H88A:1-5
	H61:1-4		H75A:1-4	H75A:1-4	H89	H89	H89
	H57		H76	H76			
	H58						
	H59		H77	H77	H90	H90	H90
	H62		H78	H78	H91	H91	H91
	H63						
	H64		H79	H79	H92	H92	H92
	H65:1-5		H79A:1-5	H79A:1-5	H92A:1-5	H92A:1-5	H92A:1-5
	H66		H80	H80	H93	H93	H93
	H67		H81	H81	H94	H94	H94
	H68:1-10		H82:1-10	H82:1-10	H95:1-10	H95:1-10	H95:1-10
	H69		H83	H83	H96	H96	H96
	H70		H84	H84	H97	H97	H97
			H85	H85	H98	H98	H98
	H71						
	H72:1-6						
	H73						
	H74						
	H75						
	H76						
	H77		H86	H86	H99	H99	H99
	H78		H87	H87	H100	H100	H100
			H88:1-3	H88:1-3			
			H89	H89	H101	H101	H101
	H79		H90	H90	H102	H102	H102
	H80		H90A	H90A	H102A	H102A	H102:A
	H81:A		H91:1	H91:1	H103:1	H103:1	H103:1
	H81:B		H91:2	H91:2	H103:2	H103:2	H103:2
	H81:C		H91:3	H91:3	H103:3	H103:3	H103:3
	H81:D		H91:4	H91:4	H103:4	H103:4	H103:4
	H81:E		H91:5	H91:5	H103:5	H103:5	H103:5
	H81:F		H91:6	H91:6	H103:6	H103:6	H103:6
	H81:G		H91:7	H91:7	H103:7	H103:7	H103:7

<u>TH11</u>	<u>TH21</u>	<u>TH12</u>	<u>TH22</u>	<u>TH13</u>	<u>TH23</u>	<u>TH14</u>	<u>TH24</u>
		H81A:1-3 H82 H83 H84:A-C H85	H91A:1-3	H91A:1-3	H103:8 H103A:1-3	H103:8 H103A:1-3	H103:8 H103A:1-3
		H86 H87 H88A H88B H88D H88E	H92 H92A	H92 H92A	H104 H105	H104 H105	H104 H105
	H16B	H86 H87 H88A H88B	H93	H93	H106	H106	H106
	H16D	H88D H88E	H94:A H94:B H94:C	H94:A H94:B H94:C	H107:A H107:B H107:C	H107:A H107:B H107:C	H107:A H107:B H107:C
	H16A	H88J H88F	H94:D H94:E	H94:D H94:E	H107:D H107:E	H107:D H107:E	H107:D H107:E
	H16C	H88C H88I	H94:F H94:G H94:H	H94:F H94:G H94:H	H107:F H107:G H107:H	H107:F H107:G H107:H	H107:F H107:G H107:H
	H16E	H88H	H94:I H94:J	H94:I H94:J	H107:I H107:J	H107:I H107:J	H107:I H107:J
		H88G H89 H90 H91	H95 H96	H95 H96	H108 H109	H108 H109	H108 H109
	H18 H19 H20 H20A:1-5 H21 H22 H22A:1-5 H22A:7 H23						
GHREN GMNEN GAPEN	HHREN HMNEN HAPEN	HHREN HMNEN HAPEN	H98A:HR H98A:MN H98B:AP H99	H98A:HR H98A:MN H98B:AP H99	H111:HR H111:MN H111:AP H112	H111:HR H111:MN H111:AP H112	H111:HR H111:MN H111:AP H112
	H23A	H96 H97 H98	H100 H101 H101A	H100 H101 H101A	H113 H114 H114:A	H113 H114 H114:A	H113 H114 H114:A
MHHRACE EHHRACE INCREP GMST	H26 H27 H28 HSTA	H99 H100 H101 HSTAT	H102 H103 H104 HSTAT	H102 H103 H104 HSTAT	H115 H116	H115 H116	H115 H116

Unit Record Folder

<u>TH11</u>	<u>TH21</u>	<u>TH12</u>	<u>TH22</u>	<u>TH13</u>	<u>TH23</u>	<u>TH14</u>	<u>TH24</u>
ID1-4 FMO FDA FYR FSTAT	UINID:1-2 UDATE:M UDATE:D UDATE:Y U1 U2:1 U2:2 U2:3 U2:4 U2:5	UINID:1-2 UDATE:M UDATE:D UDATE:Y UCODE U2:1 U2:2 U2:3 U2:4 U2:5	UID1-3 UCDM UCDD UCDY U1FS U2:1 U2:2 U2:3 U2:4 U2:5 U2:6	UID1-3 UCDM UCDD UCDY U1FS U2:1 U2:2 U2:3 U2:4 U2:5 U2:6	UID1-3 UCDM UCDD UCDY U3FS U2:1 U2:2 U2:3 U2:4 U2:5	UID1-3 UCDM UCDD UCDY U3FS U2:1 U2:2 U2:3 U2:4 U2:5	UID1-3 UMO UDA U3FS U2:2 U2:3 U2:4 U2:5 U2:1 U2:6 U2:P U4:1 U4:2
	U3:1 U3:21 U3:22 U3:23	U3:1 U3:2A U3:2B U3:2C	U3:1 U3:2	U3:1 U3:2	U4:1 U4:2	U4:1 U4:2	U4:1 U4:2

<u>TH11</u>	<u>TH21</u>	<u>TH12</u>	<u>TH22</u>	<u>TH13</u>	<u>TH23</u>	<u>TH14</u>	<u>TH24</u>
	U3:24 U3:3 U3:4	U3:2D U3:3A U3:3B U3:4A U3:4B U3:5A U3:5B U3:6	U3:3	U3:3	U4:3	U4:3	U4:3
			U3:4 U3:5	U3:4 U3:5			
NUMATMPT			UAT1-8	UAT1-8	UAT1-8	UAT1-8	UAT1-8
MO1-4	U(1-8):A1	U(1-8)A:A	U(1-8):AM	U(1-8):AM	U(1-8):AM	U(1-8):AM	U(1-8):AMO
DA1-4	U(1-8):A2	U(1-8)A:B	U(1-8):AD	U(1-8):AD	U(1-8):AD	U(1-8):AD	U(1-8):ADT
YR1-4	U(1-8):B	U(1-8)B	U(1-8):BD	U(1-8):BD	U(1-8):BD	U(1-8):BD	U(1-8):BDA
TIME1-4	U(1-8):C1	U(1-8)C:A	U(1-8):C2	U(1-8):C2	U(1-8):CH	U(1-8):CH	U(1-8):CHR
AMPM1-4	U(1-8):C2	U(1-8)C:B	U(1-8):C3	U(1-8):C3	U(1-8):CM	U(1-8):CM	U(1-8):CMN
	U(1-8):C3	U(1-8)C:C	U(1-8):CPM	U(1-8):CPM	U(1-8):CPM	U(1-8):CPM	U(1-8):CAP
	U(1-8):D	U(1-8)D	U(1-8):DPT	U(1-8):DPT	U(1-8):DPT	U(1-8):DPT	U(1-8):DPT
STAT1-4	U(1-8):E	U(1-8)E	U(1-8):E	U(1-8):E	U(1-8):E	U(1-8):E	U(1-8):E
			U(1-8):G	U(1-8):G	U(1-8):G	U(1-8):G	U(1-8):G

Validation Form

<u>TH11</u>	<u>TH21</u>	<u>TH12</u>	<u>TH22</u>	<u>TH13</u>	<u>TH23</u>	<u>TH14</u>	<u>TH24</u>
TVLEMPID } MHVLEMPI } RVLEMPID }	VLINID	VLINID	VLIIIDA-B	VLIIIDA-B	VLINT	VLINT	VLINT
	VLVID	VLVID	VLVIDA-B	VLVIDA-B	VLVAL	VLVAL	VLVAL
					VLSS	VLSS	VLSS
TVLSTATU } MHVLSTAT } RVLSTATU }	VLSTAT:2	VLSTAT:2	VLFS	VLFS	VLFS	VLFS	VLFS
					VLA:1-8	VLA:1-8	VLA:1-7 VLFA
	VLCONT	VLCONT	VLT1-10	VLT1-10	VLTY:1-8	VLTY:1-8	VLTY:1-7 VLFTY
TVLMONTH } MHVLMONT } RVLMNTH }	VL:M	VLD:M	VLM1-10	VLM1-10	VLMO:1-8	VLMO:1-8	VLMO:1-7 VLFMO
TVLDAY } MHVLDAY } RVLDAY }	VL:D	VLD:D	VLD1-10	VLD1-10	VLD:1-8	VLD:1-8	VLD:1-7 VLFDA
TVLYR } MHVLYEAR } RVLYEAR }	VL:Y	VLD:Y					
	VLHRBG	VLHRBG			VL1:HR	VL1:HR	VL1:HR
	VLMNGB	VLMNGB			VL1:MN	VL1:MN	VL1:MN
	VLAPBG	VLAMPB			VL1:AP	VL1:AP	VL1:AP
					VL2	VL2	VL2
							VL3
							VL4
					VL3	VL3	VL5
							VL5A
	VLSTAT:1		VL1	VL1	VL4	VL4	VL6
			VL2A	VL2A	VL5	VL5	
TVLQ1 } MHVLQ1 } RVLQ1 }	VL1		VL2B	VL2B	VL6	VL6	VL7
			VL3	VL3	VL7	VL7	VL8
			VL4	VL4	VL8	VL8	VL9
			VL4A	VL4A	VL8A	VL8A	VL9:A
			VL4A1	VL4A1	VL8A1	VL8A1	VL9A1
			VL4B	VL4B	VL8B	VL8B	VL9:B

<u>TH11</u>	<u>TH21</u>	<u>TH12</u>	<u>TH22</u>	<u>TH13</u>	<u>TH23</u>	<u>TH14</u>	<u>TH24</u>
TVLQ2 MHVLQ2 RVLQ2	VL2		VL5 VL5A	VL5 VL5A	VL9 VL9A	VL9 VL9A	VL10 VL10:A
TVLQ3 MHVLQ3 RVLQ3							
	VL3	VL1:1 VL1:2	VL6 VL6A	VL6 VL6A			
	VL4	VL1:A VL2:1 VL2:2	VL7 VL7A	VL7 VL7A			
	VL5	VL2:A VL3:1 VL3:2	VL8 VL8A	VL8 VL8A			
	VL5A	VL3:A VL4:1 VL4:2	VL9 VL9A	VL9 VL9A			
		VL4:A					
TVLQ4A MHVLQ4A RVLQ4A	VL6:A						
TVLQ4B MHVLQ4B RVLQ4B	VL6:B						
TVLQ4C MHVLQ4C RVLQ4C	VL6:C						
TVLQ4D MHVLQ4D RVLQ4D	VL6:D						
TVLQ4E MHVLQ4E RVLQ4E	VL6:E						
TVLQ4F MHVLQ4F RVLQ4F	VL6:F						
TVLQ4G MHVLQ4G RVLQ4G	VL6:G						
TVLQ5A MHVLQ5A RVLQ5A	VL7:A						
TVLQ5B MHVLQ5B RVLQ5B	VL7:B	VL5:1 VL5:2 VL6:1-2 VL7:1-2	VL10 VL10A VL11 VL11A	VL10 VL10A VL11 VL11A			
TVLQ5C1 MHVLQ5I RVLQ5C	VL7:C1						
TVLQ5C2 MHVLQ5K	VL7:C2						
TVLQ5D1 MHVLQ5J RVLQ5D	VL7:D1	VL8:1	VL12	VL12			
TVLQ5D2 MHVLQ5L	VL7:D2						
TVLQ5E MHVLQ5C RVLQ5E	VL7:E	VL8:2	VL12A	VL12A			

<u>TH11</u>	<u>TH21</u>	<u>TH12</u>	<u>TH22</u>	<u>TH13</u>	<u>TH23</u>	<u>TH14</u>	<u>TH24</u>
TVLQ5F } MHVLQ5D } RVLQ5F } TVLQ5G } MHVLQ5E } RVLQ5G }	VL7:F VL7:G		VL13 VL13A	VL13 VL13A			
TVLQ5I } MHVLQ5G } RVLQ5I } TVLQ5J } MHVLQ5H } RVLQ5J }	VL7:I VL7:J		VL14 VL14A	VL14 VL14A			
TVLQ5H } MHVLQ5F } RVLQ5H }	VL7:H	VL9:1-2 VL10:1 VL10:2 VL11:1 VL11:2 VL12:1 VL12:2 VL13:1-2 VL14:1-2 VL15 VL16	VL15 VL15A VL16 VL16A VL17M VL17Y VL17A VL18 VL18A VL19 VL19A VL20 VL21	VL15 VL15A VL16 VL16A VL17M VL17Y VL17A VL18 VL18A VL19 VL19A VL20 VL21	VL20 VL10:A-E	VL20 VL10:A-E	VL21 VL11:A-D
TVLQ7A } MHVLQ7A } RVLQ7A } TVLQ7B } MHVLQ7B } RVLQ7B } TVLQ7C } MHVLQ7C } RVLQ7C } TVLQ7D } MHVLQ7D } RVLQ7D } TVLQ7E } MHVLQ7E } RVLQ7E } TVLQ7F } MHVLQ7F } RVLQ7F } TVLQ7G } MHVLQ7G } RVLQ7G }	VL9:A VL9:B VL9:C VL9:D VL9:E VL9:F VL9:G	VL18:A VL18:B VL18:C VL18:D VL18:E VL18:F VL18:G	VL23:1 VL23:2 VL23:3 VL23:4 VL23:5 VL23:6 VL23:7 VL23:8	VL23:1 VL23:2 VL23:3 VL23:4 VL23:5 VL23:6 VL23:7 VL23:8	VL11:A VL11:B VL11:C VL11:D VL11:E VL11:F VL11:G VL11:H VL11:I	VL11:A VL11:B VL11:C VL11:D VL11:E VL11:F VL11:G VL11:H VL11:I	VL12:A VL12:B VL12:C VL12:D VL12:E VL12:F VL12:G VL12:H VL12:I
TVLQ8 } MHVLQ8 } RVLQ8 }	VL10 VL11 VL12	VL19 VL20 VL21	VL24 VL25 VL26	VL24 VL25 VL26	VL12 VL13 VL14 VL15 VL17 VL18 VL19:A-D VL21:HR VL21:MN VL21:AP	VL12 VL13 VL14 VL15 VL17 VL18 VL19:A-D VL21:HR VL21:MN VL21:AP	VL13 VL14 VL15 VL16 VL18 VL19 VL20:A-D VL22:HR VL22:MN VL22:AP

