### 3.0 THE 1985 NATIONAL SAMPLE

The AHS sample underwent a major redesign in the years following the release of data from the 1980 census. The 1985 National Sample not only reflects the use of 1980 Census data but differs from the previous 1983 AHS sample with respect to the following major elements:

- A decrease in the number of PSUs from 461 to 401,
- A decrease in the number of housing units eligible for interview from 71,800 to 48,000,
- A change in the within-ED sampling procedure intended to reduce the contribution to the variance of estimates made by this stage of sampling,
- Improvements in the sampling of building permits to include new construction,
- Improvements in the methods for maximizing the coverage of housing units not represented in the 1980 Census or building permit frames, and
- A new supplementary sample of neighbors of AHS sample housing units.

### 3.1 <u>Selection of Sample Areas</u>

In the redesigned National AHS, there are a total of 401 strata. Of the total number of strata, there are 177 self-representing strata containing only one PSU which was selected with certainty. Those PSUs not contained in self-representing strata were grouped into 224 non-self representing strata. The task of grouping PSUs into strata was accomplished by employing a multivariate clustering algorithm. Tenure, race of householder, change in the housing inventory from 1970 to 1980, change in the population from 1970 to 1980, and value of housing were the AHS stratifiers which were the input variables to the clustering algorithm. One PSU was selected from each non-self-representing stratum with probability proportionate to the 1985 projected number of housing units in the PSU. The redesigned National AHS therefore contains 401 PSUs in total. There was no formation of a smaller sampling plan nested within the sampling plan just described. (This smaller design was referred to as Sampling Plan B in Section 1.1 above.)

## 3.2 Sampling Rates Within Sample PSUs

The national average sampling rate for the 1985 National AHS was around 1 in 1,900. As was the case for the 1973 National AHS design, two samples of approximately equal size were generated. The first sample was the primary or basic sample while the second sample was referred to as the supplementary sample. That portion of the supplementary sample which fell in rural areas constituted the rural supplement. The rural supplement will be enumerated in 1987, 1991, and 1995.

In the address EDs of sample PSUs, systematic samples of housing units were selected from the 1980 Census Sample Housing Unit Record File. A housing unit record on this file contains all data recorded on the housing unit's 1980 Census questionnaire except the housing unit's address and telephone number. To select the two samples (i.e., the primary and supplementary samples), the within-PSU sampling rate was doubled and every other sample hit was assigned to the supplementary sample.

In areas EDs of each sample PSU, four 1980 Census housing units were drawn from the address listings in each sample area segment, and these were assigned to the primary sample. Four additional units were selected from the same area segment, and these were assigned to the supplementary sample. (Refer to Section 1.3.B for the definition off an area segment.) The within-PSU sampling interval was adjusted to account for the fact that four units were being selected from an area segment for the primary sample and four units were being selected from the same segment for the supplementary sample.

Building permits were also sampled to represent newly constructed housing units that were built after the 1980 Census. The within-PSU new construction sampling intervals were adjusted so that every other new construction sample hit was assigned to the supplementary sample.

# 3.3 <u>Description of the Within-PSU Sampling Frames</u>

# 3.3.A The List or Address Enumeration District Frame

Enumeration districts (EDs) having a proportion of addresses which were complete and accurate of 96 percent or more were classified as list or address EDs in both the old National AHS and the new National AHS. The list of addresses for an ED is found in the census ED address register, generated in the census enumeration. An address ED must be geographically located within a jurisdiction which issues building permits for new construction.

In the 1973 National AHS design, clusters of housing units were selected from Census ED address registers. Prior to the formation of clusters, enumeration districts were sampled according to the procedures described in Section 1.3.

In the 1985 National AHS design, an unclustered systematic sample of housing units was selected in address EDs, using th 1980 Census Sample Housing Unit Record File. Enumeration districts no longer had to be sampled, as there was no need to key ED address registers or construct clusters of housing units. Since the 1980 Census Sample Housing Units Record file was used as the address ED sampling frame, it was possible to use 1980 Census housing characteristics as AHS stratifiers so that the reliability of the survey estimates would be increased. Housing unit records on the 1980 Census Sample Housing Unit Record file located in a sample PSU were stratified according to the following characteristics:

1. Geographic Location (Central City, Urbanized Area outside of Central City, Urban outside of Urbanized Areas, Rural)

- 2. Tenure
- 3. Number of Rooms
- 4. Value of Unit (for Owner-Occupied Units)
  Gross Rent (for Renter-Occupied Units)

To fully understand the differences between the address ED component of the old and new AHS National sample designs, it is necessary to discuss the major differences between the Census ED address registers and the Census Sample Housing Unit Record File. As mentioned earlier, a record on the Census Housing Unit Record File contains all data recorded on the housing unit's 1980 Census Questionnaire except the housing units address and telephone number. The Census ED address register is a list of housing unit addresses within an ED recorded by Census enumerators who canvassed the Ed. A listing line in the Census address register included the Street name and house number of the address where applicable, the block number of the address, the number of the housing units at the address, and the Census serial numbers assigned to the housing units at each address.

