

Chapter I. INTRODUCTION

The Scope of This Report

The purpose of this report is to examine the results of the procedures used to control the quality of the field enumeration for the 1960 Censuses of Population and Housing, which were the first U.S. censuses to use "statistical quality control" for field operations. This report is based primarily on a post-census analysis of samples of the records maintained and used in a span of a few weeks to regulate the activities of about 180,000 temporary field employees covering an area of 3 million square miles.

The quality control records were all supposed to be sent from the District Offices to the Jeffersonville Operations Office in Indiana at the completion of the enumeration. Insofar as the District Offices neglected to send all their forms to Jeffersonville or insofar as forms were lost en route, results obtained from these samples are biased if there are any respects in which the forms from which the samples were drawn were not representative of the total.

Certain aspects of the results could be checked by sample examination of the enumeration books themselves. Before the enumeration began, a national sample composed of 681 enumeration districts (ED's) was selected (for other purposes) by the Bureau of the Census. The Stage I and Stage II enumeration books for these ED's were specially microfilmed. In Washington, after the censuses, the District Office sample quality control inspections for these enumeration books were repeated and other types of inspection were made using this microfilm.

Except for discussing coverage of housing units and households in Stage I, this analysis does not treat underenumeration or overenumeration, which is the subject of other evaluation programs. Additionally, this report is concerned primarily with whether or not the correct steps were taken to obtain census information, not with whether correct data were actually obtained. The latter also is covered by other programs.

The Census Staff

At the peak (April 7, 1960) of the field enumeration for the 1960 censuses there were about 157,000 enumerators, 10,000 crew leaders, 10,000 field reviewers, and an estimated 2,000 other people scattered among the 399 temporary District Offices in the continental United States—a total of almost 180,000 people. One month later there were only about 8,000 people working on the censuses. Two months later there were fewer than 500.

All of the personnel of the District Offices were recruited in the 3 months preceding the census date, April 1, 1960. The training program for these people began in February 1960, when 39 professionals, most of them staff members of the Bureau of the Census, were given a 5-day training course in Washington, D.C. They, in turn, trained the 405 Technical Officers who were to be located in the District Offices and the 68 Program Technicians to be located in the 17 permanent Regional Offices. On March 14 the Technical Officers began to train the crew leaders. The crew leaders received from 3 to 5 days of training, depending upon the type of district in which they were to work. On March 28, 1960, the crew leaders began to train the enumerators. The evening of March 31 ("T-night") the first enumerators were on the streets canvassing hotels, motels, and other places having accommodations for 50 or more transient guests. The regular census enumeration began the next morning, on April 1, 1960.

The Method of Census Enumeration

There were three kinds of enumeration areas: (1) Rural areas, for which the enumerators received additional pay for mileage, where special questions to determine farm residence were asked. (2) Urban block areas, for which some of the census items were to be tabulated by city block. These included all cities which had a population of 50,000 or more in 1950 and some smaller cities that had contracted with the Bureau of the Census for the special report. (3) Urban nonblock areas. Roughly one-third of the United States population fell into each of these three types.

In the 10 days preceding April 1, 1960, the Post Office distributed a brief questionnaire called an Advance Census Report to occupied housing units throughout the country. This questionnaire contained all the population and housing items that were to be asked on a 100-percent basis. The Advance Census Reports were to be filled out in the household and held for the enumerator's visit.

Every housing unit, occupied or vacant, was to be visited by an enumerator. At the household the enumerator transcribed the information from the Advance Census Report—or if the report had not been filled out, information obtained by questioning the householder—to special census forms that were designed for later processing by a highspeed electronic machine called the "Film Optical Sensing Device for Input to Computers" (Fosdic). He also recorded on the Fosdic form the information for a few housing items—such as condition of the housing unit—which he obtained by observation.

The enumerator recorded the responses to the 100-percent questions in books of these Fosdic forms by penciling in the appropriate small circles.

The entire area of the country was divided into enumeration districts (ED's), estimated to contain no more than 1,500 inhabitants. One ED, or a neighboring group of two or three small ED's, was assigned to one enumerator and called an enumeration assignment (EA). For each EA, an enumerator received a map, enumeration books of 100-percent Fosdic forms, and a Listing Book.

