

**1970  
CENSUS OF  
HOUSING**

Metropolitan  
Housing  
Characteristics

**DES MOINES, IOWA  
STANDARD METROPOLITAN  
STATISTICAL AREA**

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This guide lists all subjects covered in this report. An asterisk (\*) indicates that data are shown for housing units with Negro head of household, and the dagger symbol (†) means that the data are shown for housing units with household head of Spanish heritage; these data are shown when an area has 25,000 or more Negro or Spanish heritage population, respectively.

Subject	Value	Gross rent	Income in 1969	Plumbing facilities by persons per room	Number of rooms	Units in structure	Household composition by age of head	Size of household (persons)	Duration of vacancy	Sales price asked and rent asked
<b>OCCUPANCY AND VACANCY CHARACTERISTICS</b>										
Year moved into unit	1, 11*, 19†	2, 12*, 20†	3, 13*, 21†	—	—	6, 16*, 24†	—	—	—	—
Duration of vacancy	—	—	—	9 <sup>1</sup>	9	9	—	—	—	9
<b>UTILIZATION CHARACTERISTICS</b>										
Number of rooms	1, 11*, 19†	2, 12*, 20†	3, 13*, 21†	5, 15*, 23†	—	6, 16*, 24†	—	5, 15*, 23†	9	—
Size of household (persons)	1, 11*, 19†	2, 12*, 20†	3, 13*, 21†	4, 14*, 22†	5, 15*, 23†	8, 18*, 26†	8, 18*, 26†	—	—	—
Number of bedrooms	1, 11*	2, 12*	3, 13*	—	5, 15*	6, 16*	—	8, 18*	9	10
Persons per room	1, 11*, 19†	2, 12*, 20†	4, 14*, 22†	—	5, 15*, 23†	6, 16*, 24†	7, 17*, 25†	4, 14*, 22†	—	—
<b>PLUMBING CHARACTERISTICS</b>										
Plumbing facilities	—	—	—	—	—	—	—	—	9	10
Plumbing facilities by persons per room	1, 11*, 19†	2, 12*, 20†	4, 14*, 22†	—	5, 15*, 23†	6, 16*, 24†	7, 17*, 25†	4, 14*, 22†	—	—
Complete bathrooms	1, 11*, 19†	2, 12*, 20†	—	—	5, 15*, 23†	—	—	8, 18*, 26†	—	—
<b>STRUCTURAL CHARACTERISTICS</b>										
Units in structure	—	6, 16*, 24†	6, 16*, 24†	6, 16*, 24†	6, 16*, 24†	—	7, 17*, 25†	8, 18*, 26†	9	10
Year structure built	1, 11*, 19†	2, 12*, 20†	3, 13*, 21†	4, 14*, 22†	5, 15*, 23†	6, 16*, 24†	—	8, 18*, 26†	9	10
Elevator in structure	—	2, 12*	—	—	—	—	—	—	—	—
<b>EQUIPMENT AND APPLIANCES</b>										
Heating equipment	1, 11*, 19†	—	—	4, 14*, 22†	—	6, 16*, 24†	—	—	9	—
Air conditioning	1, 11*, 19†	2, 12*, 20†	3, 13*, 21†	—	—	6, 16*, 24†	—	—	—	—
Automobiles available	—	—	3, 13*, 21†	—	—	6, 16*, 24†	—	—	—	—
Second home	—	—	3, 13*	—	—	—	—	—	—	—
Automatic clothes washing machine	—	—	3, 13*	—	—	—	—	—	—	—
Clothes dryer	—	—	3, 13*	—	—	—	—	—	—	—
Dishwasher	—	—	3, 13*	—	—	—	—	—	—	—
Home food freezer	—	—	3, 13*	—	—	—	—	—	—	—
<b>FINANCIAL CHARACTERISTICS</b>										
Value	—	—	1, 11*, 19†	1, 11*, 19†	1, 11*, 19†	—	1, 11*, 19†	1, 11*, 19†	—	—
Value-income ratio	—	—	—	4, 14*, 22†	5, 15*, 23†	—	7, 17*, 25†	8, 18*, 26†	—	—
Gross rent	—	—	2, 12*, 20†	2, 12*, 20†	2, 12*, 20†	6, 16*, 24†	7, 17*, 25†	2, 12*, 20†	—	—
Gross rent as percentage of income	—	2, 12*, 20†	3, 13*, 21†	4, 14*, 22†	5, 15*, 23†	—	—	8, 18*, 26†	—	—
Gross rent as percentage of income by income	—	—	—	—	—	—	7, 17*, 25†	—	—	—
Sales price asked	—	—	—	10 <sup>1</sup>	—	—	—	—	9	—
Rent asked	—	—	—	10 <sup>1</sup>	—	10	—	—	9	—
Inclusion of utilities in rent	—	—	—	—	—	—	—	—	—	10
<b>HOUSEHOLD CHARACTERISTICS</b>										
Household composition by age of head	1, 11*, 19†	7, 17*, 25†	7, 17*, 25†	7, 17*, 25†	—	7, 17*, 25†	—	8, 18*, 26†	—	—
Income in 1969	1, 11*, 19†	2, 12*, 20†	—	4, 14*, 22†	3, 13*, 21†	6, 16*, 24†	7, 17*, 25†	3, 13*, 21†	—	—

<sup>1</sup>Vacant units tabulated by plumbing facilities only.

# INTRODUCTION

# APPENDIXES

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## GENERAL

This report presents cross-tabulations of housing and household characteristics from the 1970 Census of Population and Housing for the standard metropolitan statistical area, its central city or cities, and its places of 50,000 inhabitants or more. Legal provision for this census, which was conducted as of April 1, 1970, was made in the Act of Congress of August 31, 1954 (amended August 1957), which codified Title 13, United States Code.