Housing unit records that are adjacent to one another on the Census Sample Housing Unit Record File do not necessarily correspond to housing units that are physically adjacent, yet listing lines which are adjacent on the Census ED address register do correspond to housing units which are physically adjacent. It is apparent that the Census ED address registers are a much better resource than the Census Housing Unit Record File for constructing compact clusters of housing units.

Listing lines of the Ed address registers, while corresponding to neighboring housing units, do not contain any demographic information about the housing units at the addresses, so that if stratification of housing units was to be undertaken, the stratifiers had to correspond to geographic characteristics such as those mentioned in Section 1.3.

The old National AHS address Ed design can be compared to the new National AHS address ED design from the perspective of sampling variance. With respect to variance, the unclustered, stratified, systematic sample of the new design will produce survey estimates with lower variances than the clustered sample of the old design.

## 3.3.B The Area Enumeration District Frame

An enumeration district could be classified as an area ED either because it was not within a jurisdiction which issued building permits for new construction or it was within a jurisdiction which issued building permits for new construction, but more than 4 percent of the addresses within the ED were incomplete.

The methods of sampling area segments in the new AHS National design were similar to those used in the old National design, yet the selection methods within the sample area segment differed between the old and new designs. Since in the new design the sample area segment correspond to an administrative block used in the 1980 Census canvassing

operations, it was possible to identify addresses of housing units in the sample area segment that were recorded in the ED address register, as the administrative block number was present for all addresses in the ED address register.

The objective of the within-area segment sample selection was to first choose four housing units which had received the 1980 Census long-form questionnaires for the primary sample, and then choose four housing units which had received the 1980 Census long-form questionnaires for the rural supplement using the ED address register listings. It should be noted that the selection of housing units which were 1980 Census long-form questionnaire recipients within area EDs results in 1980 being the starting point for any longitudinal analysis involving long-form questionnaire variables such as household income, monthly utility costs, year built, etc. rather than the first AHS enumeration, using the new National AHS design, being the starting point for the longitudinal analysis. If there was an insufficient number of housing units which had received long-form questionnaires within the area segment from which to draw, then housing units which had received short-form questionnaires were selected for the primary and/or the rural supplemental sample so that there were four primary sample housing units and four rural supplement housing units. Since the sample units had been designated using census ED address registers, there were addresses available for the sample units. If the addresses were incomplete, the enumerator was given the address listings for all housing units in the administrative block. These were then given to AHS interviewers so that they could locate sample housing units within area segments. It should be stressed that the sampling procedures just described were applicable to both permit-issuing area EDs and non-permit issuing area EDs.

## 3.3.C The Building Permit Frame

The method of sampling building permits to represent new construction in the new AHS National sample design was similar to the building permit sampling methods used in the old design (see Section 1.3.B) with three exceptions.

In the new AHS National design, clusters of four new construction units were formed using building permit information from sample building permit offices, and then they were sampled. When the sample clusters were identified, one new construction unit was subsampled from each cluster. This sampling method would result in AHS new construction estimates having smaller variances than new construction estimates derived from sample clusters of two or four new construction units as was done in the old design.

The National AHS new construction sampling was coordinated with the new construction sampling of other Census Bureau demographic surveys. The sampling of AHS new construction clusters was executed so as to maximize the overlap between the AHS sample permit offices and the sample permit offices of other demographic surveys.

Whereas in the old National AHS sample design, one-half of the new construction cluster was allocated to the primary sample and one-half to the rural supplement sample, in the new design, the new construction sampling rates for the selection of clusters were doubled so that every other sample cluster was assigned to the rural supplement sample.

The third exception was the starting permit issuance date for the new construction sampling. In the old design, the starting point for sampling new construction was the permit issuance date of January 1970. In the new design, the starting date for permit sampling varied by region and size of structure. Table 3.2 shows the starting permit issuance for the region and size of structure categories. An explanation of the origin of these starting dates is provided in Section 3.5.C discussing coverage improvement sampling.

### 3.4 Exclusive Use of Small Multi-Unit Structures

In the redesigned AHS National sample, no other current Census Bureau demographic survey will have sample clusters in multi-unit structures having two to fifteen units, and containing AHS sample units. Sampling methods were devised for the address ED, area ED, and building permit sampling to achieve this condition. This sampling design feature will make it possible for AHS to overcome the difficulties, inherent in the old AHS National design, of maintaining a longitudinal record of splits and mergers of housing units because AHS and one or more of the current Census Bureau demographic surveys had sample units in a multi-unit structure. Although AHS does not have exclusive use of multi-unit structures of sixteen or more units, only a minor percentage of the total number of mergers and splits of housing units is found in these larger multi-unit structures.

## 3.5 Coverage Improvement Samples

There were housing units that did not appear on any of the sampling frames previously discussed, and unless steps were taken to construct sampling frames or use sampling frames not listed in Sections 3.3 to give representation to housing units missing from address ED, area ED, and building permit frames, the survey estimates could be potentially biased.