Refusal/Breakoff Form

<u>TH11</u>	<u>TH21</u>	<u>TH12</u>	<u>TH22</u>	<u>TH13</u>	<u>TH23</u>	<u>TH14</u>	<u>TH24</u>
TRSTAT	{ RCONT:A RCONT:B	RCONT:A RCONT:B RCONT:C	ROU1 ROU2 ROU3	ROU1 ROU2 ROU3	RCQ1 RCQ2 RCQ3	RCQ1 RCQ2 RCQ3	RCQ1 RCQ2 RCQ3
TR12A:1 TR27A:1	R12:A1 R30:A1	R12:A1 } R30:A1 }	R1 R1B1 R1B2 R1B3 R1B4 R1B8	R1 R1B1 R1B2 R1B3 R1B4 R1B8	R1:1-3 R1C:1-3	R1:1-3 R1C:1-3	R1:1-2 R1C:1-2
TR12B:1 TR27B:1 TR12C:1 TR27C:1	R12:B1 R30:B1 R12:C1 R30:C1	R12:B1 } R30:B1 } R12:C1 } R30:C1 }	R1C R1D	R1C R1D	R1A:1-3 R1B:1-3	R1A:1-3 R1B:1-3	R1A:1-2 R1B:1-2
TR12A:2 TR27A:2	R12:A2 R30:A2	R12:A2 } R30:A2 }	R2 R2B1 R2B2 R2B3 R2B4 R2B8	R2 R2B1 R2B2 R2B3 R2B4 R2B8	R1D:1-3 R2:1-3 R2C:1-3	R1D:1-3 R2:1-3 R2C:1-3	R1D:1-2 R2:1-2 R2C:1-2
TR12B:2 TR27B:2 TR12C:2 TR27C:2	R12:B2 R30:B2 R12:C2 R30:C2	R12:B2 } R30:B2 } R12:C2 } R30:C2 }	R2C R2D	R2C R2D	R2A:1-3 R2B:1-3	R2A:1-3 R2B:1-3	R2A:1-2 R2B:1-2
TR6:1 TR21:1 TR6:2-3 TR21:2-3	R6:A R24:A	R6:A R24:A	R4:1 R22:1	R4:1 } R22:1 }	R2D:1-3 R3:1-3 R4A:1-3	R2D:1-3 R3:1-3 R4A:1-3	R2D:1-2 R3:1-2 R4A:1-2
TR6:4 TR21:4 TR6:5 TR21:5 TR6:6 TR21:6 TR6:7 TR21:7 TR6:8 TR21:8 TR6:9 TR21:9 TR6:10 TR21:10 TR6:11 TR21:11 TR6:12 TR21:12 TR6:13 TR21:13 TR6:14 TR21:14	R6:B R24:B R6:C R24:C R6:D R24:D R6:E R24:E R6:F R24:F R6:G R24:G R6:H R24:H R6:I R24:I R6:J R24:J R6:K R24:K R6:L R24:L	R6:B R24:B R6:C R24:C R6:D R24:D R6:E R24:E R6:F R24:F R6:G R24:G R6:H R24:H R6:I R24:I R6:J R24:J R6:K R24:K R6:L R24:L	R4:2 R22:2 R4:3 R22:3 R4:4 R22:4 R4:5 R22:5 R4:6 R22:6 R4:7 R22:7 R4:8 R22:8 R4:9 R22:9 R4:10 R22:10 R4:88 R22:88 R4:99 R22:99	R4:2 } R22:2 } R4:3 } R22:3 } R4:4 } R22:4 } R4:5 } R22:5 } R4:6 } R22:6 } R4:7 } R22:7 } R4:8 } R22:8 } R4:9 } R22:9 } R4:10 } R22:10 } R4:88 } R22:88 } R4:99 } R22:99 }	R4B:1-3 R4D:1-3 R4F:1-3 R4G:1-3 R4I:1-3 R4J:1-3 R4H:1-3 R4C:1-3 R4E:1-3 R4N:1-3 R4O:1-3	R4B:1-3 R4D:1-3 R4F:1-3 R4G:1-3 R4I:1-3 R4J:1-3 R4H:1-3 R4C:1-3 R4E:1-3 R4N:1-3 R4O:1-3	R4B:1-2 R4D:1-2 R4F:1-2 R4G:1-2 R4I:1-2 R4J:1-2 R4H:1-2 R4C:1-2 R4E:1-2 R4N:1-2 R4O:1-2
TR7 TR22 TR9:1 TR24:1 TR9:2 TR24:2	R7 R25 R9:A R27:A R9:B R27:B	R7 R25 R9:A R27:A R9:B R27:B	R5 R23 R6:1 R24:1 R6:2 R24:2	R5 } R23 } R6:1 } R24:1 } R6:2 } R24:2 }	R5:1-3 R6A:1-3 R6B:1-3 R6C:1-3 R6D:1-3	R5:1-3 R6A:1-3 R6B:1-3 R6C:1-3 R6D:1-3	R5:1-2 R6A:1-2 R6B:1-2 R6C:1-2 R6D:1-2
TR9:3 TR24:3	R9:C R27:C	R9:C R27:C	R6:3 R24:3	R6:3 } R24:3 }	R6D:1-3	R6D:1-3	R6D:1-2

TH11	TH21	TH12	TH22	TH13	TH23	TH14	TH24
TR9:4 TR24:4	R9:D R27:D R9:E R27:E	R9:D R27:D R9:E R27:E	R6:4 R24:4 R6:5 R24:5	R6:4 } R24:4 } R6:5 } R24:5 }	R6E:1-3 R6H:1-3 R6F:1-3 R6G:1-3 R6I:1-3 R6J:1-3 R6K:1-3 R7:1-3	R6E:1-3 R6H:1-3 R6F:1-3 R6G:1-3 R6I:1-3 R6J:1-3 R6K:1-3 R7:1-3	R6E:1-2 R6H:1-2 R6F:1-2 R6G:1-2 R6I:1-2 R6J:1-2 R6K:1-2 R7:1-2
TR9:5 TR24:5	R9:F R27:F	R9:F R27:F	R6:6 R24:6	R6:6 } R24:6 }	R9:1-3 R10M:1-3 R10Q:1-3 R10L:1-3 R10S:1-3 R12:1-3	R9:1-3 R10M:1-3 R10Q:1-3 R10L:1-3 R10S:1-3 R12:1-3	R9:1-2 R10M:1-2 R10Q:1-2 R10L:1-2 R10S:1-2 R12:1-2
TR9:6 TR24:6	R9:G R27:G	R9:G R27:G	R6:7 R24:7	R6:7 } R24:7 }	R13:1-3 R14:1-3 R15:1-3 R11:1-3	R13:1-3 R14:1-3 R15:1-3 R11:1-3	R13:1-2 R14:1-2 R15:1-2 R11:1-2
TR9:7 TR24:7	R9:H R27:H	R9:H R27:H	R6:8 R24:8	R6:8 } R24:8 }			
TR9:8 TR24:8	R9:I R27:I	R9:I R27:I	R6:9 R24:9	R6:9 } R24:9 }			
TR10 TR25	R10 R28	R10 R28	R7 R25	R7 } R25 }			
TR1 TR16 TR2 TR17 TR3 TR18 TR4 TR19 TR5 TR20 TR13 TR28	R1 R19 R2 R20 R3 R21 R4 R22 R5 R23 R13 R31 R14 R15 R16 R17	R1 R19 R2 R20 R3 R21 R4 R22 R5 R23 R13 R31 R14 R15 R16 R17	R9 R27 R10 R28 R11 R29 R12 R30 R13 R31 R14 R32	R9 } R27 } R10 } R28 } R11 } R29 } R12 } R30 } R13 } R31 } R14 } R32 }			
TR14A TR14B TR15A TR15B	R18:A R18:B	R18:A R18:B	R16A R16B	R16A R16B	R16:1-3 R17A:1-3 R17B:1-3 R17C:1-3 R19M:1-3	R16:1-3 R17A:1-3 R17B:1-3 R17C:1-3 R19M:1-3	R16:1-2 R17A:1-2 R17B:1-2 R17C:1-2 R19M:1-2
TR(1-2)MO TR(1-2)DA TR(1-2)YR	{ R:M1 } { RM:2 } { R:D1 } { RD:2 } { R:Y1 } { RY:2 }	RD:M1-2 RD:D1-2 RD:Y1-2	{ R17M } { R33M } { R17D } { R33D }	R17M } R33M } R17D } R33D }			
TR1TIME } TR2TIME }	{ RHR:1-2 } { RMN:1-2 }	RHREN:1-2 RMNEN:1-2	{ R18HR } { R34HR } { R18MN } { R34MN }	R18HR } R34HR } R18MN } R34MN }	R20HR:1-3 R20MN:1-3 R20AP:1-3	R20HR:1-3 R20MN:1-3 R20AP:1-3	R20HR:1-2 R20MN:1-2 R20AP:1-2
TR(1-2)AMPM	RAP:1-2	RAPEN:1-2	{ R18AP } { R34AP }	R18AP } R34AP }			
TR(1-2)INID	RID:1-2	{ RINID:1-2A } { RINID:1-2B }	R19B R35B	R19B } R35B }	R21:1-3	R21:1-3	R21:1-3
		R20 R32 R33 R34:A R34:B R34:C R35 R37:A-C1 R37:A-C2 R38 R39 R40 R41 R42	R20 R36 R37 R38A R38B R38C R39 R41:1A-C R41:2A-C R42 R43	R20 R36 R37 R38A R38B R38C R39 R41:1A-C R41:2A-C R42 R43			

<u>TH11</u>	<u>TH21</u>	<u>TH12</u>	<u>TH22</u>	<u>TH13</u>	<u>TH23</u>	<u>TH14</u>	<u>TH24</u>
			R44A-B	R44A-B			
		RD:M3	R45M	R45M			
		RD:D3	R45D	R45D			
		RD:Y3					
		RHREN:3	R46HR	R46HR			
		RMNEN:3	R46MN	R46MN			
		RAPEN:3	R46AP	R46AP			
		RINID:3A }	R47B	R47B			
		RINID:3B }					

Data Retrieval Form

<u>TH11</u>	<u>TH21</u>	<u>TH12</u>	<u>TH22</u>	<u>TH13</u>	<u>TH23</u>	<u>TH14</u>	<u>TH24</u>
					DRIID	DRIID	DRIID
					DRDID:1-2	DRDID:1-2	DRDID:1-2
							DRRC
					DRA:1-8	DRA:1-8	{ DRA:1-7
							DRFA
					DRMO:1-8	DRMO:1-8	{ DRMO:1-7
							DRFMO
					DRDA:1-8	DRDA:1-8	{ DRDA:1-7
							DRFDA
					DRTY:1-8	DRTY:1-8	{ DRTY:1-7
							DRFTY
					DR1:HR	DR1:HR	DR1:HR
					DR1:MN	DR1:MN	DR1:MN
					DR1:AP	DR1:AP	DR1:AP
							DR2
							DR3
					DR3:1-5	DR3:1-5	
					DR4	DR4	DR4:1-4
							DR5
							DR5A
					DR5	DR5	
					DR6:1-9	DR6:1-9	DR6:1-9
					DR7	DR7	DR7
					DR8	DR8	DR8
					DR9:HR	DR9:HR	DR9:HR
					DR9:MN	DR9:MN	DR9:MN
					DR9:AP	DR9:AP	DR9:AP

Vacancy Form

<u>TH11</u>	<u>TH21</u>	<u>TH12</u>	<u>TH22</u>	<u>TH13</u>	<u>TH23</u>	<u>TH14</u>	<u>TH24</u>
TVSTAT	VCCONT	VCCONT					
TV1	VC2	VC1	V1	V1	V1	V1	V1
TV2	VC1	VC2					
TV3:1-3							
TV4	VC3	VC3	V2	V2	V2	V2	V2
	VC4	VC4	V3	V3	V3	V3	V3
	VC5	VC5	V4	V4	V4	V4	V4
	VC6	VC6	V5	V5	V5	V5	V5
	VC7	VC7	V6	V6	V6	V6	V6
	VC8	VC8	V7	V7	V7	V7	V7
	VC9:A-B	VC9:A-B	V8A-B	V8A-B	V8A-B	V8A-B	V8A-B
	VC9A	VC10	V9	V9	V9	V9	V9
	VC11:A	VC11:A	V10:1	V10:11	V10:1	V10:1	V10:1
	VC11:B	VC11:B					
	VC11:C	VC11:C	V10:2	V10:2	V10:2	V10:2	V10:2
					V10:3	V10:3	V10:3
	VC11:D	VC11:D	V10:8	V10:3	V10:P	V10:P	V10:P
	VC10	VC12	V11	V11	V11	V11	V11
	VC12	VC13	V12	V12	V12	V12	V12

<u>TH11</u>	<u>TH21</u>	<u>TH12</u>	<u>TH22</u>	<u>TH13</u>	<u>TH23</u>	<u>TH14</u>	<u>TH24</u>
TVINID	VCINID	{ VCINID:A } { VCINID:B }	V14B	V14B	V14	V14	V14
TVNO	VCDAT:M	VCD:M	V15M	V15M	V15:M	V15:M	V15:M
TVDA	VCDAT:D	VCD:D	V15D	V15D	V15:D	V15:D	V15:D
TVYR	VCDAT:Y	VCD:Y					
TVTIME	{ VCHRBG	VCHREN	V16HR	V16HR	V16:HR	V16:HR	V16:HR
	{ VCMNBG	VCMNEN	V16MN	V16MN	V16:MN	V16:MN	V16:MN
TVAMPM	VCAPBG	VCAPEN	V16AP	V16AP	V16:AP	V16:AP	V16:AP

Noninterview Form*

<u>TH11</u>	<u>TH21</u>	<u>TH12</u>	<u>TH22</u>	<u>TH13</u>	<u>TH23</u>	<u>TH14</u>	<u>TH24</u>
			N1	N1			
			N1B:1-8	N1B:1-8			
			N1C	N1C			
			N1D	N1D			
			N2	N2			
			N2B:1-8	N2B:1-8			
			N2C	N2C			
			N2D	N2D			
			N3A	N3A			
			N3B	N3B			

*Noninterview questions are incorporated into the refusal/breakoff form for TH23, TH14, and TH24.

RESIDENTIAL BUILDING SURVEY INDEX

Modules A and B

<u>RB11*</u>	<u>RB21</u>	<u>RB12**</u>	<u>RB22</u>	<u>RB13</u>	<u>RB23</u>	<u>RB14</u>	<u>RB24</u>
					AID	AID	AID
					ADAT:M	ADAT:M	ADAT:M
					ADAT:D	ADAT:D	ADAT:D
					ADAT:Y	ADAT:Y	ADAT:Y
					AMS1	AMS1	AMS1
	ASTAT:1	ASTAT:PS	ASTAT:PS	ASTAT:PS			
	ABLDG:2	ABLDG:2	ABLDG:2	ABLDG:2			
					AOB	AOB	AOB
HRBG	AHRBG	AHRBG	AHRBG	AHRBG	AHR1	AHR1	AHR1
MNBG	AMNBG	AMNBG	AMNBG	AMNBG	AMN1	AMN1	AMN1
APBG	AAPBG	AAPBG	AAPBG	AAPBG	AAP1	AAP1	AAP1
	A1	A1	A1	A1			
	A2	A2	A2	A2			
	A3	A3	A3	A3			
	A4	A4	A4	A4	A1	A1	A1
	A5	A5	A5	A5	A2	A2	A2
	A6:A-E	A6A-E	A6A-E	A6A-E	A3A-E	A3A-E	A3A
	A7	A7	A7	A7	A4	A4	A4
R24:N	A8:A-F	A8A-F	A8A-F	A8A-F	A5A-F	A5A-F	A5A-F
	A9:A	A9A	A9A	A9A	A6A	A6A	A7A
	A9:B	A9B	A9B	A9B	A6B	A6B	A7B
R1	A9:C	A9C	A9C	A9C	A6C	A6C	A7C
	A9:D	A9D	A9D	A9D	A6D	A6D	A7D
	A9:E	A9E	A9E	A9E	A6E:1	A6E:1	A7E:1
	A9:F	A9F	A9F	A9F	A6E:2	A6E:2	A7E:2
R62	A10	A10	A10	A10	A7	A7	A6
	A11	A11	A11	A11	A8	A8	A8
	A12:A	A12A	A12A	A12A	A9A	A9A	A9A
	A12:B	A12B	A12B	A12B	A9B	A9B	A9B
	A12:C	A12C	A12C	A12C	A9C	A9C	A9C
	A12:D	A12D	A12D	A12D	A9D	A9D	A9D
	A12:E	A12E	A12E	A12E	A9E	A9E	A9E
	A12:F	A12F	A12F	A12F	A9F	A9F	A9F
	A12:G	A12G	A12G	A12G	A9G	A9G	A9G
	A12:H	A12H	A12H	A12H	A9H	A9H	A9H
							A9I
							A9J
							A9K
							A9L
	A13:A-E	A13	A13	A13	A10	A10	A10
	A14	A14	A14	A14	A21	A21	A12
	A15	A15	A15	A15	A22	A22	A13
	A16:A-F	A16A-F	A16A-F	A16A-F	A23A-G	A23A-G	A14A-G
					A24A-G	A24A-G	A15A-G
	A17:A-D	A17A-D	A17A-D	A17A-D	A25A-I	A25A-I	A16A-I
R49:A	A18:A	A18A	A18A	A18A	A11A	A11A	A11A
R49:B	A18:B	A18B	A18B	A18B	A11B	A11B	A11B
R49:C	A18:C	A18C	A18C	A18C	A11C	A11C	A11C
R49:D	A18:D	A18D	A18D	A18D	A11D	A11D	A11D
	A18:E	A18E	A18E	A18E	A11E	A11E	A11E
R49:E	A18:F	A18F	A18F	A18F	A11F	A11F	A11F
R49:F	A18:G	A18G	A18G	A18G	A11K	A11K	A11K
R49:G	A18:H	A18H	A18H	A18H	A11H	A11H	A11H
	A18:I	A18I	A18I	A18I	A11G	A11G	A11G
	A18:J	A18J	A18J	A18J	A11J	A11J	A11J
R49:H	A18:K	A18K	A18K	A18K	A11I	A11I	A11I
	A18:L	A18L	A18L	A18L	A11L	A11L	A11L
R57							
R58:B	A19:A	A19A	A19A	A19A	A12A	A12A	A23A

*Variables beginning with "R" begin with "Q" in the codebook.