This report series contains 248 reports as listed on page II. There is one report for each standard metropolitan statistical area (recognized as of February 1971) in the United States and Puerto Rico, as well as a summary report for the United States.

This series of reports is one of the several series which present the information compiled from the census. For a description of the full data dissemination program of the 1970 Population and Housing Census, see Appendix D, "Publication and Computer Summary Tape Program."

The content and procedures of the 1970 census were determined after evaluation of the results of the 1960 census, consultation with a wide variety of users of census data, and extensive field pretesting. A number of

changes were introduced in 1970 to improve the usefulness of the census results. For most of the characteristics shown in this report, the changes do not, however, affect to any appreciable extent the comparability of the 1970 data with those for 1960; further information on comparability appears in Appendix B, "Definitions and Explanations of Subject Characteristics."

More detailed information on the technical and procedural matters covered in the text of this report can be obtained by writing to the Director, Bureau of the Census, Washington, D.C. 20233. Such information will also appear in later reports of the 1970 census.

**Organization of the text.**—The text consists of this introduction and four appendixes which appear after the tables. Appendix A describes the various area classifications (e.g., places, standard metropolitan statistical areas, etc.) and briefly explains the residence rules used in counting the population. Appendix B provides definitions and explanations for the subjects covered in this report, including facsimiles of the 1970 census questionnaire pages and a facsimile of the instruction sheet. Appendix C presents information on sources of error in the data, editing procedures, the sample design, ratio estimation, and sampling variability. Appendix D summarizes the data dissemination program of the 1970 census.

**Content of the tables.**—A series of standard tables is presented for each area shown in this report. Tables 1 to 8 present statistics for owner-occupied and renter-occupied units. Tables 9 and 10 present statistics for vacant units, separately for units for

sale and for units for rent. Data for housing units with Negro head of household are presented in tables 11 to 18, and data for housing units with heads of Spanish heritage (i.e., heads of Spanish language or surname or of Puerto Rican birth or parentage) are presented in tables 19 to 26; these tables, which have the same subject content as tables 1 to 8, are published for those standard metropolitan statistical areas, cities or places that have a population of 25,000 or more for the particular group. The finding guide on page IV lists the characteristics covered in this report and shows the tables in which the various types of statistics appear.

The prefix letter "A" has been assigned to the tables for the total standard metropolitan statistical area; tables for the central cities and places of 50,000 inhabitants or more, which follow in alphabetical order, have the prefix letter "B," "C," etc.

**Sample size.**—The statistics presented in this report are based on a sample of housing units. More specifically, the data are derived from the 15-percent and 5-percent sample questionnaires (see "Data Collection Procedures," below). Some items appeared on both sample questionnaires and, therefore, are based on a 20-percent sample of housing units. The sampling rate for each subject is shown in table A of Appendix C, "Accuracy of the Data." Appendix C also presents information on the sampling variability associated with these data.

Statistics for some subgroups (e.g., households in owner-occupied units with incomes of less than \$2,000 or renter-occupied 1-room units) may differ from table to table or within the same table when the figures are tabulated from different samples.

**Derived figures (medians, etc.).—**

Shown in this report are medians as well as certain percentages and ratios. The median, which is a type of average, is the middle value in a distribution; i.e., the median divides the distribution into two equal parts—one-half of the cases fall below the median and one-half of the cases exceed the median. For all types of derived figures in this report, the figure is not presented (but indicated by three dots "...") if there are fewer than the prescribed number of units in the distribution or the base. For the 20-percent sample, the minimum number of housing units is 100; for the 15-percent sample, the minimum is 132; and for the 5-percent sample, the minimum is 400.

Medians for rooms and persons are rounded to the nearest tenth, for value to the nearest hundred dollars, and for rent to the nearest dollar. In computing medians for rooms and persons per housing unit, the whole number is used as the midpoint of the interval so that, for example, the category "3 rooms" is treated as an interval ranging from 2.5 up to 3.5 rooms. In computing median rent, units reported as "no cash rent" are excluded. The median is computed on the basis of the distribution as tabulated, which is sometimes more detailed than the distribution shown in this report. When the median falls in the lower terminal category of an open-end distribution, the method of presentation is to show the initial value of the next category followed by a minus sign; thus, for example, if the median falls in the category "Less than \$5,000," it is shown as "\$5,000—." When the median falls in the upper terminal category of an open-end distribution, the method of presentation is to show the initial value of the

terminal category followed by a plus sign; thus, for example, if the median falls in the category "\$50,000 or more," it is shown as "\$50,000+."

**Symbols.**—A dash "—" signifies zero. Three dots "..." mean not applicable, or that the base for a derived figure is too small for it to be shown, or that the data are being withheld to avoid disclosure of information for individual housing units. The symbol "U" means that the place is unincorporated.

**Boundaries.**—The data shown for 1970 relate to the boundaries as they existed on January 1, 1970. Information on boundary changes between 1960 and 1970 for certain types of areas is given in the 1970 Population Census PC(1)-A reports.

**DATA COLLECTION PROCEDURES**

The 1970 census was conducted primarily through self-enumeration. In 1960, self-enumeration was first introduced on a nationwide scale as a substitute for the traditional census direct interview.

A census questionnaire was delivered by postal carriers to every household several days before Census Day, April 1, 1970. This questionnaire contained certain explanatory information and was accompanied by an instruction sheet; in areas with comparatively large proportions of Spanish-speaking persons, a Spanish version of the instruction sheet was also enclosed. Some of this material is reproduced in Appendix B, "Definitions and Explanations of Subject Characteristics."