# 3.5.A Coverage Improvement in Address EDs

# Use of 1980 Census Coverage Improvement Housing Unit Samples

As stated previously, the AHS address and area ED sampling frame was the 1980 Census Sample Housing Unit Record File, and obviously housing units not enumerated in the 1980 Census would not be represented by this frame. The Housing Unit Coverage Study (HUCS) was undertaken as part of the 1980 Census Coverage Evaluation program. In this study, the April 1980 CPS A-sample units were matched to Census records. Those units which could not be matched to the Census were considered Census misses. Census misses which were in 1980-design sample PSUs became HUCS sample housing units. For the redesigned AHS National Survey, 300 HUCS sample housing units were selected from the HUCS nonmatches to give representation to housing units in address and area EDs missed in the 1980 Census.

# Use of Health Interview Survey Segment Listing Sheets

The previous section describes how the Housing Unit Coverage Study was used to locate housing units that existed at the time of the 1980 Census enumeration but were missed by census enumerators. It was also necessary to devise a sampling plan that would pick up

housing units that would not have been within the scope of the Housing Unit Coverage Study. The sampling plan had to pick up non-residential-to residential conversions, mobile homes in parks established after the 1980 Census, mobile homes established at new addresses outside of mobile parks after the 1980 Census, and housing units moved to new sites after the 1980 Census.

The sampling plan designed for coverage improvement in address EDs utilized segment listing sheets compiled by Health Interview Survey enumerators. The sample clusters of housing units in the Health Interview Survey were selected from an all-area segment sample design; that is, no sample clusters were constructed and selected from 1980 census generated lists of housing units. The HIS area segments located within address EDs corresponded to Census official blocks or block partitions. As the Census official block or block partition was an area segment, HIS field enumerators canvassed the block and listed all housing units in the block in late 1984. A "year built" question was asked of each housing unit that was listed by the HIS field enumerator, since residential structures built after April 1980 would have been sampled in the HIS building permit frame.

Sample clusters were not designated in all HIS sample area segments. A subsample of HIS sample area segments, where the listing operation was done but no designation of sample clusters occurred, was selected by AHS. Two noncompact clusters, each cluster composed of four housing units, were selected from the subsampled HIS sample area segments. An attempt was made to match the addresses of housing units in the sample clusters shown on the HIS listing sheets to census ED address register listings for those housing units built prior to April 1, 1980. Housing units which were nonmatches were then screened in the field by AHS enumerators to see if they were housing units which met AHS eligibility requirements. If they did, then they were added to the AHS address ED coverage improvement sample.

## 3.5.B Coverage Improvement in Area EDs

In AHS sample area segments, sample clusters of housing units had been designated from the area segment listing sheets completed by field enumerators. (Refer to Section 1.3.B for a description of the designation of clusters in area segments.) In nonpermit-issuing area EDs, one sample cluster was designated, and in permit-issuing EDs two sample clusters were designated from the area segment listing sheets whenever possible. Coverage Improvement Screener forms were administered to housing units in each sample cluster. In permit-issuing area EDs, new construction housing units were sampled from the building permit universe, so that housing units in sample clusters built after April 1, 1980 were deleted from further screening. Addresses of listed units within sample clusters built prior to April 1, 1980 were matched to the appropriate ED Address Register, and nonmatches were added to the AHS coverage improvement sample. In nonpermit-issuing EDs, listed units in sample clusters which were new construction units as well as sample cluster units which could not be matched to listings in census Ed Address Registers were added to the AHS sample. The AHS sampling plan in area EDs had been designed so that AHS would have exclusive use of their sample area segments; that is, no other survey would have sample clusters in the area segment. AHS would then have a chance to select any unit that was added to the sample area segment between the initial listing and subsequent updates of the area segment.

### 3.5.C New Construction Permit Lag

In the old AHS National design, the building permit universe was composed of permits issued from January 1, 1970 up through five months before the AHS National Survey began. As the average time from permit issuance to building completion was five months, structures associated with permits issued in January would have been completed after the 1970 Census, so that duplication between the building permit frame and the Census housing unit address list frame would have been prevented. Unfortunately, there were a considerable number of structures whose building permits had been issued prior to January 1, 1970 and which were not completed until after the Census. These housing units were not represented in either the building permit universe or on the 1970 Census Housing Unit file and they are referred to as permit lag units (see Section 1.4). In the new National AHS sample design, the optimal month defining the building permit universe start point was derived using the following approach. Given any month prior to the 1980 Census Day, a number of housing units associated with building permits issued in this month and all months up to March 31st would be completed by Census Day. There would also be a number of housing units associated with building permits issued before the given month and all months prior which would not be completed until after April 1, 1980. It is evident that housing units in the first group have two chances of being selected, one in the building permit universe and the other in the Census Housing Unit Record file, while the housing units in the second group have no chance of being selected. The dates shown in Table 3-1 are the point at which the two group sizes are equal, so that each permit lag housing unit is represented by a census duplicate which has a chance of being selected in the building permit sampling as well as the census list sampling.