The Listing Book, in which the enumerator recorded the address, name of the household head, and number of occupants, for every housing unit in the order of visit,

was used as both an administrative aid to locating the units and a record of what had been accomplished. When a housing unit had been enumerated, the page number upon which it was recorded in the enumeration book was entered in the Listing Book.

The Listing Book cover contained a sample key or random start ("A", "B", "C", or "D") to be used for the first housing unit in the EA, and these letters were assigned in sequence thereafter. For every housing unit with a sample key of "A" (that is, every fourth housing unit), and for every fourth person in group quarters (institutions for nontransient residents, such as jails and sanitariums), more detailed data were to be obtained.

In each of the three types of areas—rural, urban block, and urban nonblock—this sample information was collected in most enumeration districts, including 80 percent of the housing units and households in the United States, as Stage II of a two-stage procedure. The Stage I enumerator obtained the information collected on a 100-percent basis, and at every fourth housing unit, if occupied, left a Household Questionnaire containing the questions to be asked on a sample basis. The householder was to fill out this Household Questionnaire and mail it to the District Office. Stage II of the two-stage enumeration procedure consisted of transcribing the data from the Household Questionnaires to the books of sample Fosdic forms and phoning or visiting households for which no Household Questionnaire, or an incomplete Household Questionnaire, had been received, and obtaining the sample housing information for vacant housing units by phoning or visiting the owner, manager, or rental agency. For the rest of the enumeration districts a "single-stage" procedure was used whereby the enumerator gathered the sample information at the same time as he gathered the 100-percent, but also in two separate enumeration books.

The data collected on housing differed by the type of area in which the housing unit was located, and not all questions were asked for all sample housing units. The sample rate for the various housing questions was either 5, 20, or 25 percent. Table 2 shows the sampling rate for each housing item. All sample population items were collected on a 25-percent basis.

Table 1.—Estimated Number and Proportion of Enumeration Assignments (EA's) and Estimated Number of Enumeration Districts (ED's) by Type of Enumeration and Area

Type of enumeration and type of area	Enumeration assignments (EA's)			Estimated number of enumeration districts (ED's)
	Estimated number	Proportion		
		By stage	Of total	
Total.....	171,000	-	1.00	272,600
Two-stage.....	137,000	1.00	.80	218,080
Urban block.....	54,800	.40	.32	87,232
Urban nonblock....	41,100	.30	.24	65,424
Rural.....	41,100	.30	.24	65,424
Single-stage.....	34,000	1.00	.20	54,520
Urban block.....	6,800	.20	.04	10,904
Urban nonblock....	8,500	.25	.05	13,630
Rural.....	18,700	.55	.11	29,986

¹After splits made in the field.

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Table 2.--Population and Housing Items: Sample Rates and Error Rates

(Error rates shown are lack of response or inconsistencies in responses)