**On RB12, each variable beginning with "A" has a counterpart variable beginning with "AA," the latter not listed here. AA variables contain the data from original observations, whereas A variables contain the presumedly more reliable data gathered when the survey was refiled.

<u>RB11*</u>	<u>RB21</u>	<u>RB12**</u>	<u>RB22</u>	<u>RB13</u>	<u>RB23</u>	<u>RB14</u>	<u>RB24</u>
R58:C	A19:B	A19B	A19B	A19B	A12B	A12B	A23B
R58:D							
R58:E	A19:C	A19C	A19C	A19C	A12C	A12C	A23C
R58:G	A19:D	A19D	A19D	A19D	A12D	A12D	A23D
	A19:E	A19E	A19E	A19E	A12E	A12E	A23E
R58:A	A19:F	A19F	A19F	A19F	A12G	A12G	A23G
R58:F	A19:G	A19G	A19G	A19G	A12F	A12F	A23F
R59:F	A20:A	A20A	A20A	A20A	A13A	A13A	A24A
	A20:B	A20B	A20B	A20B	A13B	A13B	A24B
R59:C	A20:C	A20C	A20C	A20C	A13C	A13C	A24C
R59:A	A20:D	A20D	A20D	A20D	A13E	A13E	A24E
R59:B							
R59:D							
R59:E	A20:E	A20E	A20E	A20E	A13D	A13D	A24D
	A21	A21	A21	A21	A14	A14	A25
R52	A22	A22	A22	A22	A15	A15	A17
R54							
R55	A23:A-E	A23A-E	A23A-E	A23A-E	A16A-E	A16A-E	A18A-E
					A17	A17	A19
					A18A-E	A18A-E	A20A-E
					A19A-D	A19A-D	A21A-D
	A24	A24	A24	A24			
R53	A25:A	A25A	A25A	A25A	A20A	A20A	A22A
R50	A25:B	A25B	A25B	A25B	A20B	A20B	A22B
R51	A25:C	A25C	A25C	A25C	A20C	A20C	A22C
							A22D
R56	A26	A26	A26	A26	A26	A26	A26
	AHREN	AHREN	AHREN	AHREN	AHR2	AHR2	AHR2
	AMNEN	AMNEN	AMNEN	AMNEN	AMN2	AMN2	AMN2
	AAPEN	AAPEN	AAPEN	AAPEN	AAP2	AAP2	AAP2
	ASTAT:2	ASTAT:A	ASTAT:A	ASTAT:A	AMS2	AMS2	AMS2
	BHRBG	BHRBG	BHRBG	BHRBG	BHR1	BHR1	BHR1
	BMNBG	BMNBG	BMNBG	BMNBG	BMN1	BMN1	BMN1
	BAPBG	BAPBG	BAPBG	BAPBG	BAP1	BAP1	BAP1
	B1	B1	B1	B1	B1	B1	B1
	B6	B2	B2	B2	B2	B2	B2
	B5	B3	B3	B3	B3	B3	B3
R2	B7	B4	B4	B4	B4	B4	B4
R3	B8	B5	B5	B5	B5	B5	B5
	B2	B6	B6	B6			
	B3	B7	B7	B7			
R4	B4	B8	B8	B8	B6	B6	B6
	B9	B9	B9	B9	B7	B7	B7
R13							
R15							
R16:1-5							
R17							
R18							
R19	B10	B10	B10	B10	B8	B8	B8
R20:1-5	B11:1-6	B11:1-6	B11A-F	B11A-F	B9A-F	B9A-F	B9A-F
R60***	B12:A	B12A	B12A	B12A	B10A	B10A	B11A
	B12:B	B12B	B12B	B12B	B10B	B10B	B11B
R61	B13	B13	B13	B13	B11	B11	B10
	B14:A-E	B14A-E	B14A-E	B14A-E	B12A-E	B12A-E	B12A-E
R14	B15	B15	B15	B15	B13	B13	B13
R21	B16:A-L	B16A-L	B16A-L	B16A-L	B14A-L	B14A-L	B14A-L
R22:1-3 }							
R24:D	B17:A-F	B17A-F	B17A-F	B17A-F	B15A-F	B15A-F	B15A-F
R25	B18	B18	B18	B18	B16	B16	B16
R26	B19	B19	B19	B19	B17	B17	B17
	B20	B20	B20	B20	B18	B18	B26
R24:L	B21	B21	B21	B21	B19	B19	B27

*Variables beginning with "R" begin with "Q" in the codebook.

**On RB12, each variable beginning with "A" has a counterpart variable beginning with "AA," the latter not listed here. AA variables contain the data from original observations, whereas A variables contain the presumed more reliable data gathered when the survey was refielded.

***The unit of measure for R60 is feet; for all corresponding variables, yards.

<u>RB11*</u>	<u>RB21</u>	<u>RB12</u>	<u>RB22</u>	<u>RB13</u>	<u>RB23</u>	<u>RB14</u>	<u>RB24</u>
R24:E	B22:A-F	B22A-F	B22A-F	B22A-F	B22A-F	B20A-F	B19A-F
R24:H	B23:A-H	B23A-H	B23A-H	B23A-H	B23A-H		
R24:J	B24:A-H	B24A-H	B24A-H	B24A-H	B24A-H	B21A-F	B20A-F
R24:F	B25:A-F	B25A-F	B25A-F	B25A-F	B25A-F		
R24:G	B26:A-H	B26A-H	B26A-H	B26A-H	B26A-H		
R24:I	B27:A-H	B27A-H	B27A-H	B27A-H	B27A-H		
	B28:A-C	B28A-C	B28A-C	B28A-C	B28A-C	B22A-C	B28A-C
R23	B29:A-K	B29A-K	B29A-K	B29A-K	B29A-K	B23A-J	B29A-J
R24:A	B30:A-F	B30A-F	B30A-F	B30A-F	B30A-F	B24A-F	B30A-F
R27	B31	B31	B31	B31	B31	B25	B31
R24:B	B32:A-H	B32A-H	B32A-H	B32A-H	B32A-H	B27A-G	B18A-G
R24:C	B33:A-H	B33A-H	B33A-H	B33A-H	B33A-H	B26A-GH	B32A-GH
R35	B34	B34	B34	B34	B34	B28	B21
R36	B35:A	B35A	B35A	B35A	B35A	B29A	B22A
R37	B35:B	B35B	B35B	B35B	B35B	B29B	B22B
R38	B35:C	B35C	B35C	B35C	B35C	B29C	B22C
	B36:A-E	B36A-E	B36A-E	B36A-E	B36A-E		
R24:K**	B37:A-E	B37A-E	B37A-E	B37A-E	B37A-E	B30A-E	B23A-E
R39	B38	B38	B38	B38	B38	B31	B24
R40							
R42							
R24:K**	B39:A-E	B39A-E	B39A-E	B39A-E	B39A-E	B32A-E	B25A-E
R28	B58	B40	B40	B40	B40	B33	B33
R29							
R30							
	B40	B41	B41	B41	B34	B34	B34
	B41	B42	B42	B42	B35	B35	B35
	B42	B43	B43	B43	B36	B36	B36
	B43	B44	B44	B44	B37	B37	B37
R31	B44:A-B	B45A-B	B45A-B	B45A-B	B38A-B	B38A-B	B38A-B
	B45	B46	B46	B46	B39	B39	B39
	B46	B47	B47	B47	B40	B40	B40
R32	B47:A-B	B48A-B	B48A-B	B48A-B	B41A-B	B41A-B	B41A-B
	B48	B49	B49	B49	B42	B42	B42
	B49	B50	B50	B50	B43	B43	B43
R33	B50:A	B51A	B51A	B51A	B44A	B44A	B44A
R34							
	B51	B52	B52	B52	B45	B45	B45
R24:O**	B52	B53	B53	B53	B46	B46	B46
					B47	B47	B50
R41	B53	B54	B54	B54	B48A-E	B48A-E	B51A-E
					B49A-E	B49A-E	B52A-E
	B54	B55	B55	B55	B50A-G	B50A-G	B53A-G
	B55	B56	B56	B56	B51	B51	B54
					B52	B52	B47
R24:O**	B56:A-H	B57A-H	B57A-H	B57A-H	B53A-F	B53A-F	B48A-F
R24:M	B57:A-H	B58A-H	B58A-H	B58A-H	B54A-GH	B54A-GH	B49A-GH
	B59	B59	B59	B59	B55	B55	B55
R47	B60	B60	B60	B60	B56	B56	B56
R46	B61	B61	B61	B61	B57	B57	B57
					B58	B58	B58
	B62	B62	B62	B62	B59	B59	B59
	B63	B63	B63	B63	B60	B60	B60
					B61	B61	B61
					B62A-D	B62A-D	B62A-D
					B63	B63	B63
	B64	B64	B64	B64			
	B65	B65	B65	B65	B64	B64	B64
	B66:A-C	B66A-C	B66A-C	B66A-C	B65A-C	B65A-C	B65A-C
	B67:A-G	B67A-G	B67A-G	B67A-G	B66A-G	B66A-G	B66A-G
	B68:A-E	B68A-E	B68A-E	B68A-E	B67A-E	B67A-E	B67A-E
	B69	B69	B69	B69	B68	B68	B68
R5	B70	B70	B70	B70	B69	B69	B69
R6	B71	B71	B71	B71	B70	B70	B70
R7:C	B72:1A-F	B72:1A-F	B72:1A-F	B72:1A-F	B71A-F	B71A-F	B71A-F

*Variables beginning with "R" begin with "Q" in the codebook.

**This variable is listed more than once in this column because its corresponding variables are not numerically adjacent.

<u>RB11*</u>	<u>RB21</u>	<u>RB12</u>	<u>RB22</u>	<u>RB13</u>	<u>RB23</u>	<u>RB14</u>	<u>RB24</u>
R7:B	B72:2A-F	B72:2A-F	B72:2A-F	B72:2A-F	B72A-F	B72A-F	B72A-F
R7:A	B72:3A-F	B72:3A-F	B72:3A-F	B72:3A-F	B73A-F	B73A-F	B73A-F
R7:D	B72:4A-H	B72:4A-H	B72:4A-H	B72:4A-H	B74A-GH	B74A-GH	B74A-GH
R7:E	B72:5A-F	B72:5A-F	B72:5A-F	B72:5A-F	B75A-F	B75A-F	B75A-F
R7:F	B72:6A-H	B72:6A-H	B72:6A-H	B72:6A-H	B76A-F	B76A-F	B76A-F
R7:H	B72:7A-H	B72:7A-H	B72:7A-H	B72:7A-H	B77A-GH	B77A-GH	B77A-GH
	B72:8A-H	B72:8A-H	B72:8A-H	B72:8A-H	B78A-G	B78A-G	B78A-G
					B79	B79	B79
R7:I	B72:9A-H	B72:9A-H	B72:9A-H	B72:9A-H	B80	B80	B80
R7:G	B72:0A-H	B72:10A-H	B72:10A-H	B72:10A-H	B81A-GH	B81A-GH	B81A-GH
R8	B73	B73	B73	B73	B84	B84	B84
R7:J	B74	B74	B74	B74	B85	B85	B85
R9							
R10	B75	B75	B75	B75	B82	B82	B82
R11	B76	B76	B76	B76	B83	B83	B83
R12	B77	B77	B77	B77	B86	B86	B86
	B78	B78	B78	B78	B87	B87	B87
CONT	B79	B79	B79	B79			
	B80:A-D	B80A-D	B80A-D	B80A-D			
	B81	B81	B81	B81			
R43	B83	B83	B83	B83	B88	B88	B88
	B84	B84	B84	B84	B89	B89	B89
R44	B85	B85	B85	B85	B90	B90	B90
R45	B86	B86	B86	B86	B91	B91	B91
R48	B87	B87	B87	B87	B92	B92	B92
ENTR	B88	B88	B88	B88	B93	B93	B93
	B89	B89	B89	B89	B94	B94	B94
HREN	BHREN	BHREN	BHREN	BHREN	BHR2	BHR2	BHR2
MNEN	BMNEN	BMNEN	BMNEN	BMNEN	BMN2	BMN2	BMN2
APEN	BAPEN	BAPEN	BAPEN	BAPEN	BAP2	BAP2	BAP2
	BMS**	BSTAT:B	BSTAT:B	BSTAT:B	BMS	BMS	BMS

Building Record Folder

<u>RB11</u>	<u>RB21</u>	<u>RB12***</u>	<u>RB22</u>	<u>RB13</u>	<u>RB23</u>	<u>RB14</u>	<u>RB24</u>
CITY							
NOBL:A							
NOBL:B							
SIDN	UID:1	UID:1	UID:1	UID:1	UID:1	UID:1	UID:1
	UID:2	UID:2	UID:2	UID:2	UID:2	UID:2	UID:2
DMO	U1DATE:M	U1DATE:M	U1DATE:M	U1DATE:M	U1DATE:M	U1DATE:M	U1DATE:M
DDA	U1DATE:D	U1DATE:D	U1DATE:D	U1DATE:D	U1DATE:D	U1DATE:D	U1DATE:D
DYR	U1DATE:Y	U1DATE:Y	U1DATE:Y	U1DATE:Y	U1DATE:Y	U1DATE:Y	U1DATE:Y
			U2DATE:M	U2DATE:M	U2DATE:M	U2DATE:M	U2DATE:M
			U2DATE:D	U2DATE:D	U2DATE:D	U2DATE:D	U2DATE:D
			U2DATE:Y	U2DATE:Y	U2DATE:Y	U2DATE:Y	U2DATE:Y
				UOB	UOB	UOB	UOB
STAT	UFSC	UFSC	UFSC	UFSC	UFSC	UFSC	UFSC
	UCONT:1	UCONT:1	UCONT:1	UCONT:1	UCONT:1	UCONT:1	UCONT:1
			UCONT:2	UCONT:2			
	UCONT:2	UCONT:2	UCONT:3	UCONT:3	UCONT:3	UCONT:3	UCONT:3
	UCONT:3	UCONT:3	UCONT:4	UCONT:4	UCONT:4	UCONT:4	UCONT:4
	UCONT:4	UCONT:4	UCONT:5	UCONT:5	UCONT:2	UCONT:2	UCONT:2
					UCONT:5	UCONT:5	UCONT:5
					URFS	URFS	URFS
	U(1-8)A1	U(1-8)A1	U(1-8)A1	U(1-8)A1	U(1-4)A	U(1-4)A	U(1-4)A
					U(1-4)	U(1-4)B	U(1-4)B
	U(1-8)A2	U(1-8)A2	U(1-8)A2	U(1-8)A2	U(1-4)C:M	U(1-4)C:M	U(1-4)C:M
	U(1-8)A3	U(1-8)A3	U(1-8)A3	U(1-8)A3	U(1-4)C:D	U(1-4)C:D	U(1-4)C:D

*Variables beginning with "R" begin with "Q" in the codebook.