In the larger metropolitan areas and some adjacent counties, altogether containing about three-fifths of the

population of the United States, the householder was requested to fill out and mail back the form on Census Day. Approximately 87 percent of the householders did so. The mailed-back forms were reviewed by the census enumerator (or, in some localities, a census clerk) and if the form was determined to be incomplete or inconsistent, a followup was made. The bulk of these followups were made by telephone, the rest by personal visit. For the households that did not mail back their forms, a followup was also made, in almost all cases by personal visit and in the remainder by telephone; vacant units were enumerated by personal visit.

For the remaining two-fifths of the population, the householder was requested to fill out the form and give it to the enumerator when he called; approximately 80 percent did so. Incomplete and unfilled forms were completed by interview during the enumerator's visit.

Three types of questionnaires were used throughout the country: 80 percent of the households answered a form containing a limited number of population and housing questions and the remainder, split into 15-percent and 5-percent samples, answered forms which contained these questions as well as a number of additional questions. Some of the additional questions were the same on the 15-percent and 5-percent versions; others were different. A random procedure was used to determine which of the three forms any particular household answered.

In the metropolitan and adjacent areas, the designated type was sent to each household. In the remaining areas, the questionnaire with a limited number of questions was distributed to all households and the enumerators

interviewed for the additional questions in those households designated for the 15-percent and 5-percent samples.

The subjects covered in this report are all drawn from the 15-percent and 5-percent sample questionnaires.

#### **PROCESSING PROCEDURES**

The 1970 census questionnaires were specially designed to be processed by FOSDIC (Film Optical

Sensing Device for Input to Computers). Respondents and enumerators (and for some few items, census clerks) marked the answers in predesignated positions which could be "read" by FOSDIC, from a microfilm copy of the questionnaire, onto computer magnetic tape.

The tape containing the information from the questionnaires was processed on the Census Bureau's computers through a number of editing

and tabulation steps (see Appendix C, "Accuracy of the Data"). One of the end results of this operation was a computer tape from which the tables in this report were prepared on a cathode-ray-tube phototypesetting machine at the Government Printing Office. Another end result was the summary tape which is available for purchase, as described in Appendix D, "Publication and Computer Summary Tape Program."

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**METROPOLITAN HOUSING CHARACTERISTICS**

**Des Moines, Iowa**  
**STANDARD METROPOLITAN STATISTICAL AREA**

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**MAP**

Counties, Standard Metropolitan  
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19	Value of Owner Occupied Housing Units With Household Head of Spanish Language: 1970
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21	Income in 1969 of Families and Primary Individuals in Owner and Renter Occupied Housing Units With Household Head of Spanish Language: 1970
22	Plumbing Facilities by Persons per Room for Owner and Renter Occupied Housing Units With Household Head of Spanish Language: 1970
23	Rooms in Owner and Renter Occupied Housing Units With Household Head of Spanish Language: 1970
24	Units in Structure for Owner and Renter Occupied Housing Units With Household Head of Spanish Language: 1970
25	Household Composition for Owner and Renter Occupied Housing Units With Household Head of Spanish Language: 1970
26	Persons in Owner and Renter Occupied Housing Units With Household Head of Spanish Language: 1970



**NOTE**

The data shown in the tables do not reflect corrections in the housing unit counts for certain areas in this SMSA; see "Correction Note" (page 6) in the 1970 Housing Census HC(1)-A reports.

**Table A-1. Value of Owner Occupied Housing Units: 1970**

[Data based on sample, see text. For minimum base for derived figures (percent, median, etc.) and meaning of symbols, see text]