Question	Type of person or housing unit for which response required	Type of area	Sample rate (percent)	Error rates								
				Two-stage areas ¹				Single-stage areas ¹			Combined two-stage and single-stage areas ²	
				First review	Final review	Office review	National sample	Final review	Office review	National sample	National sample	Computer count
100-Percent Items.....	(X)	All	100	.007	.003	.007	.009	.004	.007	(NA)	(NA)	(NA)
100-percent population items ³	All	All	100	.007	.002	.006	.007	.003	.006	(NA)	(NA)	(NA)
P1, H1, Sample key (review to see that entries were identical).	All households and housing units.	All	100	(NA)	(NA)	.006	.012	(NA)	.009	(NA)	(NA)	(NA)
P1, H1, Sample key (review to see that sample order was correct).	All households and housing units.	All	100	.019	.003	(NA)	(NA)	.004	(NA)	(NA)	(NA)	(NA)
P2, Name.....	All persons	All	100	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(X)
P3, Relationship to head of household (field review here was only to see if a head was indicated for each household)...	All	All	100	.005	.003	.004	.006	.004	.005	(NA)	(NA)	.005
P4, Sex.....	All	All	100	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	⁴ .004
P5, Color or race (field review here was only to see that race was specified in detail for "Other").....	All	All	100	(B)	(B)	(NA)	(NA)	(B)	(NA)	(NA)	(NA)	⁵ .004
P6, Month, decade, and year of birth (field review here was only to check age for consistency with P3).....	All	All	100	.005	.001	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
P7, Marital status (field review here was only to check for consistency with P6)...	All	All	100	.010	.003	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	⁶ .006
P2-P7, (field review was to check for blanks or double entries).....	All	All	100	.006	.003	.006	.007	.003	.006	(NA)	(NA)	⁷ .007
100-percent housing items.....	(X)	(X)	100	.009	.004	.009	.014	.007	.009	(NA)	(NA)	(NA)
1, Block number.....	Each Foddie page.	Block	100	.003	.004	.034	.025	(NA)	.035	(NA)	(NA)	(NA)
H1, Sample key (review was to see that sample order was correct).....	All	All	100	.017	.005	(NA)	(NA)	.009	(NA)	(NA)	(NA)	(NA)
H2, Address.....	All	All	100	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
H3, Type of housing unit.....	All	All	100	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
H4, Access to housing unit.....	All	All	100	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
H5, Kitchen or cooking equipment.....	All	All	100	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
H6, Condition of housing unit.....	All	All	100	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	.010
H7, Occupancy.....	All	All	100	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
H8, Number of rooms.....	All	All	100	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	.013
H9, Presence of running water and whether hot and cold.....	All	All	100	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	.015
H10, Presence of flush toilet.....	All	All	100	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	.012
H11, Presence of bath.....	All	All	100	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	.014
H2-H11.....	All	All	100	.005	.003	.008	.012	.006	.009	(NA)	(NA)	(NA)
H12, Tenure (owned or rented).....	Occupied	All	100	.010	.006	.007	.007	.009	.008	(NA)	(NA)	.015
H13, Type of vacancy.....	Vacant	All	100	.079	.068	.047	.057	.076	.065	(NA)	(NA)	.034
H14, Description of property (see H39) ⁸ ...	"Owned or being bought" or "Vacant for sale only."	Block	100	.078	.022	.045	.044	.027	.038	(NA)	(NA)	(NA)
H15, Value of property (see also H40) ⁹	"Owned or being bought" or "Vacant for sale only" if also "1 unit, no business."	Block	100	.049	.019	.035	.017	.028	.027	(NA)	(NA)	(NA)
H16, Contract rent (see also H41) ¹⁰	{"Rented" "Vacant for rent."}	Block	100	.019	.008	.025	.032	.013	.038	(NA)	(NA)	(NA)
		Block	100	.136	.065	(NA)		.193	(NA)	(NA)	(NA)	(NA)

See footnotes at end of table.

QUALITY CONTROL OF THE FIELD ENUMERATION

Table 2.--Population and Housing Items: Sample Rates and Error Rates--Continued

(Error rates shown are lack of response or inconsistencies in responses)