PERMIT ISSUANCE DATES DEFINING PERMIT ELIGIBILITY
FOR NEW CONSTRUCTION SAMPLING

Size	1	Monthly	Reporte	rs	Annual Reporters
of		Re	egion		All
Structure	NE	NC	South	West	Regions
1-2 units	7/79	8/79	9/79	7/79	180
3-4 units	6/79	6/79	7/79	7/79	′79
5+ units	7/78	4/79	3/79	3/79	′79

### 3.6 Neighbors' Sample

As part of the 1985 National AHS design, a sample of neighbors was generated, where a group of neighbors was considered a compact cluster of housing units. The Department of housing and Urban Development is interested in determining the degree of homogeneity among adjacent housing units and persons residing within these housing units with respect to demographic characteristics such as tenure, type of structure, age, gross rent, race, and value of unit. Also of interest was the change or transition in groups of neighbors with respect to these characteristics.

Housing units selected in the address ED, area ED, and the building permit frames were subsampled, and the subsampled housing units were designated neighbor group kernels. Field enumerators were given the address of the neighbor group kernel and told to locate the ten housing units closest to the neighbor group kernel and list their addresses. A total of 680 sample groups of neighbors were formed with 566 located in address EDs, 63 located in sample area segments, and 51 located in new construction developments. The neighbor group sample will be interviewed in 1985, 1989, and 1993. If there were fewer than ten units near the kernel, or if some could not be interviewed, the cluster has fewer than ten neighbors.

## 4.0 METROPOLITAN STATISTICAL AREA (MSA) SAMPLE SELECTION

The purpose of the AHS-Metropolitan Statistical Area sample is to provide estimates of housing characteristics for individual MSAs. The MSAs selected for the AHS are interviewed on a rotating basis. A list of 60 MSAs was non-randomly selected to represent the largest and fastest growing MSAs. This sample was originally intended to be the basis of a three-panel, 60 MSA survey, with groups of the 60 MSAs being interviewed each year, providing a representative sample of the nation. The largest MSAs were initially interviewed with large samples. From 1978 on, however, budget cutbacks forced the sample sizes to be reduced (see below for more details).

Within the selected MSAs, MSA samples were drawn in the same way as described for the national sample with the following exceptions:

Each MSA was divided into permit-issuing areas and non-permit-issuing areas, which were then sampled separately.

EDs of Type B, where permits are required for new construction and addresses compiled for the 1970 Census were incomplete or inadequate, do not use area samples in the MSA surveys as they do in the national sample. They use address listings, just like Type C EDs. They were rare enough in the selected MSAs that the risk of not being able to find the unit based on its inadequate address was considered acceptable. To help find the unit, the enumerator was given a list of the five units on either side of the sample unit, and the name of the 1970 occupant.

Central cities were sampled separately from the rest of each MSA. The sampling rate, nevertheless, was about the same in central cities as in the suburbs of each MSA, except for 12 MSAs where especially large samples were drawn. These 12 can be identified in Table 4 of the Geography Section. In these 12, equal sample sizes were taken from the central city and suburban portions of the MSA, so the sampling rates were different.

In address-listing areas, sampling was based on the 20 percent of units which answered "long form" questionnaires in the 1970 Census.

Occupied and vacant housing units were sampled separately from special places and group quarters.

Occupied housing units were stratified by race (non-Black/Black); tenure (owner/renter); number of persons related to head, including head (1, 2, 3, 4, 5+); and income of head and relatives (\$0-3K, 3-6K, 6-10K, 10-15K, 15+K) -- a total of 100 strata.

Vacant units were stratified into four categories: inexpensive (under \$80 rent or \$15,000 value), medium, expensive (\$120+ rent or \$25,000+ value), and other (i.e., units not for sale or rent, such as seasonally vacant units).

Special places and group quarters were stratified by census tract and census ED within Central City and within the suburban portions of the MSAs.

Clusters of two were used for the sample from long-form questionnaires. This means two adjacent questionnaires were chosen from the stratified list of questionnaires. The units were not necessarily geographically close. Clusters of four were used for area segments, building permits, special places, and group quarters.

Building permits are sampled up to 5 months before the end of interviewing, not the beginning.

In address-listing areas, new units in sample structures are not listed and are not sampled. Such units were therefore included in the Coverage Improvement Program.

Coverage improvement for new construction (after April 1, 1970) from old permits (before January 1, 1970) was conducted substantially differently from the national sample. A sample of permit offices was taken and a sample of 1969 permits in them, wherever data could be obtained. One-to-two unit structures were then sampled at one-fourth the normal AHS rate for the MSA. Larger structures were subdivided into clusters of two and sampled at one-half the normal rate. In MSAs where necessary data could not obtained, permits identified by the Survey of Construction were sampled at one-third the normal rate.