**Appears in the codebook as BSTAT.

***On RB12, each variable beginning with "U" has a counterpart variable beginning with "UU," the latter not listed here. The U variables contain data from original observations; the UU variables, data from refielded observations. Both sets of data are presumed equally reliable.

<u>RB11*</u>	<u>RB21</u>	<u>RB12**</u>	<u>RB22</u>	<u>RB13</u>	<u>RB23</u>	<u>RB14</u>	<u>RB24</u>
TYPE	U(1-8)A4	U(1-8)A4	U(1-8)A4	U(1-8)A4			
	U(1-8)B1	U(1-8)B1	U(1-8)B1	U(1-8)B1	U(1-4)D:1	U(1-4)D:1	U(1-4)D:1
	U(1-8)B2	U(1-8)B2	U(1-8)B2	U(1-8)B2	U(1-4)D:2	U(1-4)D:2	U(1-4)D:2
	U(1-8)B3	U(1-8)B3	U(1-8)B3	U(1-8)B3	U(1-4)D:3	U(1-4)D:3	U(1-4)D:3
	U(1-8)C1	U(1-8)C1	U(1-8)C1	U(1-8)C1	U(1-4)E	U(1-4)E	U(1-4)E
	U(1-8)D1	U(1-8)D1	U(1-8)D1	U(1-8)D1			
	U(1-8)E1	U(1-8)E1	U(1-8)E1	U(1-8)E1	U(1-4)F:1-3	U(1-4)F:1-3	U(1-4)F:1-4
	U(1-8)F1	U(1-8)F1	U(1-8)F1	U(1-8)F1	U(1-4)H	U(1-4)H	U(1-4)H
	U1	U1	U1	U1	UOP5	UOP5	UOP5
	U2:A	U2:A	U2:A	U2:A	UOP1:1	UOP1:1	UOP1:1
U2:B	U2:B	U2:B	U2:B	UOP1:2	UOP1:2	UOP1:2	
U2:C	U2:C	U2:C	U2:C	UOP1:3	UOP1:3	UOP1:3	
U2:D	U2:D	U2:D	U2:D	UOP1:4	UOP1:4	UOP1:4	
R63	U3:A	U3:A	U3:A	U3:A	UOP2:1	UOP2:1	UOP2:1
	U3:B	U3:B	U3:B	U3:B	UOP2:2	UOP2:2	UOP2:2
	U3:C	U3:C	U3:C	U3:C	UOP2:3	UOP2:3	UOP2:3
	U3:D	U3:D	U3:D	U3:D	UOP2:4	UOP2:4	UOP2:4
	U4:A-E4	U4:A-E4	U4:A1-5	U4:A1-5	UOP3:1	UOP3:1	UOP3:1
	U4:A-E3	U4:A-E3	U4:B1-5	U4:B1-5	UOP3:2	UOP3:2	UOP3:2
	U4:A-E2	U4:A-E2	U4:C1-5	U4:C1-5	UOP3:3	UOP3:3	UOP3:3
	U4:A-E1	U4:A-E1	U4:D1-5	U4:D1-5	UOP3:4	UOP3:4	UOP3:4
					UOP4	UOP4	UOP4
	U5	U5	U5	U5	UOP6	UOP6	UOP6

Validation Form

<u>RB11</u>	<u>RB21</u>	<u>RB12</u>	<u>RB22</u>	<u>RB13</u>	<u>RB23***</u>	<u>RB14***</u>	<u>RB24***</u>
				CSTAT:PS VLBLDG:2	VANS1	VAMS1	VAMS1
VLAIID	VLIID	VLIID	VLIID				
VLAM	VLMO	VLMO	VLMO		VADAT:M	VADAT:M	VADAT:M
VLAD	VLDA	VLDA	VLDA		VADAT:D	VADAT:D	VADAT:D
VLAY	VLYR	VLYR	VLYR		VADAT:Y	VADAT:Y	VADAT:Y
VLASTAT1	VLSFST	VLSFST	VLSFST				
VLAHR:1	VLHR	VLHR	VLHR				
VLAMN:1	VLMP	VLMP	VLMP				
VLAAP:1	VLAP	VLAP	VLAP				
VLASTAT2	VLVFST	VLVFST	VLVFST				
VLAVID	VLVID	VLVID	VLVID		VAID	VAID	VAID
					VAOB	VAOB	VAOB
VLAHR:2	VLAHRBG	VLAHRBG	VLAHRBG	VLCHRBG	VAHR1	VAHR1	VAHR1
VLAMN:2	VLAMNBG	VLAMNBG	VLAMNBG	VLCMNBG	VAMN1	VAMN1	VAMN1
VLAAP:2	VLAAPBG	VLAAPBG	VLAAPBG	VLCAPBG	VAAP1	VAAP1	VAAP1
VLA1	VLA1	VLA1	VLA1	VLC1			
VLA2	VLA2	VLA2	VLA2	VLC2			
VLA3	VLA3	VLA3	VLA3	VLC3			
				VLC4	VA1	VA1	VA1
VLA4	VLA4	VLA4	VLA4	VLC5	VA2	VA2	VA2
				VLC6A-E	VA3A-E	VA3A-E	VA3A-E
				VLC7	VA4	VA4	VA4
				VLC8A-F	VA5A-F	VA5A-F	VA5A-F
				VLC9A-F	VA6A-E:2	VA6A-E:2	VA7A-E:2
				VLC10	VA7	VA7	VA6
				VLC11	VA8	VA8	VA8
				VLC12A-H	VA9A-H	VA9A-H	VA9A-H

*Variables beginning with "R" begin with "Q" in the codebook.

**On RB12, each variable beginning with "U" has a counterpart variable beginning with "UU," the latter not listed here. The U variables contain data from original observations; the UU variables, data from refielded observations. Both sets of data are presumed equally reliable.

***In this wave, the validation was a second complete observation. Therefore, the validation variables are identical to the variables in the other modules and forms, except that the validation variable names are preceded by a "V." Here we list only the VA and VB variables validating modules A and B; we omit the VU and VR variables validating the building record folder and refusal/breakoff form, respectively. (There are no VR variables on RB24.)

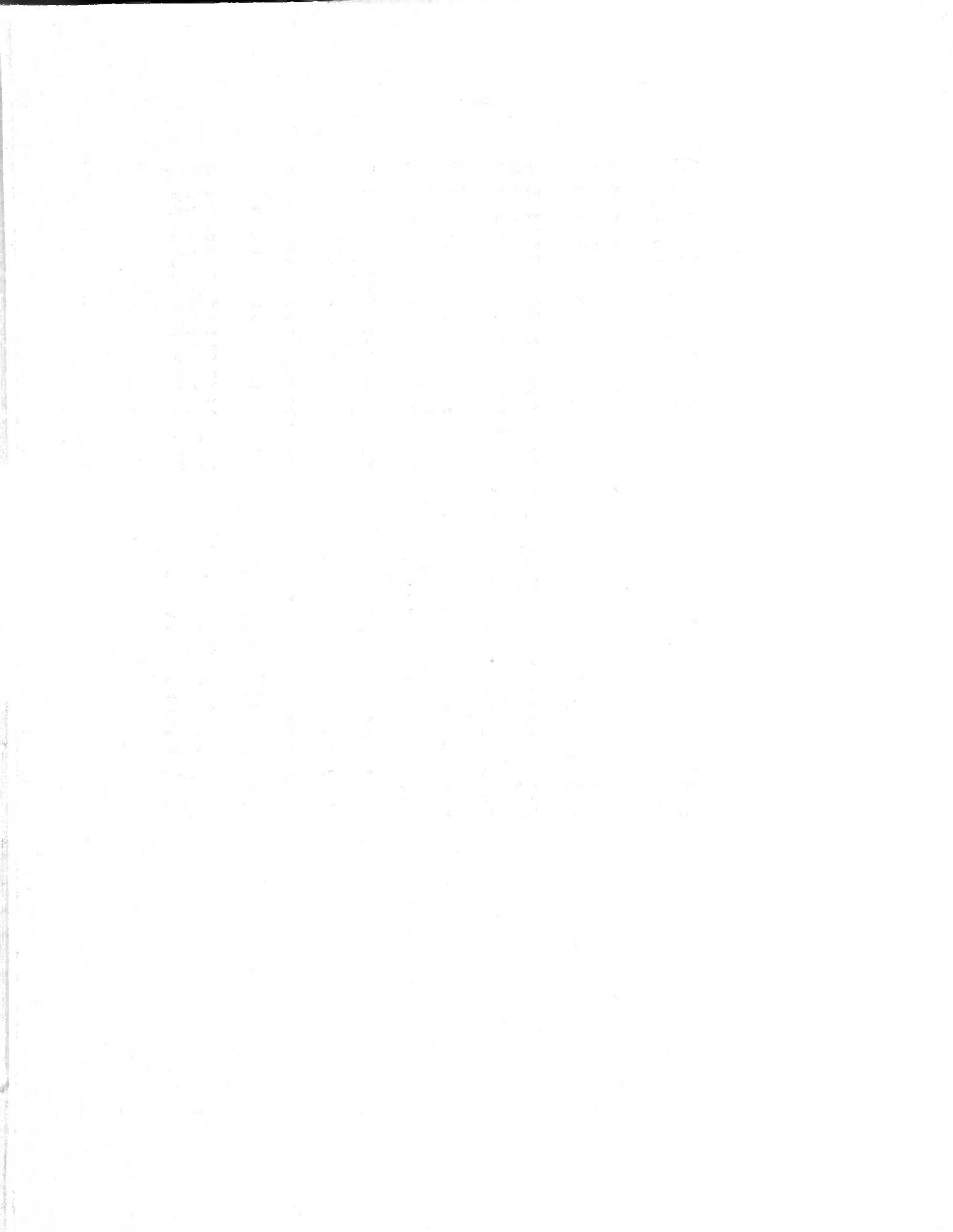
<u>RB11</u>	<u>RB21</u>	<u>RB12</u>	<u>RB22</u>	<u>RB13</u>	<u>RB23*</u>	<u>RB14*</u>	<u>RB24*</u>
	VLB8:A-E VLB9 VLB10:A-L VLB11:A-F VLB12	VLB8:A-E VLB9 VLB10:A-L VLB11:A-F VLB12	VLB8:A-E VLB9 VLB10:A-L VLB11:A-F VLB12	VLD8A-E VLD9 VLD10A-L VLD11A-F VLD12	VB12A-E VB13 VB14A-L VB15A-F VB16 VB17 VB18 VB19 VB20A-F VB21A-F VB22A-C VB23-26 VB27A-G VB28-32 VB33 VB34 VB35 VB36-46 VB47-51 VB52-54 VB55-67 VB68 VB69 VB70 VB71A-F VB72A-F VB73A-84 VB85 VB86-87	VB12A-E VB13 VB14A-L VB15A-F VB16 VB17 VB18 VB19 VB20A-F VB21A-F VB22A-C VB23-26 VB27A-G VB28-32 VB33 VB34 VB35 VB36-46 VB47-51 VB52-54 VB55-67 VB68 VB69 VB70 VB71A-F VB72A-F VB73A-84 VB85 VB86-87	VB12A-E VB13 VB14A-L VB15A-F VB16 VB17 VB26 VB27 VB19A-F VB20A-F VB28A-C VB29-32 VB18A-G VB21-25 VB33 VB34 VB35 VB36-46 VB50-54 VB47-49 VB55-67 VB68 VB69 VB70 VB71A-F VB72A-F VB73A-84 VB85 VB86-87
	VLB13:A-C	VLB13:A-C	VLB13:A-C	VLD13A-C			
	VLB14	VLB14	VLB14	VLD15			
	VLB15	VLB15	VLB15	VLD14			
	VLB16 VLB17 VLB18 VLB19:1A-F VLB19:2A-F	VLB16 VLB17 VLB18 VLB19:1A-F VLB19:2A-F	VLB16 VLB17 VLB18 VLB19:1A-F VLB19:2A-F	VLD16 VLD17 VLD18 VLD19:1A-F VLD19:2A-F	VB68 VB69 VB70 VB71A-F VB72A-F VB73A-84 VB85 VB86-87	VB68 VB69 VB70 VB71A-F VB72A-F VB73A-84 VB85 VB86-87	VB68 VB69 VB70 VB71A-F VB72A-F VB73A-84 VB85 VB86-87
	VLB20	VLB20	VLB20	VLD20			
	VLB21 VLB22:A-D VLB23 VLB25 VLB26 VLB27	VLB21 VLB22:A-D VLB23 VLB25 VLB26 VLB27	VLB21 VLB22:A-D VLB23 VLB25 VLB26 VLB27	VLD21 VLD22A-D VLD23 VLD25 VLD26 VLD27	VB88 VB89 VB90 VB91 VB92 VB93 VB94	VB88 VB89 VB90 VB91 VB92 VB93 VB94	VB88 VB89 VB90 VB91 VB92 VB93 VB94
	VLB28 VLB29	VLB28 VLB29	VLB28 VLB29	VLD28 VLD29	VB92 VB93 VB94	VB92 VB93 VB94	VB92 VB93 VB94
	VLB31:A-G VLB32 VLBHR VLBMN VLBAP	VLB31:A-G VLB32 VLBHRN VLBMNEN VLBAPEN	VLB31:A-G VLB32 VLBHRN VLBMNEN VLBAPEN	VLD31A-G VLD32 VLDHREN VLDMNEN VLDAPEN	VBHR2 VBMN2 VBAP2 VBMS	VBHR2 VBMN2 VBAP2 VBMS	VBHR2 VBMN2 VBAP2 VBMS RBPC

Refusal/Breakoff Form

<u>RB11</u>	<u>RB21</u>	<u>RB12</u>	<u>RB22</u>	<u>RB13</u>	<u>RB23</u>	<u>RB14</u>	<u>RB24</u>
RSTAT:1 RSTAT:2	RREF1 RREF2 RBRK	RREF1 RREF2 RBRK	RREF1 RREF2 RBRK	RREF1 RREF2 RBRK	RR1 RR2 RBRK ROBS R1:1-2 R9:1-2 R2:1-2A R2:1-2B R2:1-2C R2:1-2F	RR1 RR2 RBRK ROBS R1:1-2 R9:1-2 R2:1-2A R2:1-2B R2:1-2C R2:1-2F	RR1 RR2 RBRK ROBS R1:1-2 R9:1-2 R2:1-2A R2:1-2B R2:1-2C R2:1-2F

*In this wave, the validation was a second complete observation. Therefore, the validation variables are identical to the variables in the other modules and forms, except that the validation variable names are preceded by a "V." Here we list only the VA and VB variables validating modules A and B; we omit the VU and VR variables validating the building record folder and refusal/breakoff form, respectively. (There are no VR variables on RB24.)