Question	Type of person or housing unit for which response required	Type of area	Sample rate (percent)	Error rates								
				Two-stage areas ¹				Single-stage areas ¹			Combined two-stage and single-stage areas ²	
				First review	Final review	Office review	National sample	Final review	Office review	National sample	National sample	Computer count
Sample Items.....	(X)	(X)	(X)	.012	.007	.007	.032	(NA)	.013	.034	.047	(NA)
Sample population items.....	(X)	All	25	.011	.006	(NA)	.032	.007	(NA)	.032	.047	.039
P3a, Specific relationship to head of household.....	"Other relative" and "Nonrelative" in P3.	All	25	.036	.018	(NA)	.048	.068	(NA)	(B)	.062	(NA)
P8, State or country of birth.....	All	All	25	.002	.001	(NA)	.010	.002	(NA)	.004	.018	.025
P9, Mother tongue.....	Foreign-born.	All	25	.029	.011	(NA)	(B)	.021	(NA)	.068	(B)	.073
P10-11, Country of birth of father and mother.....	All	All	25	(NA)	(NA)	(NA)	.009	(NA)	(NA)	.004	.017	.022
P12, Year moved into residence.....	All	All	25	(NA)	(NA)	(NA)	.017	(NA)	(NA)	.005	.024	.038
P10-P12 ¹¹	All	All	25	.005	.004	(NA)	.012	.003	(NA)	.004	.019	.030
P13a-P13c, Place of residence on April 1, 1955.....	5 years old or over.	All	25	(NA)	(NA)	(NA)	.053	(NA)	(NA)	.050	.074	.016
P13a, City or town.....	5 years old or over, not in same house.	All	25	.010	.004	(NA)	.049	.008	(NA)	.040	.064	(NA)
P13b, Whether inside city limits.....	5 years old or over, not in same house, and in city or town in 1955.	All	25	.030	.011	(NA)	.067	.014	(NA)	.064	.097	(NA)
P13c, County and State or foreign country.	5 years old or over, not in same house.	All	25	.009	.006	(NA)	.050	.015	(NA)	.051	.071	(NA)
P8, P10-P13a ¹²	(X)	All	25	.005	.003	.003	.016	.004	.005	.008	.024	(NA)
P14, Highest grade of school attended.....	5 years old or over.	All	25	.003	.002	(NA)	.012	.002	(NA)	.004	.022	(NA)
P15, Whether highest grade was completed..	5 years old or over who ever attended school.	All	25	.007	.005	(NA)	.022	.002	(NA)	.023	.034	(NA)
P16, School attendance after Feb. 1, 1960.	5-34 years old.	All	25	.012	.010	(NA)	.045	.014	(NA)	.081	.062	.083
P17, Public or private school attendance..	5-34 years old who attended school after Feb. 1, 1960.	All	25	.018	.007	(NA)	.077	.007	(NA)	(B)	.111	.057
P18, Whether married more than once.....	Those who had ever married.	All	25	(NA)	(NA)	(NA)	.037	(NA)	(NA)	.022	.046	(NA)
P19, Date of first marriage.....	Those who had ever married.	All	25	(NA)	(NA)	(NA)	.034	(NA)	(NA)	.056	.053	(NA)
P18-19 ¹¹	Those who had ever married.	All	25	.012	.011	(NA)	.036	.011	(NA)	.039	.049	(NA)
P20, Number of babies ever born.....	Women who had ever married.	All	25	.010	.010	(NA)	.042	.008	(NA)	.046	.053	.060
P21, Whether born before April 1946 (age-screening question for P22-P35).....	All	All	25	.011	.005	(NA)	.028	.005	(NA)	.028	.038	(NA)
P14, P21.....	(X)	All	25	.007	.004	.005	.020	.004	.011	.016	.030	(NA)
P22, Whether worked preceding week.....	14 years old or over.	All	25	.006	.005	(NA)	.028	.004	(NA)	.025	.039	(NA)
P23, Hours worked preceding week.....	Those 14 years old or over who had worked the preceding week.	All	25	.007	.005	(NA)	.032	.005	(NA)	.017	.051	.037
P24, Whether looking for work or on layoff from a job.....	Those 14 years old or over who had not worked the preceding week.	All	25	.006	.003	(NA)	.035	.004	(NA)	.040	.060	(NA)

See footnotes at end of table.