The SMSA	Total	Less than										Median (dollars)
		\$5,000	\$5,000 to \$7,499	\$7,500 to \$9,999	\$10,000 to \$12,499	\$12,500 to \$14,999	\$15,000 to \$19,999	\$20,000 to \$24,999	\$25,000 to \$34,999	\$35,000 to \$49,999	\$50,000 or more	
<b>Specified owner occupied<sup>1</sup></b>	<b>58 664</b>	<b>1 169</b>	<b>3 412</b>	<b>6 361</b>	<b>7 786</b>	<b>7 275</b>	<b>14 414</b>	<b>8 813</b>	<b>6 336</b>	<b>2 386</b>	<b>712</b>	<b>16 100</b>
<b>ROOMS</b>												
1 and 2 rooms	227	58	33	22	33	27	25	20	9	-	-	10 000
3 rooms	1 099	217	342	316	127	25	52	15	5	-	-	7 400
4 rooms	9 477	374	1 168	1 875	2 441	1 937	1 367	230	80	5	-	11 400
5 rooms	21 376	304	1 167	2 590	2 748	2 919	7 184	3 369	956	114	25	15 700
6 rooms	13 515	157	481	1 056	1 510	1 543	3 646	2 898	1 778	396	50	17 900
7 rooms	6 899	34	137	342	613	540	1 434	1 395	1 743	527	134	21 300
8 rooms or more	6 071	25	84	160	314	284	706	886	1 765	1 344	503	28 300
Median	5.4	4.3	4.6	4.9	5.0	5.1	5.3	5.8	6.7	7.5+	7.5+	...
<b>PERSONS</b>												
1 person	6 587	322	813	1 346	1 382	883	1 150	386	182	91	32	11 500
2 persons	17 465	456	1 260	2 221	2 578	2 346	3 578	2 280	1 588	575	194	14 900
3 persons	10 325	117	425	1 003	1 369	1 366	2 752	1 663	1 134	368	128	16 600
4 persons	10 518	62	361	767	1 030	1 234	2 879	2 067	1 456	560	102	18 300
5 persons	7 318	87	208	468	658	769	2 052	1 364	1 163	415	134	18 600
6 persons or more	6 451	125	345	556	769	677	1 614	1 053	813	377	122	17 400
Median	3.0	2.1	2.2	2.3	2.5	2.8	3.3	3.5	3.7	3.8	3.5	...
Units with roomers, boarders, or lodgers	1 100	28	81	122	203	155	237	169	64	36	5	14 400
<b>PLUMBING FACILITIES BY PERSONS PER ROOM</b>												
<b>With all plumbing facilities</b>	<b>57 868</b>	<b>805</b>	<b>3 163</b>	<b>6 253</b>	<b>7 750</b>	<b>7 275</b>	<b>14 405</b>	<b>8 793</b>	<b>6 336</b>	<b>2 376</b>	<b>712</b>	<b>16 300</b>
0.50 or less	29 248	411	1 838	3 671	4 278	3 627	6 306	3 844	3 305	1 451	517	15 600
0.51 to 1.00	25 163	273	1 044	2 076	2 912	3 189	7 139	4 513	2 920	902	195	17 200
1.01 to 1.50	2 983	100	239	433	481	394	830	386	97	23	-	14 000
1.51 or more	474	21	42	73	79	65	130	50	14	-	-	13 300
<b>Lacking some or all plumbing facilities</b>	<b>796</b>	<b>364</b>	<b>249</b>	<b>108</b>	<b>36</b>	<b>-</b>	<b>9</b>	<b>20</b>	<b>-</b>	<b>10</b>	<b>-</b>	<b>5 300</b>
0.50 or less	510	235	166	67	17	-	4	11	-	10	-	5 300
0.51 to 1.00	207	83	58	37	15	-	5	9	-	-	-	5 900
1.01 to 1.50	73	40	25	4	4	-	-	-	-	-	-	...
1.51 or more	6	6	-	-	-	-	-	-	-	-	-	...
<b>BEDROOMS</b>												
None and 1	2 778	497	659	800	360	155	225	66	16	-	-	8 200
2	20 045	672	1 879	3 562	4 510	3 667	3 998	1 035	474	207	41	12 200
3	26 713	203	694	1 721	2 120	2 938	8 406	6 364	3 325	750	192	18 500
4 or more	9 231	120	100	317	690	578	1 620	1 632	2 523	1 176	475	23 600
<b>YEAR STRUCTURE BUILT</b>												
1969 to March 1970	1 131	-	6	10	21	9	195	293	312	233	52	26 000
1965 to 1968	4 714	4	24	26	33	81	756	1 231	1 605	767	187	26 300
1960 to 1964	6 560	25	20	70	162	353	2 164	2 012	1 269	380	105	21 200
1950 to 1959	15 332	113	323	720	1 323	2 043	5 260	3 110	1 773	496	171	18 100
1940 to 1949	7 740	117	390	769	1 367	1 499	2 238	768	418	135	39	14 500
1939 or earlier	23 187	910	2 649	4 766	4 880	3 290	3 801	1 399	959	375	158	11 700
<b>COMPLETE BATHROOMS</b>												
1 and 1 1/2	49 238	657	3 100	6 058	7 454	6 953	13 181	7 349	3 956	451	79	15 100
2 and 2 1/2	7 072	7	51	99	211	211	1 154	1 275	2 144	1 541	341	27 300