### 5.0 CHANGES IN THE MSA SAMPLE

Unlike the National Survey, the AHS-MSA Survey was not totally redesigned, yet important changes occurred. MSAs that remained in the sample were redefined to conform with the

1983 Census boundaries; new MSAs were added while MSAs were dropped. For Houston, a totally new sample was drawn from the 1980 Census. In some MSAs, certain areas containing existing sample were targeted for sample supplementation. These areas containing existing housing units selected from the 1970 Census Housing Unit Record files are referred to as salted zones, and sample supplementation was necessary in these areas to prevent confidentiality problems with the release of survey micro-data.

Starting in 1984, there are 44 MSAs in the Survey which have been divided into four groups. Each group will be interviewed on a four-year cycle. (See Table 2 in the Introduction to the Codebook.)

## 5.1 Sampling Frame Used for Selection of New Sample

In addition to new MSAs, new samples of housing units were selected for counties or MCDs appended to an MSA whose geographical definition had been updated, and for salted zones of an MSA where 1970 Census-based sample housing units existed. For counties or MCDs (Minor Civil Divisions) added to the MSA due to the change in the MSA definition and for new MSAs, permit-issuing enumeration districts were separated from nonpermit-issuing enumeration districts as the sample selection procedures for permit-issuing EDs differed from the sample selection procedures for nonpermit-issuing EDs. New samples were selected in the permit-issuing portions of salted zones. All new sample housing units located in permitissuing enumeration districts were selected from the 1980 Census Complete Count Housing Unit Record file. Note that in the 1970 Census-based design, housing units were selected from the 1970 Census Sample Housing Unit Record file which included a sample of about twenty percent of the housing units enumerated in the 1970 Census and given a "long-form" questionnaire. For a MSA having salted zones and new counties or MCDs, due to the change in the MSA definition, the salted zones had to be sampled separately from the added counties or MCDs as the sampling rate used in salted zones differed from the one used in added counties or MCDs.

# 5.2 Stratification for New Sample Selection in Permit Issuing EDs

Housing unit records on the 1980 Census Complete Count Housing Unit Record file, for housing units located in permit-issuing EDs of salted zones or appended counties and MCDs, were stratified according to the following variables:

- 1. Central City of MSA/Balance of MSA
- 2. Tenure
- 3. Contract Rent
- 4. Value
- 5. Number of Rooms

Renter-related strata were oversampled from the 1980 Complete Count Housing Unit Record file. It should be noted that this stratification plan differed considerably from the stratification plan used in the 1970 Census-based design.

When housing units were initially selected from the 1970 Census materials for the MSA Survey, central cities were sampled separately from the rest of each MSA (see Section 4.0 above). Samples of housing were selected form salted zones and/or new counties or MCDs within an existing MSA in such a way so that the final weights of sample housing units located in the central city were equal to the final weights of sample housing units located in the balance of the MSA.

For the 1980 Census-based survey component, a distinction was made between institutionalized group quarters and non-institutionalized group quarters. Group quarters were classified as institutional if there were one or more persons under care of custody such as nursing homes, halfway houses, and orphanages. Examples of non-institutional group quarters are rooming and boarding houses, hotels and motels, and college dormitories. Sampling procedures used for the non-institutionalized group quarters remained the same as those instituted by the 1970 Census-based sampling, but for institutionalized group quarters, each institution was given a measure of size one and they were selected using equal probability systematic sampling.

## 5.3 Cluster Sizes Used in New Sample Selection

Whereas the 1970 Census-based sampling procedure in permit-issuing EDs resulted in the selection of clusters of two adjacent long-form questionnaires from the stratified list of census sample housing units, the 1980 Census-based sample in permit-issuing areas was unclustered. New sample units selected in permit-issuing EDs were split into two equal-sized replicates. The replicates were formed by assigning every other sample hit to the second replicate.

Clusters of two new construction units formed using building permit information were selected in the new construction sampling in the 1980 Census-based survey component, while new construction clusters of size four were used in the 1970 Census-based survey component. In the salted zones, new MSAs, and added counties and MCDs, clusters of four newly constructed units were initially formed from permits within a sample building permit office. These clusters were then sampled. The procedures for the formation and the sampling of the clusters of size four did not differ from the procedures used in the new construction sampling of the 1970s, but following the sample selection of clusters of size four, two housing units were randomly selected from the clusters of size four.

# 5.4 Reduction of MSA Survey Samples

In the original design, each MSA sample is divided into 12 equal-sized and equally representative parts. Each month a different one is interviewed. A few interviews may extend into the following month, and new construction may be interviewed even later in the year, but these units are still considered to "belong" to the panel in which they were

originally assigned, and are identified in IMONTH as belonging to that panel, regardless of when they are interviewed. An overall sample cut-back was undertaken in 1977, by omitting the March panel. In 1981 five more panels were omitted for large-sample MSAs, so that in three MSAs (Boston, Detroit, and Washington) only the June-August and October panels were interviewed. In 1982, the sample was reduced in the remaining nine panels for 7 of 12 MSAs to achieve a sample size of 4,250 units in all MSAs. In 1983 and later surveys, all MSAs were cut back, particularly among owned units, to have a smaller sample size, with at least half the sample being renters whenever possible. No interviewing is done in January through March from 1983 on; any cases retained from those panels have been assigned new panel numbers. The purpose of oversampling renters was to increase the reliability of HUD estimates of rent level in each market.