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				Two-stage areas ¹				Single-stage areas ¹			Combined two-stage and single-stage areas ²	
				First review	Final review	Office review	National sample	Final review	Office review	National sample	National sample	Computer count
<u>Sample population items--Continued.</u>												
P25, Whether had a job even though not at work.	Those 14 years old or over who had not worked the preceding week and were not looking for work or were on layoff.	All	25	.010	.004	(NA)	.043	.008	(NA)	.031	.066	(NA)
P26, Year last worked.....	Those 14 years old or over who had not worked the preceding week.	All	25	.010	.005	(NA)	.034	.003	(NA)	.022	.054	(NA)
P22-26, Labor force status.....	(X)	All	25	.007	.005	(NA)	.033	.005	(NA)	.026	.051	.031
P27a-c, Industry.....	Civilians 14 years old or over who had worked since 1950.	All	25	(NA)	(NA)	(NA)	.029	(NA)	(NA)	.021	.044	.043
P27d, Occupation.....	Same as P27a-c.	All	25	(NA)	(NA)	(NA)	.029	(NA)	(NA)	.013	.043	.057
P27e, Class of worker.....	Same as P27a-c.	All	25	(NA)	(NA)	(NA)	.013	(NA)	(NA)	.026	.017	.018
P27a-P27e ¹¹	Same as P27a-c.	All	25	.036	.021	(NA)	.025	.015	(NA)	.020	.037	.039
P28a, City or town.....	Those 14 years old or over who had worked the preceding week.	All	25	.012	.007	(NA)	.033	.007	(NA)	.055	.063	(NA)
P28b, Whether inside city limits.....	Same as P28a, different city.	All	25	.048	.014	(NA)	.089	.019	(NA)	.103	.126	(NA)
P28c, County and State.....	Same as P28a.	All	25	.010	.004	(NA)	.067	.006	(NA)	.027	.080	(NA)
P28a-P28c, Place of work.....	Same as P28a.	All	25	.021	.021	(NA)	.060	.010	(NA)	.057	.086	(NA)
P29, Means of transportation to work.....	Same as P28a.	All	25	.005	.003	(NA)	.032	.002	(NA)	.034	.057	(NA)
P30, Whether worked in 1959.....	14 years old or over.	All	25	¹⁴ .012	¹⁴ .008	(NA)	.042	¹⁴ .009	(NA)	.049	.061	.044
P23 and P27-P30.....	(X)	All	25	.018	.009	.006	¹³ .036	.009	.009	.033	.054	(NA)
P31, Number of weeks worked in 1959.....	Those 14 years old or over who worked in 1959.	All	25	(NA)	(NA)	(NA)	.042	(NA)	(NA)	.049	.065	.016
P32, Income from wages or salary.....	Same as P31.	All	25	(NA)	(NA)	(NA)	.042	(NA)	(NA)	.052	.065	¹⁵ .052
P33, Income from self-employment.....	Same as P31.	All	25	(NA)	(NA)	(NA)	.055	(NA)	(NA)	.072	.080	¹⁶ .042
P31-33 ¹¹	Same as P31.	All	25	.014	.014	(NA)	.047	.011	(NA)	.057	.064	.037
P34, Income from other sources.....	14 years old or over.	All	25	.007	.006	(NA)	.032	.007	(NA)	.032	.044	¹⁷ .049
P32-34.....	(X)	All	25	(NA)	(NA)	(NA)	.041	(NA)	(NA)	.036	.060	.048
P31-34.....	(X)	All	25	.010	.009	.008	¹³ .042	.009	.016	.048	.057	.042
P35, Military service.....	Males 14 years old or over.	All	25	.031	.014	(NA)	.076	.015	(NA)	.090	.093	.094
<u>Sample housing items.....</u>												
H17, Acreage.....	(X)	(X)	(X)	.014	.008	(NA)	.035	.019	(NA)	.045	.045	(NA)
H18a, Whether \$250 (or more) sales of farm products.	All	Rural	25	.020	.011	(NA)	.000	.027	(NA)	(B)	.000	(NA)
H18b, Whether \$50 (or more) sales of farm products.	Occupied, not on a city lot, but less than 10 acres.	Rural	25	.027	.007	(NA)	.009	.023	(NA)	(B)	.008	(NA)
H17-H18b.....	Occupied, on 10 or more acres.	Rural	25	(B)	.017	(NA)	(B)	(B)	(NA)	(B)	(B)	(NA)
H17-H18b.....	(X)	Rural	25	.023	.010	(NA)	.003	.028	(NA)	(B)	.004	.044

See footnotes at end of table.