3 or more	1 092	5	-	6	7	7	32	45	244	450	303	41 900
None or also used by another household	1 139	387	288	176	88	44	91	32	12	21	-	6 600
<b>HOUSEHOLD COMPOSITION</b>												
<b>Two-or-more-person households</b>	<b>52 077</b>	<b>847</b>	<b>2 599</b>	<b>5 015</b>	<b>6 404</b>	<b>6 392</b>	<b>13 264</b>	<b>8 427</b>	<b>6 154</b>	<b>2 295</b>	<b>680</b>	<b>16 800</b>
Male head, wife present, no nonrelatives	46 083	659	1 981	4 239	5 444	5 518	11 931	7 723	5 785	2 168	635	17 200
Under 25 years	1 552	8	45	189	296	265	438	61	11	-	-	14 700
25 to 34 years	9 414	76	325	631	882	1 129	2 840	1 866	1 285	305	75	18 100
35 to 44 years	10 982	110	295	696	981	1 128	2 859	2 252	1 808	703	150	19 100
45 to 64 years	18 251	250	824	1 784	2 217	2 211	4 493	2 824	2 294	995	359	16 900
65 years and over	5 884	215	492	939	1 068	785	1 301	542	337	154	51	13 200
Other male head	1 578	56	154	152	238	167	366	249	122	52	22	15 300
Under 65 years	1 324	33	111	112	211	132	333	220	108	46	18	16 000
65 years and over	254	23	43	40	27	35	33	29	14	6	4	11 900
Female head	4 416	132	464	624	722	707	967	455	247	75	23	13 400
Under 65 years	3 484	103	335	474	560	529	783	404	214	59	23	13 800
65 years and over	932	29	129	150	162	178	184	51	33	16	-	12 400
<b>One-person households</b>	<b>6 587</b>	<b>322</b>	<b>813</b>	<b>1 346</b>	<b>1 382</b>	<b>883</b>	<b>1 150</b>	<b>386</b>	<b>182</b>	<b>91</b>	<b>32</b>	<b>11 500</b>
Under 65 years	2 870	98	287	568	568	356	622	209	87	23	27	12 000
65 years and over	3 717	224	526	753	814	527	528	177	95	68	5	11 100
<b>INCOME IN 1969</b>												
Less than \$2,000	3 886	349	640	854	832	419	425	162	133	62	10	10 300
\$2,000 to \$2,999	2 559	123	397	531	523	342	416	125	53	23	26	11 100
\$3,000 to \$3,999	2 296	103	320	435	435	358	411	151	49	24	10	11 700
\$4,000 to \$4,999	2 150	90	248	396	475	327	429	114	56	15	-	11 800
\$5,000 to \$5,999	2 161	103	222	428	456	296	371	166	94	25	-	11 800
\$6,000 to \$6,999	2 573	86	293	472	461	366	575	198	101	16	5	12 400
\$7,000 to \$9,999	10 591	148	717	1 512	1 739	1 730	2 862	1 252	477	122	32	14 200
\$10,000 to \$14,999	17 904	128	464	1 346	2 161	2 478	5 654	3 367	1 909	325	72	17 100
\$15,000 to \$24,999	11 423	32	111	339	634	892	2 913	2 769	2 636	940	157	21 400
\$25,000 or more	3 121	7	-	48	70	67	358	509	828	834	400	31 100
Median	\$10 900	\$4 100	\$5 500	\$7 100	\$8 200	\$9 700	\$11 500	\$13 300	\$16 100	\$21 200	\$29 400	...
<b>YEAR MOVED INTO UNIT</b>												
1969 to March 1970	6 275	51	300	459	574	732	1 407	1 098	986	504	164	18 800
1968	4 642	39	166	284	499	427	989	907	840	415	76	19 500
1967	4 039	72	175	332	389	412	916	686	770	230	57	18 400
1965 and 1966	6 554	93	294	547	732	623	1 745	1 215	875	316	114	18 000
1960 to 1964	12 144	194	515	908	1 380	1 320	3 569	2 270	1 394	461	127	17 500
1950 to 1959	14 395	234	806	1 710	2 053	2 074	3 936	1 887	1 185	368	142	15 400
1949 or earlier	10 492	373	1 183	2 099	2 126	1 659	1 896	638	306	169	43	11 900
<b>HEATING EQUIPMENT</b>												
Steam or hot water	1 848	5	83	158	216	151	419	233	341	144	98	18 900
Warm-air furnace	54 340	714	2 743	5 667	7 260	6 966	13 804	8 460	5 934	2 201	591	16 400
Built-in electric units	172	12	16	7	14	6	28	35	6	25	23	20 400
Floor, wall, or pipeless furnace	926	93	216	299	177	65	49	6	14	7	-	8 800
Other means	1 373	354	354	225	119	87	114	79	41	9	-	7 400
None	5	-	-	5	-	-	-	-	-	-	-	...
<b>AIR CONDITIONING</b>												
Room unit(s)	22 204	212	969	2 330	3 407	3 439	6 498	3 423	1 457			