The housing units selected from the 1980 Census Complete Count Housing Unit Record file for salted zones, new counties or MCDs within existing MSAs, and new MSAs were not part of the 1984 and 1985 Survey sample reductions.

In the 1985 Survey reduction, clusters consisting of owner-occupied housing units, clusters consisting of renter housing units, and clusters consisting of both renter and owner-occupied housing units were all reduced, although the reduction rates were lowest for clusters consisting of renter housing units. Subsamples of housing unit clusters that had been deleted in the previous enumeration sample reduction were reinstated for the 1985 AHS-MSA Survey. Prior to the subsampling, clusters were stratified by MSA sector (central city versus balance). Wherever possible, reinstated housing units were from panels 04-09 (April-December). Following the reduction and reinstatement procedures, all housing units remaining in panels 01-03 (January-March) were reassigned to panels 04-12.

#### CHAPTER 4: ALLOCATION VARIABLES

As described under 'Missing Data' in the Introduction, some variables have Not Answered codes (8, 98, etc.) to show missing data, while other variables have data allocated from a similar home, so the data do not appear to be missing. When data in one variable are allocated, a code is put into another variable, the allocation variable, to show that the data really were missing in the original interview. For surveys from 1984 on, the Missing Data section in the Introduction explained how to use the record layout to find the allocation variables. For surveys up through 1983, this section shows the allocation variables, the codes in them, and how many cases in each file have each code.

Each allocation variable, like ALL03, is present on each household, to show when allocations are made in <u>three</u> other variables. For example, in 1981N, ALL03 is present on every household to show whether NUNITS, PHONE, or MOVED was allocated in that household:

If ALL03 is

- 0 then none of the variables is allocated in this household
- 1 then only NUNITS is allocated
- 2 then only PHONE is allocated
- 3 then NUNITS and PHONE are both allocated
- 4 then only MOVED is allocated
- 5 then NUNITS and MOVED are allocated
- 6 then PHONE and MOVED are allocated
- 7 then all three variables are allocated
- 9 then none of the variables is allocated

Thus any of codes 1, 3, 5, or 7 means that the variable NUNITS is allocated. Similarly, 2, 3, 6, or 7 means that PHONE is allocated, and 4, 5, 6, or 7 means that MOVED is allocated.

The value entered below the allocation variable is a "combination code." These combination codes have the following meanings:

- The allocation was made if the allocation variable is 1, 3, 5, or 7
- The allocation was made if the allocation variable is 2, 3, 6, or 7
- The allocation was made if the allocation variable is 4, 5, 6, or 7

Note that more than one allocation variable may be listed for one variable. For example, the variable ZRENT (Recoded Gross Rent) has one allocation variable for each component of gross rent which was subject to allocation (cost of electricity, cost of gas, contract rent, etc). In our example for NUNITS, two allocation variables are listed for all SMSA survey years prior to 1984, reflecting the fact that a different allocation variable was used if the unit was occupied or vacant.

## Location and Field Length in the Computer Tapes

On the CTAP line, the first number shows the starting column of the variable on the Census Bureau tapes, and the second number shows the field length.

Similarly, the location on the Abt tapes is shown on the ATAP line. Again, the first number shows the starting column number and the second shows the field length. As described in the Introduction to the <u>Codebook</u>, Abt tapes have been reformatted: one layout is used for all national files; another layout is used for SMSA files. Therefore, there are only two entries on the ATAP line: an entry in the 81N column applies to all national files; an entry in the 82S column applies to all SMSA files.

OF   H   OF   OF	83N 81N	80N	<b>N</b>	78N	K.	76N	NS7	74N 7	73N 83S	\$ 82s	818	808	295	788	77S	<b>292</b>	758	748
15   15   15   15   15   15   15   15	00TPRB3 REF.3030																	
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#### **Allocation Procedures**

The Census Bureau uses a technique known as "hot decking" to allocate missing answers: it assigns a value to unanswered questions by copying the response of the last similar unit processed. The criteria used to define "similar" units are shown in the matrices on the next pages. In general, they include tenure, age, sex, race, and general unit descriptors. Users may decide that the allocation criteria used by the Census Bureau do not meet their own analysis requirements and may wish to reallocate missing values according to different criteria.

Before the processing of an AHS file, a series of matrices are created. These matrices are used to allocate missing answers in the order that they appear in the file. Unit are processed in geographic order, so the last similar unit is normally located in approximately the same neighborhood. The Census Bureau has occasionally changed its allocation criteria. For simplicity, we present here the general matrices that were used until 1983 and the revised matrices which were used starting in 1984. In practice, there are many more matrices, one for each variable subject to allocation and, in some cases, different matrices are used for different types of household members for a given variable.