QUALITY CONTROL OF THE FIELD ENUMERATION

Table 2.--Population and Housing Items: Sample Rates and Error Rates--Continued

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Question	Type of person or housing unit for which response required	Type of area	Sample rate (percent)	Error rates								
				Two-stage areas ¹				Single-stage areas ¹			Combined two-stage and single-stage areas ²	
				First review	Final review	Office review	National sample	Final review	Office review	National sample	National sample	Computer count
Sample housing items--Continued												
H19, Number of bedrooms ^{1d}	All	All	5	(NA)	(NA)	(NA)	.034	(NA)	(NA)	.020	.030	.063
H20, Year structure was built ^{1b}	All	All	25	(NA)	(NA)	(NA)	.024	(NA)	(NA)	.012	.029	.040
H21, Heating equipment ^{1b}	All	All	25	(NA)	(NA)	(NA)	.031	(NA)	(NA)	.016	.036	.036
H19-H21 ^{11 1b}	All	All	(X)	.011	.007	(NA)	.028	.016	(NA)	.014	.033	.046
H22, Fuels used most for heating, cooking, and hot water ^{1b}	Occupied	All	5	(NA)	(NA)	(NA)	.020	(NA)	(NA)	.029	.022	.060
a. Heating fuel ^{1b}	Occupied	All	5	(NA)	(NA)	(NA)	.009	(NA)	(NA)	(B)	.013	.039
b. Cooking fuel ^{1b}	Occupied	All	5	(NA)	(NA)	(NA)	.014	(NA)	(NA)	(B)	.017	.031
c. Hot water fuel ^{1b}	Occupied	All	5	(NA)	(NA)	(NA)	.037	(NA)	(NA)	(B)	.037	.107
H23, Clothes washing machine ^{1b}	Occupied	All	5	(NA)	(NA)	(NA)	.019	(NA)	(NA)	(B)	.020	.029
H24, Clothes dryer ^{1b}	Occupied	All	5	(NA)	(NA)	(NA)	.009	(NA)	(NA)	(B)	.013	.039
H25, Television set ^{1b}	Occupied	All	5	(NA)	(NA)	(NA)	.028	(NA)	(NA)	(B)	.030	.033
H26, Radio ^{1b}	Occupied	All	5	(NA)	(NA)	(NA)	.014	(NA)	(NA)	(B)	.017	.028
H27, Air conditioning ^{1b}	Occupied	All	5	(NA)	(NA)	(NA)	.009	(NA)	(NA)	(B)	.033	.028
H28, Home food freezer ^{1b}	Occupied	All	5	(NA)	(NA)	(NA)	.009	(NA)	(NA)	(B)	.030	.035
H22-H28 ^{11 1b}	Occupied	All	5	.041	.026	(NA)	.016	.062	(NA)	.049	.024	.041
H29, Number of units in structure ^{1b}	All	All	20	(NA)	(NA)	(NA)	.023	(NA)	(NA)	.025	.034	.032
H30, Number of bathrooms ^{1b}	All	All	20	(NA)	(NA)	(NA)	.020	(NA)	(NA)	.025	.033	.084
H31, Source of water ^{1b}	All	Non-block.	20	(NA)	(NA)	(NA)	.014	(NA)	(NA)	.025	.026	.029
H32, Sewage disposal ^{1b}	All	Non-block.	20	(NA)	(NA)	(NA)	.016	(NA)	(NA)	.056	.037	.034
H33, Basement ^{1b}	All	All	20	(NA)	(NA)	(NA)	.019	(NA)	(NA)	.025	.032	.036
H34, Elevator in structure ^{1b}	All	Block	20	(NA)	(NA)	(NA)	.029	(NA)	(NA)	(B)	.042	(NA)
H29-H34 ^{1b}	(X)	(X)	20	.012	.007	(NA)	.020	.011	(NA)	.029	.033	.045
H19-H34 ^{1b}	(X)	(X)	(X)	.014	.009	.010	.022	.019	.018	.028	.027	(NA)
H35, Telephone available.....	Occupied	All	25	.001	.002	(NA)	.019	.002	(NA)	.009	.023	.028
H35 (a) Telephone number.....	Occupied, if "yes" to H35.	All	25	.003	.004	(NA)	.012	.004	(NA)	(B)	.010	(NA)
H36, Number of automobiles.....	Occupied	Block Non-block	20 5	.005	.010	(NA)	.044	.002	(NA)	(B)	.059	.068
H37, Mobility of trailers.....	Trailers	All	25	(B)	(B)	(NA)	(B)	(B)	(NA)	(B)	(B)	.122
H38, Duration of vacancy.....	Vacant	All	25	.034	.022	(NA)	(B)	(B)	(NA)	(B)	(B)	.254
H39, Description of property (see also H14).	"Owned or being bought" or "Vacant, for sale only" and on less than 10 acres.	Non-block.	25	.031	.016	(NA)	.067	.014	(NA)	(B)	.057	(NA)
H40, Value of property (see also H15) ⁹	"Owned or being bought" or "Vacant, for sale only" and on less than 10 acres and "1-unit, no business."	Non-block.	25	.014	.013	¹⁹ .198	.052	.015	¹⁹ .115	(B)	.049	²⁰ .030
H41, Contract rent (see also H16) ¹⁰	"Rented" or "Vacant for rent."	Non-block.	25	.019	.007	.025	¹³ .079	.044	¹⁹ .118	(B)	.107	²¹ .071
H42, Inclusion of farm land in rent.....	"Rented" or "Vacant for rent."	Rural	25	.063	.024	(NA)	(B)	.039	(NA)	(B)	(B)	(NA)
H43, Whether tenants pay for electricity, gas, or water in addition to rent ^{10 11}	"Rented" or "Vacant for rent."	All	25	.025	.012	(NA)	.067	.043	(NA)	.153	.098	(NA)
H44, (a) Cost of electricity.....	"Rented," and cost paid by tenant in addition to rent.	All	25	.014	.004	(NA)	.026	.025	(NA)	(B)	.040	(NA)