<u>RB11</u>	<u>RB21</u>	<u>RB12</u>	<u>RB22</u>	<u>RB13</u>	<u>RB23</u>	<u>RB14</u>	<u>RB24</u>
R3:D1-2	R2:1-2D	R2:1-2D	R2:1-2D	R2:1-2D	R2:1-2D	R2:1-2D	R2:1-2D
R3:E1-2	R2:1-2E	R2:1-2E	R2:1-2E	R2:1-2E	R2:1-2E	R2:1-2E	R2:1-2E
R3:F1-2	R2:1-2F	R2:1-2F	R2:1-2F	R2:1-2F	R2:1-2F	R2:1-2F	R2:1-2F
R3:G1-2	R2:1-2G	R2:1-2G	R2:1-2G	R2:1-2G	R2:1-2G	R2:1-2G	R2:1-2G
R3:H1-2	R2:1-2H	R2:1-2H	R2:1-2H	R2:1-2H	R2:1-2H	R2:1-2H	R2:1-2H
R3:I1-2	R2:1-2I	R2:1-2I	R2:1-2I	R2:1-2I	R2:1-2I	R2:1-2I	R2:1-2I
R3:J1-2	R2:1-2J	R2:1-2J	R2:1-2J	R2:1-2J	R2:1-2J	R2:1-2J	R2:1-2J
R4:A1-2	R3:1-2A	R3:1-2A	R3:1-2A	R3:1-2A	R4:1-2A	R4:1-2A	R4:1-2A
R4:B1-2	R3:1-2B	R3:1-2B	R3:1-2B	R3:1-2B	R4:1-2B	R4:1-2B	R4:1-2B
					R4:1-2C	R4:1-2C	R4:1-2C
R4:C1-2	R3:1-2C	R3:1-2C	R3:1-2C	R3:1-2C	R4:1-2D	R4:1-2D	R4:1-2D
R4:D1-2	R3:1-2D	R3:1-2D	R3:1-2D	R3:1-2D	R4:1-2E	R4:1-2E	R4:1-2E
					R4:1-2F	R4:1-2F	R4:1-2F
					R4:1-2G	R4:1-2G	R4:1-2G
R4:E1-2	R3:1-2E	R3:1-2E	R3:1-2E	R3:1-2E	R4:1-2H	R4:1-2H	R4:1-2H
R4:F1-2	R3:1-2F	R3:1-2F	R3:1-2F	R3:1-2F	R4:1-2I	R4:1-2I	R3:1-2I
					R4:1-2J	R4:1-2J	R4:1-2J
R20:1-2	R5:1-2	R5:1-2	R5:1-2	R5:1-2	R16:1-2	R16:1-2	R16:1-2
R6:1-2	R6:1-2	R6:1-2	R6:1-2	R6:1-2	R3:1-2	R3:1-2	R3:1-2
R7:1-2	R7:1-2	R7:1-2	R7:1-2	R7:1-2	R5:1-2	R5:1-2	R5:1-2
R9:1-2							
	R9:1-2A	R9:1-2A	R9:1-2A	R9:1-2A			
	R9:1-2B	R9:1-2B	R9:1-2B	R9:1-2B			
	R9:1-2C	R9:1-2C	R9:1-2C	R9:1-2C			
R1:1-2	R10:1-2	R10:1-2	R10:1-2	R10:1-2	R7:1-2	R7:1-2	R7:1-2
					R8:1-2	R8:1-2	R8:1-2
R10:A1-2	R11:1-2A	R11:1-2A	R11:1-2A	R11:1-2A	R17:1-2A	R17:1-2A	R17:1-2A
R10:B1-2	R11:1-2B	R11:1-2B	R11:1-2B	R11:1-2B	R17:1-2B	R17:1-2B	R17:1-2B
R10:C1-2	R11:1-2C	R11:1-2C	R11:1-2C	R11:1-2C			
R11:1-2	R12:1-2	R12:1-2	R12:1-2	R12:1-2	R11:1-2	R11:1-2	R11:1-2
R12:A1-2	R13:1-2A	R13:1-2A	R13:1-2A	R13:1-2A	R12:1-2A	R12:1-2A	R12:1-2A
R12:B1-2	R13:1-2B	R13:1-2B	R13:1-2B	R13:1-2B	R12:1-2B	R12:1-2B	R12:1-2B
R12:C1-2	R13:1-2C	R13:1-2C	R13:1-2C	R13:1-2C	R12:1-2C	R12:1-2C	R12:1-2C
R13:1-2	R14:1-2	R14:1-2	R14:1-2	R14:1-2	R14:1-2	R14:1-2	R14:1-2
R14:1-2	R15:1-2	R15:1-2	R15:1-2	R15:1-2			
R15:A1-2	R16:1-2A	R16:1-2A	R16:1-2A	R16:1-2A	R15:1-2A	R15:1-2A	R15:1-2A
R15:B1-2	R16:1-2B	R16:1-2B	R16:1-2B	R16:1-2B	R15:1-2B	R15:1-2B	R15:1-2B
R15:C1-2	R16:1-2C	R16:1-2C	R16:1-2C	R16:1-2C	R15:1-2C	R15:1-2C	R15:1-2C
R16:1-2	R17:1-2	R17:1-2	R17:1-2	R17:1-2	R20:1-2	R20:1-2	R20:1-2
R17:M1-2	R18:1-2M	R18:1-2M	R18:1-2M	R18:1-2M	R18:1-2M	R18:1-2M	R18:1-2M
R17:D1-2	R18:1-2D	R18:1-2D	R18:1-2D	R18:1-2D	R18:1-2D	R18:1-2D	R18:1-2D
R17:Y1-2	R18:1-2Y	R18:1-2Y	R18:1-2Y	R18:1-2Y			
R18:H1-2	R19:1-2A	R19:1-2A	R19:1-2A	R19:1-2A	R19:1-2H	R19:1-2H	R19:1-2H
R18:M1-2	R19:1-2B	R19:1-2B	R19:1-2B	R19:1-2B	R19:1-2M	R19:1-2M	R19:1-2M
R18:A1-2	R19:1-2C	R19:1-2C	R19:1-2C	R19:1-2C	R19:1-2B	R19:1-2B	R19:1-2B
R19:1-2	R20:1-2	R20:1-2	R20:1-2	R20:1-2			



NEIGHBORHOOD SURVEY INDEX

Many NS11 variables are bracketed with a corresponding variable prefixed by "A," as in

NQ6 }
A6 }

The A variables represent expansions of the instrument to allow for multiple occurrences of the same characteristic. For example, NQ6 allowed space to describe four highways in each neighborhood; A6 provided space for eight more.

Neighborhood Local Sources Survey Index

<u>NS11*</u>	<u>NS21</u>	<u>NS14</u>	<u>NS24</u>
NSTAT			
NQ1:A-Y			
NQ2:A-Y			
NQ3:A1	N1:A1		L1A:1
NQ3:A2	N1:A2	N2A:1	L1A:2
NQ3:A3	N1:A3	N2A:2	
NQ3:B1	N1:B1		L1B:1
NQ3:B2	N1:B2	N2B:1	L1B:2
NQ3:B3	N1:B3	N2B:2	
NQ3:C1	N1:C1		L1C:1
NQ3:C2	N1:C2	N2C:1	L1C:2
NQ3:C3	N1:C3	N2C:2	
NQ3:D1	N1:D1		L1D:1
NQ3:D2	N1:D2	N2D:1	L1D:2
NQ3:D3	N1:D3	N2D:2	
NQ3:E1	N1:E1		L1E:1
NQ3:E2	N1:E2	N2E:1	L1E:2
NQ3:E3	N1:E3	N2E:2	
NQ3:F1	N1:F1		L1F:1
NQ3:F2	N1:F2	N2F:1	L1F:2
NQ3:F3	N1:F3	N2F:2	L1G:1
			L1G:2
NQ3:G1	N1:G1		L1H:1
NQ3:G2	N1:G2	N2G:1	L1H:2
NQ3:G3	N1:G3	N2G:2	
		N2G:3	
NQ3:H1	N1:H1		L1I:1
NQ3:H2	N1:H2	N2H:1	L1I:2
NQ3:H3	N1:H3	N2H:2	
NQ3:I1	N1:I1		L1J:1
NQ3:I2	N1:I2	N2I:1	L1J:2
NQ3:I3	N1:I3	N2I:2	
NQ3:J1	N1:J1		L1K:1
NQ3:J2	N1:J2	N2J:1	L1K:2
NQ3:J3	N1:J3	N2J:2	L1K:3
		N2J:3	L1K:4
		N2J:4	L1L:1
		N2K:1	L1L:2
		N2K:2	L1L:3
		N2K:3	L1L:4
		N2K:4	L1M:1
		N2L:1	L1M:2
		N2L:2	L1M:3
		N2L:3	L1M:4
		N2L:4	L1N:1
			L1N:2
			L1N:3
			L1N:4
NQ3:K1	N1:K1		L1O:1
NQ3:K2	N1:K2	N2M:1	L1O:2
NQ3:K3	N1:K3	N2M:2	L1O:3
		N2M:3	L1O:4
		N2M:4	
		N2N:1	
		N2N:2	
		N2N:3	
		N2N:4	
NQ3:L1	N1:L1		L1P:1
NQ3:L2	N1:L2	N2O:1	L1P:2
NQ3:L3	N1:L3	N2O:2	L1P:3
		N2O:3	L1P:4
		N2O:4	

*In the codebook, the questions appear without the N prefix.

<u>NS11*</u>	<u>NS21</u>	<u>NS14</u>	<u>NS24</u>
NQ3:M1	N1:M1		L1Q:1
NQ3:M2	N1:M2	N2P:1	L1Q:2
NQ3:M3	N1:M3	N2P:2	L1Q:3
		N2P:3	L1Q:4
		N2P:4	
NQ3:N1	N1:N1		
NQ3:N2	N1:N2	N2Q:1	L1R:1
NQ3:N3	N1:N3	N2Q:2	L1R:2
		N2Q:3	L1R:3
		N2Q:4	L1R:4
NQ3:O1	N1:O1		
NQ3:O2	N1:O2	N2R:1	L1S:1
NQ3:O3	N1:O3	N2R:2	L1S:2
NQ3:P1	N1:P1		
NQ3:P2	N1:P2	N2S:1	L1T:1
NQ3:P3	N1:P3	N2S:2	L1T:2
NQ3:Q1	N1:Q1		
NQ3:Q2	N1:Q2	N2T:1*	L1U:1*
NQ3:Q3	N1:Q3	N2T:2*	L1U:2*
NQ3:R1	N1:R1		
NQ3:R2	N1:R2	N2T:1*	L1U:1*
NQ3:R3	N1:R3	N2T:2*	L1U:2*
NQ3:S1	N1:S1		
NQ3:S2	N1:S2	N2U:1	L1V:1
NQ3:S3	N1:S3	N2U:2	L1V:2
NQ3:T1	N1:T1		
NQ3:T2	N1:T2	N2V:1	L1W:1
NQ3:T3	N1:T3	N2V:2	L1W:2
NQ3:U1	N1:U1		
NQ3:U2	N1:U2	N2W:1	L1X:1
NQ3:U3	N1:U3	N2W:2	L1X:2
NQ3:V1	N1:V1		
NQ3:V2	N1:V2	N2X:1	L1Y:1
NQ3:V3	N1:V3	N2X:2	L1Y:2
NQ3:W1	N1:W1		
NQ3:W2	N1:W2	N2Y:1	L1Z:1
NQ3:W3	N1:W3	N2Y:2	L1Z:2
NQ3:X1	N1:X1		
NQ3:X2	N1:X2	N2Z:1	L1ZZ:1
NQ3:X3	N1:X3	N2Z:2	L1ZZ:2
		N2AA:1	L1AA:1
			L1BB:1
		N2BB:1	L1CC:1
NQ4:A-E1	N2:A-C		
NQ4:(A-E)M	N2:(A-C)CM		
NQ4:(A-E)Y	N2:(A-C)CY		
	N2:D		
NQ5:A1	N3:A		
		N3A:1	
NQ5:A2	N3:ACC	N3A:2	L2A
NQ5:B1	N3:B		
NQ5:B2	N3:BCC		
NQ5:C1	N3:C		
NQ5:C2	N3:CCC	N3B:2	L2B
NQ5:D1	N3:D		
		N3C:1	
NQ5:D2	N3:DCC	N3C:2	L2C
NQ5:E1	N3:E		
NQ5:E2	N3:ECC		
NQ5:F1	N3:F		
		N3D:1	
NQ5:F2	N3:FCC	N3D:2	L2D
NQ5:G1	N3:G		

*In the codebook, the questions appear without the N prefix.

**This variable is listed more than once in this column because its corresponding variables are not numerically adjacent.

<u>NS11*</u>	<u>NS21</u>	<u>NS14</u>	<u>NS24</u>
NQ5:G2	N3:GCC	N3E:1	L2E
NQ5:H1	N3:H	N3E:2	
NQ5:H2	N3:HCC	N3F:1	L2F
NQ5:I1	N3:I		
NQ5:I2	N3:ICC	N3G:1	L2G
NQ5:J1	N3:J		
NQ5:J2	N3:JCC	N3H:1	L2H
NQ5:K	N3:K		
NQ5:L	N3:L		
NQ6 }	N4HW1	N4	L3
A6:T }			
NQ6:A1-4 }	N4:A1-12		
A6A:5-12 }			
NQ6:B1-4 }	N4:B1-12		
A6B:5-12 }			
NQ6:C1-4 }	N4:C1-12		
A6C:5-12 }			
NQ6:D1-4 }	N4:D1-12		
A6D:5-12 }			
NQ6:E1-4 }	N4:E1-12		
A6E:5-12 }			
NQ6:F1-4 }	N4:F1-12		
A6F:5-12 }			
NQ6:G1-4 }	N4:G1-12		
A6G:5-12 }			
NQ6:H1-4 }	N4:H1-12		
A6H:5-12 }			
		N4A	L3A
		N4B	
		N4C	L3B
		N4D	
		N4E	
		N4F	
		N4G	L3C
		N4H	L3D
		N5	L4
NQ7 }	N5AR		
A7:T }			
NQ7:A1-4 }	N5:A1-16		
A7A:5-12 }			
NQ7:B1-4 }	N5:B1-16		
A7B:5-12 }			
NQ7:C1-4 }	N5:C1-16		
A7C:5-12 }			
NQ7:D1-4 }	N5:D1-16		
A7D:5-12 }			
NQ7:E1-4 }	N5:E1-16		
A7E:5-12 }			
NQ7:F1-4 }	N5:F1-16		
A7F:5-12 }			
		N5A	L4A
		N5B	
		N5C	L4B
		N5D	
		N5E	
		N5F	
		N5G	L4C
		N5H	L4D
NQ8	N6		
NQ9	N7PH	N6:1	
A9:T	N7TPH	N6:2	L5
NQ9:A1-2 }	N7:A1-3	N6A:1-6	L5A:1-3
A9A:3-6 }			
NQ9:B1-2 }	N7:B1-3		
A9B:3-6 }			

*In the codebook, the questions appear without the N prefix.