Until 1983, there were three basic matrices. Matrix 1 was used to allocate missing values for NUNITS (number of units in the Building) and FLOORS (number of stories in the building). Matrix 2 was used to allocate all other variables subject to allocation with the exception of the Income Variables which were allocated according to the criteria shown in Matrix 3. A different Matrix 3 is used for income from different sources and for different types of household members. (See footnotes to Matrix 1).

Starting in 1984, the criteria for allocations were refined, but the basic allocation procedures remain unchanged. The revised allocation criteria are shown in matrices 7 through 10. For example, the number of rooms in the unit (bedrooms, kitchens, bathrooms, etc.) and utility costs are now allocated on the basis of household size (see Matrix 5) and heating fuel (see Matrix 7) rather than race, sex, and number of units in the building. The criteria for allocating income variables have also changed, as a result of changes in the information being collected starting in 1984 (see Matrices 9 and 10).

As AHS records are processed, the value of each variable encountered on the record being read is entered in the appropriate cell of the appropriate matrix, as long as the answer is not missing. For example, if the record being read in 1983 pertains to a owner-occupied unit, with a non-black reference person, located in a 2 unit building (NUNITS=4), the value "4" is entered in the top cell of Matrix 1. (Owner, Non-Black Reference Person). The matrix is updated each time that a record contains a reported value (i.e., non-missing). When a missing value is encountered, the last value found in the appropriate cell of the appropriate matrix is used to allocate the missing answer. The process continues until all records in the file are processed.

#### 1974-1983 Allocation Matrices

### MATRIX 1: NUNITS and FLOORS:

Occupied or URE:		<u>A11</u>
Owner:	Non-Black Reference Person	$\overline{\mathbf{x}}$
	Black Reference Person	x
Renter:	Non-Black Reference Person	x
	Black Reference Person	x
Vacant		X

#### MATRIX 2: All Other Variables Except Income

		Mob	ile	· Or	ne ne	· Tv	vo +
		H	omes	<u>U</u> 1	nit	U1	nits
		Male	Female	Male	Female	Male	Female
Occupied or URE:							
Owner:	Non-Black Reference Person	X	x	x	x	X	X
	Black Reference Person	X	Χ	X	X	X	X
Renter:	Non-Black Reference Person	X	X	x	x	X	X
	Black Reference Person	x	Χ .	x	x	X	X
Vacant:	For Sale				x		X
	For Rent				x		X
	Other				X		X

#### MATRIX 3: Income Variables

		N	on-Bl	ack Re	feren	ce Per	son			_ <u>B</u>	lack	Referen	ce Pe	rson			
		Ag	c							Ag	c						
		_<	<u> 25</u>	<u> 25</u> -	34	<u>35</u> .	<u>-64</u>	65	+	_<	<u> 25</u>	<u>25</u> -	<u>34</u>	<u>35-</u>	-64	6.	5+
		M	F	M	F	M	F	M	F	<u>M</u>	F	<u>M</u>	F	<u>M</u>	F	<u>M</u>	F
Owner:	Value < \$10,000	$\overline{\mathbf{x}}$	x	$\bar{\mathbf{x}}$	x	$\overline{\mathbf{x}}$	$\bar{\mathbf{x}}$	$\bar{\mathbf{x}}$	$\bar{\mathbf{x}}$	$\overline{\mathbf{x}}$	$\bar{\mathbf{x}}$	X	$\bar{\mathbf{x}}$	X	X	X	X
	\$10-24,999	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	<b>\$</b> 25-49,999	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	\$50,000 or more	х	X	X	X	x	х	X	X	x	X	X	X	x	X	x	X
Renter:	Contract Rent < \$100	X	X	X	X	x	X	X	X	X	X	X	X	X	X	X	X
	\$100-149	Х	X	X	X	X	X	х	X	X	X	X	X	X	X	x	X
	\$150-199	X	X	X	X	X	X	x	X	X	X	X	X	х	X	x	X
	\$200 or more	X	X	X	X	. <b>X</b>	X	X	X	X	X	Х	X	X	X	X	X

Notes: For non-relatives, their own race, age, and sex are used instead of the Reference Person's.

- For wage & salary, there are separate matrices for: reference person, spouse, child of reference person, head of any subfamily, spouse of any subfamily, child of any subfamily, other relatives, non-relatives.
- For farm and business income, there are four matrices: for farms and for businesses, respectively and for relatives and non-relatives.
- For all other income sources, there are three matrices for each variable: for 1 person families, 2-3 people,
   4 + people, there is one matrix for each variable relating to non-relatives.