See footnotes at end of table.

INTRODUCTION

Table 2.--Population and Housing Items: Sample Rates and Error Rates--Continued

(Error rates shown are lack of response or inconsistencies in responses)

Question	Type of person or housing unit for which response required	Type of area	Sample rate (percent)	Error rates								
				Two-stage areas ¹				Single-stage areas ¹			Combined two-stage and single-stage areas ²	
				First review	Final review	Office review	National sample	Final review	Office review	National sample	National sample	Computer count
<u>Sample housing items--Continued</u>												
H44 (b) Cost of gas.....	Same as H44 (a)	All	25	.014	.003	(NA)	.035	.008	(NA)	(B)	.030	(NA)
H44 (c) Cost of water.....	Same as H44 (a)	All	25	.026	.011	(NA)	.066	.039	(NA)	(B)	.078	(NA)
H45, Inclusion of fuel in rent ¹⁰	"Rented" or "Vacant for rent"	All	25	.013	.009	(NA)	.075	.021	(NA)	(B)	.100	(NA)
H43, H45 ¹⁰	(X)	All	25	.019	.010	.023	¹³ .069	.032	.064	.149	.098	(NA)
H46, Cost of fuel.....	"Rented" and cost paid by tenant in addition to rent	All	25	.011	.005	(NA)	(B)	.019	(NA)	(B)	(B)	(NA)

(X) Not applicable. (NA) Not available. (B) Base too small to offer reasonable statistical reliability.

¹Excludes closeout cases.

²Includes closeout cases.

³The computer counts were taken from the 100-percent schedules; the same items on the sample schedules were allocated at different rates.

⁴Excludes computer allocation of "female" to wives.

⁵Excludes allocation of same race as head of household to relatives of the head.

⁶Excludes computer allocation of "married" to wives and to heads of households with wives present.

⁷Excludes P2.

⁸Nonresponse counted as error in field review for "owned or being bought" or "vacant, for sale only"; in office review, only for "owned or being bought."

⁹Nonresponse counted as an error in field review for "1 unit-no business" units which were "owned" or "vacant for sale only"; in office review, only for "1 unit-no business" units which were "owned."

¹⁰Nonresponse counted as error in field review for all units which were "rented" or "vacant, for rent"; in office review, only for units which were "rented."

¹¹Field review rates may be overestimates of the number of errors found. For any given person or housing unit in the enumeration book, the base of the estimate is 1 regardless of the number of items checked.

¹²For item P13a, nonresponse counted as error in field review for all persons who moved after April 1955 according to responses in P12; in office review, only for movers who, according to responses in P6, were born before April 1955.

¹³Duplicating the office edit would give a smaller result.

¹⁴In field review, nonresponses were counted as errors only for present civilians who worked in 1950 or after.

¹⁵Excludes computer allocations of "none" for people working in 1959 when there was a dollar entry in P33.

¹⁶Excludes computer allocations of "none" for people working in 1959 when there was a dollar entry in P32.

¹⁷Excludes computer allocations of "none" in P34 when there was a dollar entry in P32 or P33.

¹⁸For items H19-H34, nonresponse counted as an error in field review for all units; in office review, for occupied units only.

¹⁹Believed to be high because of some confusion in the review instructions.

²⁰Includes H15.

²¹Includes H16.