<u>NS11*</u>	<u>NS21</u>	<u>NS14</u>	<u>NS24</u>
NQ9:C1-2 } A9C:3-6 }	N7:C1-3	N6B:1-6	L5B:1-3
NQ9:D1-2 } A9D:3-6 }	N7:D1-3		
NQ9:E1-2 } A9E:3-6 }	N7:E1-3		
NQ9:F1-2 } A9F:3-6 }	N7:F1-3	N6C:1-6	L5C:1-3
NQ9:G1-2 } A9G:3-6 }	N7:G1-3	N6D:1-6	L5D:1-3
NQ9:H1-2 } A9H:3-6 }	N7:H1-3		
NQ9:I1-2 } A9I:3-6 }	N7:I(1-3)M N7:I(1-3)Y	{ N6E:1-6 N6E(1-6):YR N7	L5E:1-3 L5E(1-3):YR L6
NQ10 NQ10:A1-4 } A10A:5-8 }	N8RR N8:A1-8	N7A:1-8	L6A:1-5
NQ10:B(1-4)A } A10B1:5-8 } A10B:N1-4	N8:B1-8	N7B:1-8X	L6B:1-5X
NQ10:B(1-4)B } A10B2:5-8 }	N8:C1-8	N7B:1-8N	L6B:1-5N
NQ10:C1-4 } A10C:5-8 }	N8:D1-8	N7C:1-8	L6C:1-5
NQ10:D1-4 } A10D:5-8 }	N8:E1-8	N7D:1-8	L6D:1-5
NQ10:E1-4 } A10E:5-8 }	N8:F1-8	{ N7E:1-8L N7E:1-8U N7E:1-8O N7F:1-8	L6E:1-5L L6E:1-5U L6E:1-5O L6F:1-5
NQ11:1 NQ11:2 NQ11:3 NQ11:A1-4 } A11A:5-10 }	N9L } N9R } N9S } N9A1-10		L7 L7A:1-9
NQ11:B1-4 } A11B:5-10 }	N9B1-10		L7B:1-9
NQ11:C1-4 } A11C:5-10 }	N9C1-10		
NQ11:D1-4 } A11D:5-10 }	N9D1-10		L7C:1-9 L7D:1-9
NQ11:E(1-4)A } A11E1:5-10 }	N9E(1-10):1		
NQ11:E(1-4)B } A11E2:5-10 }	N9E(1-10):2		L7E:1-9E L7E:1-9S
NQ11:E(1-4)C } A11E3:5-10 }	N9E(1-10):3		L7E:1-9F
NQ11:E(1-4)D } A11E4:5-10 }	N9E(1-10):4		L7E:1-9I
NQ11:E(1-4)E } A11E5:5-10 }	N9E(1-10):5		L7E:1-9R
NQ11:E(1-4)F } A11E6:5-10 }	N9E(1-10):6		L7E:1-9N
NQ11:E(1-4)G } A11E7:5-10 }	N9E(1-10):7		L7E:1-9D
	N9E(1-10):8 N9E(1-10):9 N10:A1-2 N10:B1-2 N10:C1-2 N10:D1-2 N10:E1-2		L7E:1-9W L7E:1-9O

*In the codebook, the questions appear without the N prefix.

<u>NS11</u>	<u>NS21</u>	<u>NS14</u>	<u>NS24</u>
	N15:A	N11C	L10:A2
	N15:B	N11A-B	L10:B1
	N15:C		L10:B2
	N15:D		L10:C1
	N15:E		L10:C2
			L10:D1
			L10:D2
			L10:E1
			L10:E2
		N11D	
	N15:F	N11E	L10:F1
	N15:G		L10:F2
		N12A	
		N12B	
		N12C	

Neighborhood Street Observation Survey Index

<u>NO11</u>	<u>NO21</u>	<u>NO14</u>	<u>NO24</u>
NBE1-2	{ NCT:1-2A NCT:1-2B NBLK:1-2 NENUM:1-2A	PSC1-2 FSC1-2 NOBS TIMEB AMPMB TIMEE AMPME SSA SSB SSC } SSD }	FSC NOBS TIMEB AMPMB TIMEE AMPME NA NB NC
NCTBL1-2A			
NCTBL1-2B			
SO1	N1		
SO2	N2		
SO3	N3		
SO4	N4		
SO5	N5		
SO6	N6		
SO7	N7		
SO8	N8		
SO9	{ N9 N10		
SO10	N11		
SO11	N12		
SO12	N13		
SO13	N14		
SO14	N15		
SO15	N16		
SO16	N17		
SO17	N18		
SO18	{ N19 N20		
	N21		
SO19	N22	N7D	N7D
SO20	N23	N7E	N7E
SO21	N24	N7A	N7A
SO22	N25	N7B	N7B
SO23	N26	N7C	N7C
SO24	N27	N1A-F	N1A-F
SO25	N28	N2A-G	N2A-G
SO26	N29	N4	N4

<u>NO11</u>	<u>NO21</u>	<u>NO14</u>	<u>NO24</u>
SO27	N30	N5	N5
SO28	N31	N6	N6
SO29	N32	N3A-E	N3A-E
SO30A-B	N33:A-B		
		N8A-N	N8A-N
NDBVR	NDRVR	DRIV	DRIV
NRCDR	NRCDR	RCDR	RCDR
NCOMM	NCOMM	MN	MN
NCOMD	NCOMD	DAY	DAY
NCOMY		YR	YR

Validation Form

<u>NO11</u>	<u>NO21</u>	<u>NO14</u>	<u>NO24</u>
VNBHDCOD			
VNBHDSEG			
VNBE1-2			
VNCTBL1-2A			
VNCTBL1-2B			
		NVLPSC1-2	
		NVLFSC1-2	NVLFSC
		NVLOBS	NVLOBS
		NVLTIMEB	NVLTIMEB
		NVLAMPMB	NVLAMPMB
		NVLTIMEE	NVLTIMEE
		NVLAPME	NVLAMPME
		NVLA	NVLA
		NVLB	NVLB
		NVLC }	NVLC
		NVLD }	
VSO1	NVL1		
VSO2	NVL2		
VSO3	NVL3		
VSO4	NVL4		
VSO5	NVL5		
VSO6	NVL6		
VSO7	NVL7		
VSO8	NVL8		
VSO9	{ NVL9		
	{ NVL10		
VSO10	NVL11		
VSO11	NVL12		
VSO12	NVL13		
VSO13	NVL14		
VSO14	NVL15		
VSO15	NVL16		
VSO16	NVL17		
VSO17	NVL18		
VSO18	{ NVL19		
	{ NVL20		
	NVL21		
VSO19	NVL22	NVL7D	NVL7D
VSO20	NVL23	NVL7E	NVL7E
VSO21	NVL24	NVL7A	NVL7A
VSO22	NVL25	NVL7B	NVL7B
VSO23	NVL26	NVL7C	NVL7C
VSO24	NVL27	NVL1A-F	NVL1A-F
VSO25	NVL28	NVL2A-G	NVL2A-G
VSO26	NVL29	NVL4	NVL4
VSO27	NVL30	NVL5	NVL5
VSO28	NVL31	NVL6	NVL6
VSO29	NVL32	NVL3A-E	NVL3A-E
VSO30A-B	NVL33:A-B		
		NVL8A-N	NVL8A-N
VNDBVR	NVLDVR	NVLDTRIV	NVLDTRIV
VNRCDR	NVLRCDR	NVLRCDR	NVLRCDR

NO11VNCOMM
VNCOMD
VNCOMYNO21NVLCOMM
NVLCOMDNO14NVLMN
NVLDAY
NVLYRNO24NVLMN
NVLDAY
NVLYR

QUESTIONS OMITTED FROM CROSS-WAVE INDEXESLandlord Survey

LL11: VLLID:1, VIUPD, WAVE, VRSN, MODV, OPASS, AMODA, BMOBB, CMODC, DMOBB, EMODE, EJOB01-15, FMOBF, GMODG, HMODH, IMODI, VSQID, VMQID, VSWV, VMWV, VSLLID, VMLLID, VSCODE, VMCODE, RQID, RWV, RLLID, RCODE

LL21: VQID:1, A5:E1, A5:I1, B24:O1, B31:1-2L, C47:G1, EJOB:1-15, F57:1-3I, H24:K1, H30:J1, H50:H1, I12:N1, I17:H1, I21:H1, I23:8B, I27:G, I31:K1, I45:Q1, I50:H1, I51:I1, J2:A13, J4:A-C, J7A:A11, J8A:A11, J12:A11, J14:A11, J15:A-G, J15:6, J18:A9, PQID:1, PSITE, PWAVE, USITE, UWAVE, VCQID:1, VLQID:1, RQID:1, VCID, VCM, VCD, VCY, VCHRBG, VCMNBG, VCAPBG, VCSTAT

LL12: K1:C, K4:C, K7A:C, K8A:C, K9A:C, K12:C, K12C:C, K14:C, K18:C, K19:C, K21:C, K23:C, K30A:C, K32A:C, K37:C, K48:C, PQID, PATP, VLQID, VLATP, RQID, RATP

LL22: LATP, LSITE, LWAVE, K5B:1, K9A:11, K17A:6, K29A:5, K36:11, K48A, POFLAG, PATP, PSITE, PWAVE, USITE, UWAVE, USECT, VLATP, VLSITE, VLWAVE, RATP, RSITE, RWAVE

LL13: LATP, LSITE, LWAVE, K5B:1, K9A:11, K17A:6, K29A:5, K36:11, K48A, POFLAG, PATP, PSITE, PWAVE, USITE, UWAVE, USECT, VLATP, VLSITE, VLWAVE, RATP, RSITE, RWAVE

LL23: LATP, K5B:1, K9B:1, K10B:1, K11B:1, K13B:1, K14B:1, K15:19, K17B:1, K29B:1, K36:11, K46, K48:9, POFLAG, PATP, VLATP, RATP, DRATP

LL14: LATP, K5B:1, K9B:1, K10B:1, K11B:1, K13B:1, K14B:1, K15:19, K17B:1, K29B:1, K36:11, K46, K48:9, VLATP, VLSITE, VLWAVE

LL24: LATP, K5B:1, K9B:1, K10B:1, K11B:1, K13B:1, K14B:1, K15:19, K17B:1, K29B:1, K36:11, K48:9, PATP, VLATP, RATP, DRATP

Household Survey

TH11: AINID, ACOMM, ACOMD, ACOMY, AFSTA, B138:A1-2T, B138:B1-2T, B138:C1-2T, B142:A1-2M, B142:B1-2M, B142:C1-2M, B140:A1-2L, B140:B1-2L, B140:C1-2L, C130:A1-2T, C130:B1-2T, C130:C1-2T, C143:A1-2M, C143:B1-2M, C143:C1-2M, C65:A1-2L, C65:B1-2L, C65:C1-2L, G4:1-8, G41:A1-2T, G41:B1-2T, G41:C1-2T, G41:A1-2M, G41:B1-2M, G41:C1-2M, G40:A1-2L, G40:B1-2L, G40:C1-2L, TVLQID, MHVLQID, RVLQID, TRQID, TVQID, FIRST

TH21: BM39, BM53:2, BM126, CT2:BXX, CH80:N1, H2:A13, H4:A6, H7A:A11, H10:A9, H12:A11, H14:A11, H15:6, H18A:A6, H20A:6, H22A:6, VLQID, RQID, VCQID, PQID

TH12: CH91:N1, H1:CT, H4:CT, H7A:CT, H9:CT, H11:CT, H13:CT, H15:CT, H17:CT, H19:CT, H21, H22, H22A:A1-4, H23, H24:A1-4, H26:CT, H31:CT, H32:CT, H35:CT, H37A:CT, H53:CT, H61:CT, H65:CT, H68:CT, H72:CT, RVERS, VCVER, HHSTATUS, HH1-2, HHID1-2, HH4-7, HH9-12

TH22: A2:TP1-6, A2:B4D, A2:UNT, A2:ATU, A3:TP1-6, A3:B4D, A3:UNT, A3:ATU, A7:TP1-6, A7:B4D, A7:UNT, A7:ATU, A8:TP1-6, A8:B4D, A8:UNT, A8:ATU, A10:TP1-6, A10:B4D, A10:UNT, A10:ATU, A11:TP1-6, A11:B4D, A11:UNT, A11:ATU, BH23, BM39, BL90:A, G6A:1-14, H3:7C, H8A:11, H18:1-6, H18B:6, H19A:6, H20A:6, H22A:5, H23:6, H25:6, H26:6, H31A:6, H32:6, H34A:6, H41:1-4, H43:1-4, H45:1-4, H49:9, H53A:7, H56:1-5, H59:7, H60B:6, H61A:6, H63:6, H68A:6, H69A:6, H75A:5, H79A:6, H82:11, H88:4, H96:1-9, VLQID1, RQID1, VQID1, NQID1

TH13: A2:TP1-6, A2:B4D, A2:UNT, A2:ATU, A3:TP1-6, A3:B4D, A3:UNT, A3:ATU, A7:TP1-6, A7:B4D, A7:UNT, A7:ATU, A8:TP1-6, A8:B4D, A8:UNT, A8:ATU, A10:TP1-6, A10:B4D, A10:UNT, A10:ATU, A11:TP1-6, A11:B4D, A11:UNT, A11:ATU, BH23, BL90:A, G6A:1-14, H3:7C, H8A:11, H18:1-6, H18B:6, H19A:6, H20A:6, H22A:5, H23:6, H25:6, H26:6, H31A:6, H32:6, H34A:6, H41:1-4, H43:1-4, H45:1-4, H49:9, H53A:7, H56:1-5, H59:7, H60B:6, H61A:6, H63:6, H68A:6, H69A:6, H75A:5, H79A:6, H82:11, H88:4, H96:1-9, VLQID1, RQID1, VQID1, NQID1

TH23: DBLDG:1, DUNIT, H3:7, H7A:10, H8A:9, H9F:9, H10A:9, H11A:9, H12A:9, H13:16, H16:B6, H17:A6, H18:A6, H21:A5, H22:6, H24:6, H26:6, H31A:6, H33:6, H35A:6, H58:9, H70:7, H72A:6, H73A:6, H75:6, H80A:6, H81A:6, H92A:6, H95:11, H109:1-9, VLQID1, VLID2, RQID:1, DRQID:2, VQID1

TH14: DBLDG:1, DUNIT, H3:7, H7A:10, H8A:9, H9F:9, H10A:9, H11A:9, H12A:9, H13:16, H16:B6, H17:A6, H18:A6, H21:A5, H22:6, H24:6, H26:6, H31A:6, H33:6, H35A:6, H58:9, H70:7, H72A:6, H73A:6, H75:6, H80A:6, H81A:6, H92A:6, H95:11, H109:1-9, VLQID1, VLID2, RQID:1, DRQID:2, VQID1

TH24: CMQID:19, CMOID:24, H3:7, H7A:10, H8A:9, H9F:9, H10A:9, H11A:9, H12A:9, H13:16, H16:B6, H17:A6, H18:A6, H21:A5, H22:6, H24:6, H26:6, H31A:6, H33:6, H35A:6, H58:9, H70:7, H72A:6, H73A:6, H75:6, H80A:6, H81A:6, H92A:6, H95:11, H109:1-9, VLID2, RPASS, SPCD1-5

Survey of Residential Buildings

RB11: CD3

RB21: SITE, WAVE, AQID:1, AATP:2, VLAQID:1, RQID:1

RB12: AQID, AAQID, BBQID, BBLDG:1-9, BBFLR:1-9, UBLDG, USITE, UWAVE, VLQID, RQID

RB22: SITE, WAVE, AQID, VLQID, RQID

RB13: SITE, WAVE, AQID, VLCQID, RQID

RB23: SITE, WAVE, AQID, AMOD, BMOD, VAQID, VAMOD, VBMOD, RQID, RSDP:2-3

RB14: SITE, WAVE, AQID, AMOD, BMOD, VAQID, VAMOD, VBMOD, RQID, RSDP:2-3

RB24: SITE, WAVE, AQID, AMOD, BMOD, VAQID, VAMOD, VBMOD, RQID

Neighborhood Local Sources Survey

NS11: NIUPC, NDUM2, NDUM3

NS21: NSN, NWN

NS14: NSN, NWN

NS24: LQID:1, L:ST, L:WV, L6:2

Neighborhood Street Observation Survey

NO11: VQID, NSITE, NIUPC, NWVN, NHSNB1-2, NCT1-2A, NCT1-2B, NBLNB1-2, NBNUM1-2A, NBNUM1-2B, VNSITE, VNIUPC, VNWVN, VNHSNB1-2, VNCT1-2A, VNCT1-2B, VNBLNB1-2, VNBNUM1-2A, VNBNUM1-2B

NO14: SITE, WAVE, NVLSITE, NVLWAVE

NO24: QID:1, SITE, WAVE, NVLSITE, NVLWAVE

Appendix D

INDEX OF DERIVED VARIABLES

Tables D.1-D.4 list the derived variables that were built for each survey type and the files on which they appear (+) and do not appear (-). Users with a particular derived variable in mind may consult the appropriate table to determine the files on which it appears. Then, in the supplemental codebook[1] for the files of interest, the user will find a full definition of the variable, an explanation of its construction, a list of all permissible values, and frequencies of the unweighted values for all records on the file. To learn whether a derived variable has been built for a particular topic, the user should consult the topical index, Appendix B.