Table A-2. Gross Rent of Renter Occupied Housing Units: 1970

[Data based on sample, see text. For minimum base for derived figures (percent, median, etc.) and meaning of symbols, see text]

The SMSA	Total	Less than \$50	\$50 to \$59	\$60 to \$69	\$70 to \$79	\$80 to \$89	\$90 to \$99	\$100 to \$119	\$120 to \$149	\$150 to \$199	\$200 to \$299	\$300 or more	No cash rent	Median (dollars)
<b>Specified renter occupied<sup>1</sup></b>	27 704	1 121	1 047	1 562	2 238	4 520	4 318	5 085	5 150	1 495	213	955	113	
<b>ROOMS</b>														
1 room	1 645	394	140	146	300	354	117	119	32	-	-	-	43	74
2 rooms	3 383	338	397	466	535	666	426	294	156	15	-	-	90	78
3 rooms	6 882	259	336	634	804	1 590	1 308	1 034	664	106	5	5	142	97
4 rooms	8 165	84	118	210	378	1 117	1 212	1 837	2 339	569	75	226	134	134
5 rooms	4 586	18	40	79	136	546	838	1 184	1 071	382	93	199	134	134
6 rooms	1 942	22	16	17	54	174	305	413	539	265	22	115	144	144
7 rooms	745	6	-	10	9	56	82	167	229	119	5	62	153	153
8 rooms or more	356	-	-	-	22	17	30	37	120	39	13	78	164	164
Median	3.7	2.0	2.5	2.8	2.9	3.3	3.8	4.1	4.2	4.7	4.8	4.4	...	...
<b>PERSONS</b>														
1 person	9 875	908	762	952	1 286	1 872	1 303	1 277	894	230	55	336	88	88
2 persons	8 074	139	189	401	545	1 287	1 327	1 593	1 797	378	125	293	120	120
3 persons	4 328	47	42	145	234	684	727	913	1 102	304	10	120	127	127
4 persons	2 786	27	18	53	101	323	500	613	707	327	6	111	135	135
5 persons	1 356	-	25	-	37	195	227	379	306	138	5	44	134	134
6 persons or more	1 285	-	11	11	35	159	234	310	344	118	12	51	136	136
Median	2.0	1.1	1.2	1.3	1.4	1.8	2.1	2.3	2.4	3.0	1.9	2.0	...	...
Units with roomers, boarders, or lodgers	1 142	13	19	31	62	124	197	183	352	135	-	26	138	138
<b>PLUMBING FACILITIES BY PERSONS PER ROOM</b>														
<b>With all plumbing facilities</b>	25 786	552	759	1 231	1 890	4 369	4 240	5 070	5 139	1 489	213	834	117	117
0.50 or less	12 800	349	460	752	1 080	2 054	1 871	2 359	2 491	691	184	509	116	116
0.51 to 1.00	11 252	187	271	441	670	2 014	2 009	2 325	2 350	681	24	280	119	119
1.01 to 1.50	1 382	5	18	28	96	224	298	313	264	102	5	29	121	121
1.51 or more	1 352	11	10	28	96	224	298	313	264	102	5	29	121	121
<b>Lacking some or all plumbing facilities</b>	1 918	569	288	331	348	151	78	15	11	6	-	16	61	61
0.50 or less	929	227	220	160	140	68	40	10	5	6	-	59	59	59
0.51 to 1.00	902	333	62	144	197	58	34	5	6	6	-	57	62	62
1.01 to 1.50	58	9	-	23	7	10	4	-	-	-	-	5	...	...
1.51 or more	29	-	6	4	4	15	-	-	-	-	-	-	...	...
<b>BEDROOMS</b>														
None	2 620	412	267	341	490	687	105	190	69	-	-	59	75	75
1	10 731	592	540	1 023	1 156	2 480	2 291	1 529	851	149	-	120	95	95
2	10 838	64	124	115	181	1 424	1 905	2 658	3 017	607	185	558	135	135
3 or more	3 490	-	17	58	67	234	427	646	1 188	481	24	348	155	155
<b>YEAR STRUCTURE BUILT</b>														
1969 to March 1970	1 510	37	70	39	32	67	106	223	700	194	20	22	162	162
1965 to 1968	3 179	35	5	20	10	148	253	457	1 457	483	62	49	165	165
1960 to 1964	1 688	6	16	31	45	139	245	357	516	195	70	68	148	148
1950 to 1959	2 936	40	16	42	224	233	472	840	682	177	33	175	133	133
1940 to 1949	2 097	36	33	93	100	333	394	593	319	109	12	75	121	121
1939 or earlier	16 294	967	907	1 337	1 825	3 600	2 848	2 415	1 476	337	16	566	95	95
<b>ELEVATOR IN STRUCTURE</b>														
4 floors or more	2 571	20	22	144	368	652	333	261	309	208	185	69	103	103
With elevator	1 872	20	-	78	302	394	201	195	243	185	185	69	111	111
Walk-up	699	-	22	66	66	258	132	66	66	23	-	-	95	95
1 to 3 floors	25 108	1 048	926	1 393	1 526	4 173	4 395	4 762	4 816	1 029	24	1 016	114	114
<b>COMPLETE BATHROOMS</b>														
1 and 1/2	24 576	469	721	1 205	1 934	4 226	4 078	4 950	4 974	1 269	52	698	117	117
2 or more	875	8	7	-	6	17	29	64	182	306	153	103	224	224
None or also used by another household	2 281	652	349	358	418	220	94	46	20	7	-	117	62	62
<b>INCOME IN 1969</b>														
Less than \$2,000	4 319	526	415	423	569	748	476	471	345	116	5	225	83	83
\$2,000 to \$2,999	2 368	197	158	166	344	458	362	258	234	44	5	142	89	89
\$3,000 to \$3,999	2 474	97	102	211	317	553	406	363	282	70	-	73	97	97
\$4,000 to \$4,999	2 449	73	132	187	277	539	420	395	295	76	-	55	100	100
\$5,000 to \$5,999	2 159	45	58	144	190	448	368	459	346	53	5	43	109	109
\$6,000 to \$6,999	2 283	62	63	127	136	393	431	470	439	86	6	70	115	115
\$7,000 to \$9,999	5 115	89	86	205	244	826	980	1 179	1 171	181	5	149	121	121
\$10,000 to \$14,999	4 684	21	29	88	144	455	697	1 221	1 334	507	41	147	141	141
\$15,000 to \$24,999	1 490	11	-	5	17	86	148	251	621	260	56	35	167	167
\$25,000 or more	363	-	4	6	-	14	30	18	83	102	90	16	218	218
Median	\$6 100	\$2 200	\$2 700	\$3 900	\$3 600	\$4 900	\$6 300	\$7 300	\$8 600	\$11 200	\$22 100	\$4 700	...	...
<b>YEAR MOVED INTO UNIT</b>														
1969 to March 1970	14 543	505	439	760	1 223	2 219	2 277	2 529	3 284	978	57	272	117	117
1968	3 995	123	93	153	190	674	641	922	813	242	49	95	122	122
1967	2 103	68	44	75	191	359	303	458	367	132	13	93	118	118
1965 and 1966	2 567	125	198	177	199	406	380	556	319	80	27	100	107	107
1960 to 1964	2 522	153	205	211	260	432	326	384	276	90	44	141	96	96
1950 to 1959	1 369	58	168	210	287	206	155	64	35	15	15	113	90	90
1949 or earlier	633	97	40	19	85	86	68	56	53	25	-	104	83	83
<b>GROSS RENT AS PERCENTAGE OF INCOME</b>														
Less than 10 percent	1 690	229	120	198	198	330	279	138	118	57	23	...	86	86
10 to 14 percent	4 479	144	188	315	301	920	828	907	690	163	23	...	109	109
15 to 19 percent	4 678	87	115	248	311	745	823	1 119	957	246	27	...	120	120
20 to 24 percent	3 674	101	94	150	323	537	593	670	889	269	48	...	122	122
25 to 34 percent	4 277	213	161	177	312	685	610	852	990	257	20	...	119	119
35 percent or more	7 613	321	343	459	754	1 266	1 117	1 347	1 450	484	72	...	112	112
Not computed	1 293	26	26	15	39	37	68	52	56	19	-	955	108	108
<b>AIR CONDITIONING</b>														
Room unit(s)	8 418	120	95	234	340	1 101	1 160	2 276	2 276	498	6	312	133	133
Central system	2 801	21	7	53	8	78	183	314	1 134	707	185	111	180	180
None	16 513	988	975	1 276	2 010	3 284	2 858	2 470	1 766	377	14	495	96	96

<sup>1</sup>Excludes one-family homes on 10 acres or more.

**Table A-3. Income in 1969 of Families and Primary Individuals in Owner and Renter Occupied Housing Units: 1970**

[Data based on sample, see text. For minimum base for derived figures (percent, median, etc.) and meaning of symbols, see text!]