#### 1984-1993 Allocation Matrices

MATRIX 4: Number of Units in the Building (NUNITS)

		Numb	er of Stories	in the Buildi	ng (FLOO)	RS)
	1-4	<u>5-7</u>	8-14	<u>15-20</u>	<u> 21'+</u>	Missing or NA
Occupied or URE						
Owner	X	x	X	X	X	X
Renter	X	x	x	x	x	X
Vacant	x	X	x	X	X	x

MATRIX 5: Number Bedrooms, Full Bathrooms, Kitchen, Living Rooms, Dining Rooms, Family Rooms, Business Rooms, and Other Rooms

			HOUS	EHOLD SIZ	E (PER)		
	1	2	3	4	<u>5</u> X	<u>6</u> X	7+ X
Occupied: Owner	X	Х	X	Х		^	
Renter	x	X	X	x	x	х	X
Vacant for Rent	x	X	X	. <b>X</b>	X	X	X
Vacant for Sale	x	X	X	X	X	X	, X
URE and Other Vacant	x	x	x	x	<b>X</b> .	x	X

MATRIX 6: Number of Stories (FLOORS)

	Number of Units in the Building (NUNIT)									
	1	2-4	<u>5-9</u>	10-19	20-49	<u>50+</u>				
Occupied or URE:										
Owner	X	x	x	x	x	X				
Renter	x	x	x	x	x	X				
Vacant	x	x	X	x	X	x				

MATRIX 7: Utility Use and Costs (Electricity, Gas, Fuel Oil, Other, Garbage/Trash, Water and Sewage)

				Heating Fuel				
			Electricity		G	Gas		her
			Male	Female	Male	Female	Male	Female
Occupied:					•	v	v	x
	Owner:	Non-Black Reference Person	X	X	X	X	^	
		Black Reference Person	х	X	X	. X	Х	X
Renter:	Non-Black Reference Person	· X	X	x	X	X	x	
•	Kului.	Black Reference Person	x	X	x	x	x	X ·
URE:	Owner	<b>222 No. 0. 0</b>	x			x		X
01.2.	Renter		X X		X X			X
Vacant:	For Rent						x	
v availle.	For Sale			x		X		X

MATRIX 8: All Other variables except Income

			Mobile Home_		One	Unit_	2+ Units		
			Male	Female	Malc	Female	Malc	Female	
Occupied:									
-	wner:	Non-Black Reference Person	X	X	x	x	x	X	
		Black Reference Person	X	x	X	x	X	X	
Re	enter:	Non-Black Reference Person	X	x	X	X .	X	X	
440		Black Reference Person	х	x	x	x	X	x	
URE & Vacant:		Renter or For Rent	X X		x x		X X		
		Owner or For Sale							
		Other Vacant		x		X		x	

MATRIX 9: Wage and Salary Income of Family Members and Total Income of Non-Relatives

		Non-Bi	ack Family	Black Family Members				
		Age			Age			
		<u>&lt;25</u>	<u>25-64</u>	<u>65+</u>	<u>&lt;25</u> <u>25-6</u>		65+	
		<u>M</u> <u>F</u>	M F	M F	M F	MF	M F	
Owners:	Value < \$60,000	XX	X X	X X	XX	XX	$\bar{\mathbf{x}}$ $\bar{\mathbf{x}}$	
	\$60,000 or more	хх	хх	хх	хх	хх	хх	
Renters:	Contract Rent < \$300	хх	хх	хх	$\mathbf{x} \mathbf{x}$	хх	хх	
	\$300 +	хх	$\mathbf{x}_{\perp}\mathbf{x}_{\parallel}$	хх	хх	хх	X X	

Note: Separate matrices are constructed for the reference person, spouse of reference person, child of reference person, head of any subfamily, spouse of any subfamily, child of any subfamily, other relatives, and non-relatives. Each person age, race, and sex is used.

MATRIX 10: Other Sources of Income for Family Members

		Non-Black Family Members						Black Family Members						
		Age						Age						
	•	_<25		<b>25-64</b>		65+		<	<25 25		<u>-64 6</u>		55+	
		<u>M</u>	F	M	F	M	F	M	F	M	F	M	F	
One Perso	on Family					_		_	_	_	_		_	
Owners:	Value < \$60,000	X	χ .	X	X	X	X	x	X	X	X	X	X	
	\$60,000 or more	X	X	X	X	X	X	X	X	X	X	X	X	
Renters:	Contract Rent < \$300	X	X	X	X	X	X	X	X	X	X	X	X	
	\$300 +	x	X	X	X	X	X	X	X	X	X	X	X	
Two or M	fore Persons													
Owners:	Value < \$60,000	X	X	Х	X	Х	Х	x	Х	X	X	х	х	
	\$60,000 or more	х	X	X	X	Х	X	X	X	X	X	X	X	
Renters:	Contract Rent < \$300	X	X	х	x	x	x	х	x	X	X	X	X	
	\$300 +	X	X	X	X	x	X	X	X	X	X	X	x	

Note: All together there are 18 matrices to allocate <u>family</u> income from other sources (other than wage and salary):
nine matrices to allocate whether any family member receives income from nine different sources: Business,
Farm, Social Security, etc. and nine matrices to allocate the combined family income amount from these other
sources depending on the type(s) of income sources reported.