[1] In some cases, another codebook, as noted in the tables.

Table D.1

LANDLORD SURVEY DERIVED VARIABLES

Variable	LL11	LL21	LL12	LL22	LL13	LL23	LL14	LL24
ATP	+	+	+	+	+	+	+	+
ATTID*	-	-	+	+	-	-	+	+
BA20	+	+	+	+	+	+	+	+
BA34	+	+	+	-	-	-	-	-
BA35	+	+	+	-	-	-	-	-
BKID*	-	-	+	+	-	-	+	+
CBLOCK	+	+	+	+	+	+	+	+
CED	+	+	+	+	+	+	+	+
CODEBK	+	+	+	+	+	+	+	+
CTRACT	+	+	+	+	+	+	+	+
DRID	+	+	+	+	+	+	+	+
DS42	+	+	+	+	+	+	+	+
DUMREC	-	-	+	+	+	+	+	+
EA15	+	+	+	+	+	+	+	+
EQFACTOR	+	+	+	+	+	+	+	+
FARMADJ	-	+	+	+	+	+	+	+
FILENAME	+	+	+	+	+	+	+	+
FILLO01	+	+	+	+	+	+	+	+
FSCCAT	+	+	+	+	+	+	+	+
FSCWT	+	+	+	+	+	+	+	+
FSDISC	-	-	+	+	+	+	+	+
IDUPDT	-	-	+	+	+	+	+	+
INDBBTC	+	+	+	+	+	+	+	+
INDDRBJ*	-	-	+	+	-	-	+	+
INDECENT*	-	-	+	+	-	-	+	+
INDFARM	+	+	+	+	+	+	+	+
INDFC	+	+	+	+	+	+	+	+
INDIORBJ*	-	-	+	+	-	-	+	+
INDLORD*	-	-	+	+	-	-	+	+
INDPOS	-	-	+	+	+	+	+	+
INDPOSRI	-	-	-	+	+	+	+	+
INDPY	-	-	+	+	+	+	+	+
INDREFC	-	-	+	+	+	+	+	+
INDREG	-	-	+	+	+	+	+	+
INDSRC	+	-	-	-	-	-	-	-
IORID1*	-	-	+	+	-	-	+	+
IORID2*	-	-	+	+	-	-	+	+
IORID3*	-	-	+	+	-	-	+	+
IORID4*	-	-	+	+	-	-	+	+
IORID5*	-	-	+	+	-	-	+	+
IORID6*	-	-	+	+	-	-	+	+

NOTE: Starred variables are documented in attitude-module codebooks.

Table D.1 (cont.)

Variable	LL11	LL21	LL12	LL22	LL13	LL23	LL14	LL24
IORID7*	-	-	+	+	-	-	+	+
IORID8*	-	-	+	+	-	-	+	+
IORID9*	-	-	+	+	-	-	+	+
IORID10*	-	-	+	+	-	-	+	+
K27FLAG*	-	-	-	-	-	+	+	+
K30FLAG*	-	-	-	-	-	+	+	+
L2	+	+	+	+	+	+	+	+
L3	+	+	+	+	+	+	+	+
L5*	-	-	+	+	-	-	+	+
L6	+	+	+	+	+	+	+	+
L7	+	+	+	+	+	+	+	+
L9	+	+	+	+	+	+	+	+
L12	+	+	+	+	+	+	+	+
L16	+	+	+	+	+	+	+	+
L17	+	+	+	+	+	+	+	+
L19	+	+	+	+	+	+	+	+
L20	+	+	+	+	+	+	+	+
L21	+	+	+	+	+	+	+	+
L36	+	+	+	+	+	+	+	+
L38	-	+	+	+	+	+	+	+
MCOVREP	-	-	-	+	+	+	+	+
MNTHSCOV	+	+	+	+	+	+	+	+
MORTADJ	+	+	+	+	+	+	+	+
NBHDCODE	+	+	+	+	+	+	+	+
ORID	+	+	+	+	+	+	+	+
PANELS	-	-	+	+	+	+	+	+
PANSS	+	+	-	-	-	-	-	-
PARATP	-	-	+	+	+	+	+	+
POSCAT	-	+	+	+	+	+	+	+
PSS	+	+	+	+	+	+	+	+
REVPS	+	+	+	+	+	+	+	+
SAMWT	+	+	-	-	-	-	-	-
SITEWAVE	+	+	+	+	+	+	+	+
STRATUM	+	+	+	+	+	+	+	+
SUBATP	-	-	+	-	+	-	-	-
TENURE	+	+	+	+	+	+	+	+
T1	+	+	+	+	+	+	+	+
T2	+	+	+	+	+	+	+	+
T3	+	+	+	+	+	+	+	+
T5	+	+	+	+	+	+	+	+
T19	+	-	-	-	-	-	-	-
T25	+	+	+	+	+	+	+	+
T35	+	+	+	+	+	+	+	+

NOTE: Starred variables are documented in attitude-module codebooks.

Table D.1 (cont.)

Variable	LL11	LL21	LL12	LL22	LL13	LL23	LL14	LL24
T39*	-	-	+	+	-	-	+	+
T41*	-	-	+	+	-	-	+	+
T46	-	-	+	+	+	+	+	+
T47	-	-	+	+	+	+	+	+
T47A	-	+	-	-	-	-	-	-
T48	+	+	+	+	+	+	+	+
T49	-	+	+	+	+	+	+	+
WLATT*	-	-	+	+	-	-	+	+
WPATT*	-	-	+	+	-	-	+	+
W1TENURE	-	-	+	+	-	-	-	-
W2TENURE	-	-	-	-	+	+	-	-
W3TENURE	-	-	-	-	-	-	+	+
X1	+	+	+	+	+	+	+	+
X2	+	+	+	+	+	+	+	+
X3	+	+	+	+	+	+	+	+
X4	+	+	+	+	+	+	+	+
X5	+	+	+	+	+	+	+	+
X6	+	+	+	+	+	+	+	+
X8	+	+	+	+	+	+	+	+
X9	+	+	+	+	+	+	+	+
X28	+	+	+	+	+	+	+	+
X34	+	+	+	+	+	+	+	+
X35	+	+	+	+	+	+	+	+
X36	+	+	+	+	+	+	+	+
X38	+	+	+	+	+	+	+	+
X39	+	+	+	+	+	+	+	+
X40	+	+	+	+	+	+	+	+
X41	+	+	+	+	+	+	+	+
X43	+	+	+	+	+	+	+	+
X45	+	+	+	+	+	+	+	+
X59	-	-	+	+	+	+	+	+
X60	-	-	+	+	+	+	+	+
X61	-	-	+	+	+	+	+	+
X62	-	-	+	+	+	+	+	+
X63	+	+	+	+	+	+	+	+
X70	+	+	+	+	+	+	+	+
X71	+	+	+	+	+	+	+	+
X72	+	+	+	+	+	+	+	+
X73	+	+	+	+	+	+	+	+
X74	+	+	+	+	+	+	+	+
Y11	+	+	+	+	+	+	+	+
Y12	+	+	+	+	+	+	+	+
Y13	+	+	+	+	+	+	+	+

NOTE: Starred variables are documented in attitude-module codebooks.

Table D.1 (cont.)

Variable	LL11	LL21	LL12	LL22	LL13	LL23	LL14	LL24
Y14	-	+	-	+	-	+	-	+
Y15	+	+	+	+	+	+	+	+
Y17	+	+	+	+	+	+	+	+
Y21	+	+	+	+	+	+	+	+
Y22	+	+	+	+	+	+	+	+
Y23	+	+	+	+	+	+	+	+
Y24	+	+	+	+	+	+	+	+
Y25	+	+	+	+	+	+	+	+
Y31	+	+	+	+	+	+	+	+
Y32	+	+	+	+	+	+	+	+
Y34	+	+	+	+	+	+	+	+
Y35	+	+	+	+	+	+	+	+
Y40	+	+	+	+	+	+	+	+
Y41	+	-	+	+	+	+	+	+
Y42	+	+	+	+	+	+	+	+
Y49	+	+	+	+	+	+	+	+
Y50	+	+	+	+	+	+	+	+
Y51	+	+	+	+	+	+	+	+
Y52	+	+	+	+	+	+	+	+
Y53	+	+	+	+	+	+	+	+
Y54	+	+	+	+	+	+	+	+
Y55	+	+	+	+	+	+	+	+
Y56	+	+	+	+	+	+	+	+
Y58	+	+	+	+	+	+	+	+
Y59	+	+	+	+	+	+	+	+
Y60	+	+	+	+	+	+	+	+
Y61	+	+	+	+	+	+	+	+
Y62	+	+	+	+	+	+	+	+
Y63	+	+	+	+	+	+	+	+
Y67	+	+	+	+	+	+	+	+
Y68	+	+	+	+	+	+	+	+
Y70	+	+	+	+	+	+	+	+
Y79	+	+	+	+	+	+	+	+
Y93	+	+	+	+	+	+	+	+
Y94	+	+	+	+	+	+	+	+
Y95	+	+	+	+	+	+	+	+
Y96	+	+	+	+	+	+	+	+
Y97	+	+	+	+	+	+	+	+
Y98	+	+	+	+	+	+	+	+
Y99	+	+	+	+	+	+	+	+
Y100	+	+	+	+	+	+	+	+
Y101	+	+	+	+	+	+	+	+
Y102	+	+	+	+	+	+	+	+

NOTE: Starred variables are documented in attitude-module codebooks.

Table D.1 (cont.)

Variable	LL11	LL21	LL12	LL22	LL13	LL23	LL14	LL24
Y103	+	+	+	+	+	+	+	+
Y104	+	+	+	+	+	+	+	+
Y105	+	+	+	+	+	+	+	+
Y106	+	+	+	+	+	+	+	+
Y107	+	+	+	+	+	+	+	+
Y108	+	+	+	+	+	+	+	+
Y109	+	+	+	+	+	+	+	+
Y110	+	+	+	+	+	+	+	+
Y111	-	-	-	+	+	+	+	+
Y112	-	-	-	+	+	+	+	+
Y113	-	-	-	+	+	+	+	+
Y114	+	+	+	+	+	+	+	+
Y115	+	+	+	+	+	+	+	+
Y116	+	+	+	+	+	+	+	+
Y117	+	+	+	+	+	+	+	+
Y118	+	+	+	+	+	+	+	+
Y119	+	+	+	+	+	+	+	+
Y120	+	+	+	+	+	+	+	+
Y121	+	+	+	+	+	+	+	+
Y123	+	+	+	+	+	+	+	+
Y124	+	+	+	+	+	+	+	+
Y125	+	+	+	+	+	+	+	+
Y126	+	+	+	+	+	+	+	+
Y127	+	+	+	+	+	+	+	+
Y128	+	+	+	+	+	+	+	+
Y129	+	+	+	+	+	+	+	+
Y130	+	+	+	+	+	+	+	+
Y131	+	+	+	+	+	+	+	+
Y132	+	+	+	+	+	+	+	+
Y133	-	-	-	+	+	+	+	+
Y134	-	-	-	+	+	+	+	+
Y135	+	+	+	+	+	+	+	+
Y136	-	-	-	+	+	+	+	+
Y137	+	+	+	+	+	+	+	+
Y138	+	+	+	+	+	+	+	+
Y140	+	+	+	+	+	+	+	+
Y141	+	+	+	+	+	+	+	+
Y142	+	+	+	+	+	+	+	+
Y143	+	+	+	+	+	+	+	+
Y144	+	+	+	+	+	+	+	+
Y145	+	+	+	+	+	+	+	+
Y146	+	+	+	+	+	+	+	+
Y147	+	+	+	+	+	+	+	+

NOTE: Starred variables are documented in attitude-module codebooks.

Table D.1 (cont.)

Variable	LL11	LL21	LL12	LL22	LL13	LL23	LL14	LL24
Z1	+	+	+	+	+	+	+	+
Z2	+	+	+	+	+	+	+	+
Z8	+	+	+	+	+	+	+	+
Z9	+	+	+	+	+	+	+	+
Z31	+	+	-	-	-	-	-	-
Z41	+	+	+	+	+	+	+	+
Z42	+	+	+	+	+	+	+	+
Z43	+	+	+	+	+	+	+	+
Z44	+	+	+	+	+	+	+	+
Z45	+	+	+	+	+	+	+	+
Z53	+	+	+	+	+	+	+	+
Z56	-	-	-	+	+	+	+	+
Z57	-	-	-	+	+	+	+	+
Z58	-	-	-	+	+	+	+	+
Z63	+	+	+	+	+	+	+	+
Z64	-	-	+	+	+	+	+	+
Z65	-	-	-	+	+	+	+	+
Z67	+	+	+	+	+	+	+	+
Z68	+	+	+	+	+	+	+	+

SOURCE: Tabulated by HASE staff from records of the landlord survey, all waves.

NOTE: Starred variables are documented in attitude-module codebooks.

Table D.2 (cont.)

Variable	TH11	TH21	TH12	TH22	TH13	TH23	TH14	TH24
UO	+	+	+	+	+	+	+	+
UR	+	+	+	+	+	+	+	+
US	+	+	+	+	+	+	+	+
USTAT	+	+	+	+	+	+	+	+
UTYPE	+	+	+	+	+	+	+	+
UW	+	+	+	+	+	+	+	+
W1	+	+	+	+	+	+	+	+
W2	+	+	+	+	+	+	+	+
W3	+	+	+	+	+	+	+	+
W4	+	+	+	+	+	+	+	+
W5	+	+	+	+	+	+	+	+
W6	+	+	+	+	+	+	+	+
W7	+	+	+	+	+	+	+	+
W8	+	+	+	+	+	+	+	+
W9	+	+	+	+	+	+	+	+
W10	+	+	+	+	+	+	+	+
W11	+	+	+	+	+	+	+	+
W12	+	+	+	+	+	+	+	+
W1B21T	-	-	+	-	-	-	-	-
YAGG	-	+	+	+	+	+	+	+
YCMPLT	+	+	+	+	+	+	+	+
YCPWT	+	+	+	+	+	+	+	+
YMISS	+	+	+	+	+	+	+	+
YMIS2	+	+	+	+	+	+	+	+

SOURCE: Tabulated by HASE staff from records of the household survey, all waves.

Table D.3 (cont.)