The SMSA	Total	Less	\$2,000	\$3,000	\$4,000	\$5,000	\$6,000	\$7,000	\$10,000	\$15,000	\$25,000	Median (dollars)
		than \$2,000	to \$2,999	to \$3,999	to \$4,999	to \$5,999	to \$6,999	to \$9,999	to \$14,999	to \$24,999	or more	
<b>Owner occupied housing units</b>	<b>65 004</b>	<b>4 628</b>	<b>2 969</b>	<b>2 712</b>	<b>2 493</b>	<b>2 598</b>	<b>2 966</b>	<b>11 776</b>	<b>19 295</b>	<b>12 232</b>	<b>3 335</b>	<b>10 600</b>
<b>ROOMS</b>												
1 and 2 rooms	373	95	42	48	21	13	20	51	62	21	-	4 100
3 rooms	1 704	490	206	166	97	95	114	343	131	47	15	3 900
4 rooms	11 369	1 217	910	747	721	719	795	2 459	2 801	896	104	7 700
5 rooms	23 126	1 627	991	1 009	907	943	1 107	4 820	7 688	3 549	485	10 100
6 rooms	14 449	674	482	495	516	480	607	2 516	4 837	3 089	753	11 500
7 rooms or more	13 983	525	338	247	231	348	323	1 587	3 776	4 630	1 978	14 500
<b>PERSONS</b>												
1 person	8 061	3 010	1 197	833	613	487	437	810	457	131	86	2 900
2 persons	19 929	1 002	1 396	1 426	1 144	1 140	1 209	3 600	4 983	3 050	979	9 200
3 and 4 persons	22 541	416	304	322	557	632	848	4 586	8 303	5 338	1 235	12 200
5 persons	7 726	127	40	85	93	179	237	1 495	2 924	1 983	563	12 700
6 persons or more	6 747	73	32	46	86	160	235	1 285	2 628	1 730	472	12 800
Units with roomers, boarders, or lodgers	1 232	171	110	106	74	91	86	209	229	114	42	6 700
<b>BEDROOMS</b>												
Less than 3	26 741	3 156	1 893	1 940	1 676	1 813	1 675	5 944	5 738	2 527	379	7 600
3	28 216	988	665	937	885	842	1 119	5 028	10 190	6 110	1 452	11 800
4 or more	10 046	440	162	159	152	218	200	1 428	2 859	3 125	1 303	14 000
<b>YEAR STRUCTURE BUILT</b>												
1969 to March 1970	1 483	69	13	36	31	37	81	272	470	362	112	12 200
1960 to 1968	12 791	250	137	185	243	258	331	2 022	4 698	3 653	1 014	13 200
1950 to 1959	16 305	613	436	395	382	527	610	2 953	5 638	3 727	1 023	12 000
1949 or earlier	34 425	3 696	2 383	2 096	1 837	1 776	1 944	6 529	8 489	4 490	1 186	8 600
<b>YEAR MOVED INTO UNIT</b>												
1969 to March 1970	7 308	332	111	200	237	302	479	1 680	2 328	1 270	369	10 700
1968	5 223	109	82	87	142	145	138	1 137	1 895	1 147	341	12 000
1960 to 1967	24 881	1 039	803	695	575	761	1 007	4 706	8 384	5 465	1 446	11 700
1959 or earlier	27 593	3 146	2 034	1 668	1 462	1 264	1 307	4 031	6 913	4 510	1 258	9 200
<b>SELECTED CHARACTERISTICS</b>												
Automatic clothes washing machine	51 220	2 026	1 530	1 807	1 721	1 795	2 200	9 788	16 437	10 931	2 985	11 400
Clothes dryer	44 719	1 206	988	1 147	1 289	1 422	1 858	8 511	15 180	10 220	2 898	12 000
Dishwasher	15 476	251	177	145	137	198	220	1 977	5 053	5 173	2 145	14 600
Home food freezer	20 830	820	529	675	700	601	802	4 020	6 667	4 450	1 566	11 700
Owned second home	2 393	79	36	63	103	101	128	251	775	528	329	12 800
With air conditioning	39 578	1 727	1 186	1 257	1 203	1 301	1 438	6 506	12 448	9 410	3 102	12 100
Room unit(s)	24 769	1 374	903	992	938	959	1 039	4 981	8 205	4 493	885	10 700
Central system	14 809	353	283	265	342	399	342	1 525	4 243	4 917	2 217	14 700
Automobiles available:												
1	27 978	1 975	1 722	1 701	1 532	1 627	1 845	6 307	7 795	2 988	486	8 700
2	26 188	283	206	339	391	590	694	4 337	9 810	7 389	2 149	13 200
3 or more	5 218	71	42	21	64	50	60	525	1 669	1 946	770	15 500
<b>Renter occupied housing units</b>	<b>28 411</b>	<b>4 352</b>	<b>2 389</b>	<b>2 509</b>	<b>2 482</b>	<b>2 198</b>	<b>2 317</b>	<b>5 326</b>	<b>4 846</b>	<b>1 592</b>	<b>400</b>	<b>6 100</b>
<b>ROOMS</b>												
1 room	1 649	530	260	210	102	149	121	136	98	28	15	3 200
2 rooms	3 383	690	379	435	427	296	239	450	219	37	11	4 000
3 rooms	6 896	1 396	668	756	835	551	575	1 068	743	251	53	4 800
4 rooms	8 239	696	574	602	616	643	714	1 765	1 839	481	109	7 100
5 rooms	4 753	383	338	356	313	342	397	1 083	1 015	409	117	7 700
6 rooms or more	3 491	257	170	150	189	217	271	824	932	386	95	8 800
<b>PERSONS</b>												
1 person	9 915	2 921	1 199	1 145	1 073	772	673	1 112	759	165	96	3 700
2 persons	8 301	848	610	662	750	655	752	1 603	1 568	683	170	6 800
3 and 4 persons	7 378	473	485	467	508	557	611	1 886	1 792	513	86	7 900
5 persons	1 442	82	46	148	69	79	148	313	409	126	22	8 400
6 persons or more	1 375	28	49	87	82	135	133	412	318	105	26	8 300
Units with roomers, boarders, or lodgers	1 147	336	143	151	119	90	56	138	95	13	6	3 600
<b>BEDROOMS</b>												
None	2 620	728	314	432	358	231	151	244	90	52	20	3 600
1	10 752	2 400	1 318	1 311	1 236	862	741	1 448	1 022	311	103	4 300
2	11 008	1 019	964	702	724	963	842	2 654	2 381	690	69	7 300
3 or more	4 032	242	103	128	268	207	416	1 089	1 011	451	117	8 800
<b>YEAR STRUCTURE BUILT</b>												
1969 to March 1970	1 510	195	136	116	66	116	110	326	276	125	44	7 100
1960 to 1968	4 900	403	250	311	240	373	380	937	1 310	548	148	8 600
1950 to 1959	2 966	290	155	199	214	242	188	660	741	230	47	7 900
1949 or earlier	19 035	3 464	1 848	1 883	1 962	1 467	1 639	3 403	2 519	689	161	5 200
<b>YEAR MOVED INTO UNIT</b>												
1969 to March 1970	14 722	2 140	1 221	1 303	1 400	1 255	1 284	2 851	2 398	698	172	6 000
1968	4 085	444	250	302	271	237	354	874	950	325	78	7 600
1960 to 1967	7 376	1 198	631	591	605	627	627	1 235	1 343	481	145	6 200
1959 or earlier	2 227	611	185	230	167	154	119	310	279	141	31	4 500
<b>GROSS RENT AS PERCENTAGE OF INCOME</b>												
Specified renter occupied <sup>1</sup>	27 704	4 319	2 368	2 474	2 449	2 159	2 283	5 115	4 684	1 490	363	6 000
Less than 15 percent	6 169	-	22	50	141	191	355	1 536	2 335	1 236	303	11 700
15 to 19 percent	4 678	11	29	112	315	467	558	1 546	1 467	156	17	8 600
20 to 24 percent	3 674	28	116	311	523	464	483	1 124	560	38	27	6 800
25 to 34 percent	4 277	186	434	762	761	639	644	697	140	14	-	5 000
35 percent or more	7 613	3 531	1 625	1 166	654	355	173	63	35	11	-	2 200
Not computed	1 293	563	142	73	55	43	70	149	147	35	16	2 600
<b>SELECTED CHARACTERISTICS</b>												
Automatic clothes washing machine	8 013	456	504	402	498	476	673	2 049	2 126	724	105	8 500
Clothes dryer	6 630	413	366	284	442	416	573	1 572	1 862	618	84	8 600
Dishwasher	1 976	115	64	17	107	104	237	388	491	365	88	9 700
Home food freezer	1 948	182	88	23	104	70	224	668	401	188	-	8 300
Owned second home	926	90	61	100	61	109	-	198	109	154	44	7 600
With air conditioning	11 464	1 102	525	776	744	849	984	2 255	2 789	1 101	339	8 000
Room unit(s)	8 644	846	442	645	616	650	794	1 731	2 059	716	145	7 600
Central system	2 820	256	83	131	128	199	190	524	730	385	194	9 400
Automobiles available:												
1	15 263	1 477	937	1 265	1 412	1 322	1 611	3 441	2 858	715	225	6 800
2	5 743	320	165	210	268	327	439	1 356	1 767	745	146	9 500
3 or more	765	84	54	26	56	55	31	136	160	123	40	8 700