Variable	RB11	RB21	RB12	RB22	RB13	RB23	RB14	RB24
FINSTR	+	+	+	+	+	+	+	+
FLOOR	-	+	+	+	+	+	+	+
FSCCAT	+	+	+	+	+	+	+	+
FSDISC	-	-	+	+	+	+	+	+
GARGECP	-	+	+	+	+	+	+	+
GRDNG	-	-	-	-	-	+	+	+
GUTTRS	-	+	+	+	+	+	+	+
IDUPDT	-	-	+	+	+	+	+	+
INSTRWY	-	+	+	+	+	+	+	+
INTDOR	-	+	+	+	+	+	+	+
INTWAL	-	+	+	+	+	+	+	+
INTWNDW	-	+	+	+	+	+	+	+
LAWN	-	-	-	-	-	+	+	+
LNDSCP	-	+	+	+	+	+	+	+
LNDSCPNG	-	+	+	+	+	+	+	+
LTNG	-	+	+	+	+	+	+	+
MAILBX	-	+	+	+	+	+	+	+
MAIN	-	-	-	-	-	+	+	+
MODB	-	-	+	+	+	+	+	+
NBHDCODE	+	+	+	+	+	+	+	+
OLDB15	-	-	+	-	-	-	-	-
ORID	+	+	+	+	+	+	+	+
OUTBLDG	-	+	+	+	+	+	+	+
PATP	-	-	+	+	+	+	+	+
PBALCNY	-	+	+	+	+	+	+	+
PBANSTR	-	+	+	+	+	+	+	+
PBLDG	-	-	+	+	+	+	+	+
PBLDLND	-	-	-	-	-	+	+	+
PCEILNG	-	+	+	+	+	+	+	+
PCHIMNY	-	+	+	+	+	+	+	+
PCLNPOR	-	+	+	+	+	-	-	-
PELEVTR	-	+	+	+	+	-	-	-
PERMDR	-	+	+	+	+	+	+	+
PERMPN	-	-	+	+	+	+	+	+
PEXSTRWY	-	+	+	+	+	+	+	+
PEXTWAL	-	+	+	+	+	+	+	+
PEXTWNDW	-	+	+	+	+	+	+	+
PFLOOR	-	+	+	+	+	+	+	+
PGRDNG	-	-	-	-	-	+	+	+
PGUTTRS	-	+	+	+	+	+	+	+
PID	-	-	+	+	+	+	+	+
PINSTRWY	-	+	+	+	+	+	+	+
PINTDOR	-	+	+	+	+	+	+	+
PINTWAL	-	+	+	+	+	+	+	+
PINTWNDW	-	+	+	+	+	+	+	+

Table D.3 (cont.)

Variable	RB11	RB21	RB12	RB22	RB13	RB23	RB14	RB24
PLAWN	-	-	-	-	-	+	+	+
PLNDSCP	-	+	+	+	+	+	+	+
PLTNG	-	+	+	+	+	+	+	+
PMAILBX	-	+	+	+	+	+	+	+
PMAIN	-	-	-	-	-	+	+	+
PORCH	-	+	+	+	+	+	+	+
POUTBLDG	-	+	+	+	+	+	+	+
PPERMDR	-	+	+	+	+	+	+	+
PPORCH	-	+	+	+	+	+	+	+
PPUBWLK	-	-	-	-	-	+	+	+
PROOF	-	+	+	+	+	+	+	+
PSCRNDR	-	+	+	+	+	-	-	-
PSCRNWDW	-	+	+	+	+	-	-	-
PSIDWLK	-	+	+	+	+	+	+	+
PSS	-	+	+	-	-	-	+	+
PSTREET	-	+	+	+	+	+	+	+
PSTRMDR	-	+	+	+	+	-	-	-
PSTRMWDW	-	+	+	+	+	-	-	-
PUBWLK	-	-	-	-	-	+	+	+
PVBALCNY	-	-	-	-	-	+	+	+
PVBANSTR	-	-	-	-	-	+	+	+
PVBLDLND	-	-	-	-	-	+	+	+
PVCEILING	-	-	-	-	-	+	+	+
PVCHIMNY	-	-	-	-	-	+	+	+
PVEXSTWY	-	-	-	-	-	+	+	+
PVEXTWAL	-	+	+	+	+	+	+	+
PVEXWNDW	-	-	-	-	-	+	+	+
PVFLOOR	-	+	+	+	+	+	+	+
PVGRDNG	-	-	-	-	-	+	+	+
PVGUTTRS	-	-	-	-	-	+	+	+
PVINSTWY	-	-	-	-	-	+	+	+
PVINTDOR	-	-	-	-	-	+	+	+
PVINTWAL	-	+	+	+	+	+	+	+
PVINWNDW	-	-	-	-	-	+	+	+
PVLAWN	-	-	-	-	-	+	+	+
PVLNDSCP	-	-	-	-	+	+	+	+
PVLTNG	-	-	-	-	-	+	+	+
PVMAILBX	-	-	-	-	-	+	+	+
PVMAIN	-	-	-	-	-	+	+	+
PVOUTBLD	-	-	-	-	+	+	+	+
PVPERMDR	-	-	-	-	-	+	+	+
PVPORCH	-	-	-	-	-	+	+	+
PVPUBWLK	-	-	-	-	-	+	+	+
PVROOF	-	-	-	-	-	+	+	+
PVSIDWLK	-	-	-	-	-	+	+	+

Table D.3 (cont.)

Variable	RB11	RB21	RB12	RB22	RB13	RB23	RB14	RB24
PVSTREET	-	+	+	+	+	+	+	+
PVYARD	-	-	-	-	+	+	+	+
PYARD	-	+	+	+	+	+	+	+
RBALCNY	-	+	+	+	+	+	+	+
RBANSTR	-	+	+	+	+	+	+	+
RBLDLND	-	-	-	-	-	+	+	+
RCEILNG	-	+	+	+	+	+	+	+
RCHIMNY	-	+	+	+	+	+	+	+
RCLNPOR	-	+	+	+	+	-	-	-
RECSTA	-	-	+	+	+	+	+	+
REFLDFSC	-	-	+	-	-	-	-	-
RELEVTR	-	+	+	+	+	-	-	-
REVPS	-	+	+	-	-	-	+	+
REXSTRWY	-	+	+	+	+	+	+	+
REXTWAL	-	+	+	+	+	+	+	+
REXTWNDW	-	+	+	+	+	+	+	+
RFLOOR	-	+	+	+	+	+	+	+
RFMAT	-	+	+	+	+	+	+	+
RFTYPE	-	+	+	+	+	+	+	+
RGRDNG	-	-	-	-	-	+	+	+
RGUTTRS	-	+	+	+	+	+	+	+
RINSTRWY	-	+	+	+	+	+	+	+
RINTDOR	-	+	+	+	+	+	+	+
RINTWAL	-	+	+	+	+	+	+	+
RINTWNDW	-	+	+	+	+	+	+	+
RLAWN	-	-	-	-	-	+	+	+
RLNDSCP	-	+	+	+	+	+	+	+
RLTNG	-	+	+	+	+	+	+	+
RMAILBX	-	+	+	+	+	+	+	+
RMAIN	-	-	-	-	-	+	+	+
ROOF	-	+	+	+	+	+	+	+
ROUTBLDG	-	+	+	+	+	+	+	+
RPAN	-	-	+	+	+	+	+	+
RPERMDR	-	+	+	+	+	+	+	+
RPORCH	-	+	+	+	+	+	+	+
RPUBWLK	-	-	-	-	-	+	+	+
RROOF	-	+	+	+	+	+	+	+
RSCRNDR	-	+	+	+	+	-	-	-
RSCRNWDW	-	+	+	+	+	-	-	-
RSIDWLK	-	+	+	+	+	+	+	+
RSTREET	-	+	+	+	+	+	+	+
RSTRMDR	-	+	+	+	+	-	-	-
RSTRMWDW	-	+	+	+	+	-	-	-
RVBALCNY	-	-	-	-	-	+	+	+
RVBANSTR	-	-	-	-	-	+	+	+

Table D.3 (cont.)

Variable	RB11	RB21	RB12	RB22	RB13	RB23	RB14	RB24
RVBLDLND	-	-	-	-	-	+	+	+
RVCEILNG	-	-	-	-	-	+	+	+
RVCHIMNY	-	-	-	-	-	+	+	+
RVEXSTWY	-	-	-	-	-	+	+	+
RVEXTWAL	-	+	+	+	+	+	+	+
RVEXWNDW	-	-	-	-	-	+	+	+
RVFLOOR	-	+	+	+	+	+	+	+
RVGRDNG	-	-	-	-	-	+	+	+
RVGUTTRS	-	-	-	-	-	+	+	+
RVINSTWY	-	-	-	-	-	+	+	+
RVINTDOR	-	-	-	-	-	+	+	+
RVINTWAL	-	+	+	+	+	+	+	+
RVINWNDW	-	-	-	-	-	+	+	+
RVLAWN	-	-	-	-	-	+	+	+
RVLNDSCP	-	-	-	-	+	+	+	+
RVLTING	-	-	-	-	-	+	+	+
RVMAILBX	-	-	-	-	-	+	+	+
RVMAIN	-	-	-	-	-	+	+	+
RVOUTBLD	-	-	-	-	+	+	+	+
RVPERMDR	-	-	-	-	-	+	+	+
RVPORCH	-	-	-	-	-	+	+	+
RVPUBWLK	-	-	-	-	-	+	+	+
RVROOF	-	-	-	-	-	+	+	+
RVSIDWLK	-	-	-	-	-	+	+	+
RVSTREET	-	+	+	+	+	+	+	+
RVYARD	-	-	-	-	+	+	+	+
RYARD	-	+	+	+	+	+	+	+
SAMWT	-	+	-	-	-	-	-	-
SATP	-	-	+	-	+	-	-	-
SBLDG	-	-	+	-	+	-	-	-
SCRNDR	-	+	+	+	+	-	-	-
SCRNWDW	-	+	+	+	+	-	-	-
SID	-	-	+	-	+	-	-	-
SIDWLK	-	+	+	+	+	+	+	+
SITEWAVE	+	+	+	+	+	+	+	+
SRBSTA	+	+	+	+	+	+	+	+
STREET	-	+	+	+	+	+	+	+
STRMDR	-	+	+	+	+	-	-	-
STRMWDW	-	+	+	+	+	-	-	-
SWTCH	-	-	+	-	-	-	-	-
VBALCNY	-	-	-	-	-	+	+	+
VBANSTR	-	-	-	-	-	+	+	+
VBLDLND	-	-	-	-	-	+	+	+
VCEILNG	-	-	-	-	-	+	+	+
VCHIMNY	-	-	-	-	-	+	+	+

Table D.3 (cont.)

Variable	RB11	RB21	RB12	RB22	RB13	RB23	RB14	RB24
VEXSTWY	-	-	-	-	-	+	+	+
VEXTWAL	-	+	+	+	+	+	+	+
VEXWNDW	-	-	-	-	-	+	+	+
VFLOOR	-	+	+	+	+	+	+	+
VGRDNG	-	-	-	-	-	+	+	+
VGUTTRS	-	-	-	-	-	+	+	+
VINSTWY	-	-	-	-	-	+	+	+
VINTDOR	-	-	-	-	-	+	+	+
VINTWAL	-	+	+	+	+	+	+	+
VINWNDW	-	-	-	-	-	+	+	+
VLAWN	-	-	-	-	-	+	+	+
VLNDSCP	-	-	-	-	+	+	+	+
VLING	-	-	-	-	-	+	+	+
VMAILBX	-	-	-	-	-	+	+	+
VMAIN	-	-	-	-	-	+	+	+
VOUTBLD	-	-	-	-	+	+	+	+
VPERMDR	-	-	-	-	-	+	+	+
VPORCH	-	-	-	-	-	+	+	+
VPUBWLK	-	-	-	-	-	+	+	+
VRFMAT	-	-	-	-	-	+	+	+
VRFTYPE	-	+	+	+	+	+	+	+
VROOF	-	-	-	-	-	+	+	+
VSIDWLK	-	-	-	-	-	+	+	+
VSTREET	-	+	+	+	+	+	+	+
VXWLMAT	-	+	+	+	+	+	+	+
VYARD	-	-	-	-	+	+	+	+
WOODCOMP	-	+	+	+	+	+	+	+
WITENURE	-	-	+	-	-	-	-	-
YARD	-	+	+	+	+	+	+	+

SOURCE: Tabulated by HASE staff from records of the survey of residential buildings, all waves.

Table D.4

NEIGHBORHOOD SURVEY DERIVED VARIABLES

Variable	NS11	NO11	NS21	NO21	NS14	NO14	NS24	NO24
ACRES	+	-	+	-	+	-	+	-
AREA	+	+	-	-	+	-	-	-
AUDITCNT	-	-	-	+	-	+	-	+
BASESEG	-	-	-	-	-	+	-	+
CBLOCK	-	-	-	-	-	+	-	+
CBLOCK1	-	-	-	-	-	-	-	+
CBLOCK2	-	-	-	-	-	-	-	+
CED	-	-	-	-	-	+	-	+
CED1	-	-	-	-	-	+	-	+
CED2	-	-	-	-	-	+	-	+
CITY	+	+	-	-	+	-	-	-
CLN	+	-	+	-	+	-	+	-
CMPR1	-	-	-	-	-	+	-	+
CMPR2	-	-	-	-	-	+	-	-
CMPR2A	-	-	-	-	-	+	-	+
CMPR2B	-	-	-	-	-	+	-	-
CMPR3	-	-	-	-	-	+	-	+
CODEBK	-	-	-	-	-	+	-	+
TRACT	-	-	-	-	-	+	-	+
TRACT1	-	-	-	-	-	-	-	+
TRACT2	-	-	-	-	-	-	-	+
DATASUB	-	-	-	-	-	+	-	+
DISTR	+	-	+	-	+	-	+	-
DIST1CBD	+	-	+	-	+	-	+	-
DIST2CBD	+	-	-	-	+	-	-	-
DIST3CBD	-	-	+	-	-	-	+	-
FEMP	-	-	+	-	+	-	+	-
FILENAME	+	+	+	+	+	+	+	+
FSC	-	-	-	-	-	+	-	-
GAE1	+	-	+	-	+	-	+	-
GAE2	+	-	+	-	+	-	+	-
INCONFLG	-	+	-	+	-	+	-	+
MEMP	-	-	+	-	+	-	+	-
NBHD	+	+	+	+	+	+	+	+
NBHDSEG	-	+	-	+	-	+	-	+
NBRESB	-	-	-	-	-	+	-	+
QPS	+	-	+	-	+	-	+	-
QRB	+	-	+	-	+	-	+	-
QRL	+	-	+	-	+	-	+	-
QSW	+	-	+	-	+	-	+	-

NOTE: Variables built for the wave 4 files (last four columns) are documented in the main neighborhood survey codebooks.

Table D.4 (cont.)

Variable	NS11	NO11	NS21	NO21	NS14	NO14	NS24	NO24
QVL	+	-	+	-	+	-	+	-
RCLN	-	-	-	-	-	+	-	+
RPS	-	-	-	-	-	+	-	+
RSW	-	-	-	-	-	+	-	+
SITWAVE	+	+	+	+	+	+	+	+
URBNBHD	+	+	+	-	-	-	+	-
VALIDATB	-	+	-	-	-	+	-	+
VALIDATE	-	+	-	-	-	-	-	+
WGTFEMP	+	-	+	-	+	-	+	-
WGTMEMP	+	-	+	-	+	-	+	-
X	+	-	+	-	+	-	+	-
Y	+	-	+	-	+	-	+	-

SOURCE: Tabulated by HASE staff from records of the neighborhood local sources and street observation surveys, all waves.

NOTE: Variables built for the wave 4 files (last four columns) are documented in the main neighborhood survey codebooks.