<sup>1</sup>Excludes one-family homes on 10 acres or more.

Table A-4. Plumbing Facilities by Persons Per Room for Owner and Renter Occupied Housing Units: 1970

[Data based on sample, see text. For minimum base for derived figures (percent, median, etc.) and meaning of symbols, see text]

The SMSA	With all plumbing facilities					Lacking some or all plumbing facilities					
	Total	0.50 or less	0.51 to 1.00	1.01 to 1.50	1.51 or more	Total	0.50 or less	0.51 to 1.00	1.01 to 1.50	1.51 or more	
<b>Owner occupied housing units</b> .....	<b>65 004</b>	<b>63 959</b>	<b>33 130</b>	<b>27 178</b>	<b>3 166</b>	<b>485</b>	<b>1 045</b>	<b>687</b>	<b>263</b>	<b>89</b>	<b>6</b>
<b>PERSONS</b>											
1 person .....	8 061	7 658	7 641	17	—	—	403	389	14	—	—
2 persons .....	19 929	19 583	18 874	681	—	—	346	275	71	—	—
3 persons .....	11 254	11 171	4 763	6 374	10	24	83	23	60	—	—
4 persons .....	11 287	11 204	1 424	9 705	57	18	83	—	72	5	6
5 persons .....	7 726	7 653	428	6 765	431	29	73	—	41	32	—
6 persons or more .....	6 747	6 690	—	3 636	2 668	386	57	—	5	52	—
Median .....	2.9	2.9	2.0	4.2	6.3	7.5+	1.8	1.4	3.3	...	...
Units with roomers, boarders, or lodgers .....	1 232	1 228	575	591	53	9	4	4	—	—	—
<b>YEAR STRUCTURE BUILT</b>											
1969 to March 1970 .....	1 471	1 460	606	790	58	6	11	—	11	—	—
1965 to 1968 .....	5 471	5 450	2 172	3 057	196	25	21	9	6	6	—
1960 to 1964 .....	7 320	7 299	2 501	4 255	465	78	21	15	6	—	—
1950 to 1959 .....	16 256	16 144	7 023	8 001	1 003	117	112	50	52	10	—
1940 to 1949 .....	8 099	7 995	4 506	2 940	468	81	104	79	11	14	—
1939 or earlier .....	26 388	25 702	16 293	8 307	948	154	686	460	176	43	7
<b>INCOME IN 1969</b>											
Less than \$2,000 .....	4 628	4 250	3 679	504	62	5	378	317	50	5	6
\$2,000 to \$2,999 .....	2 969	2 867	2 488	352	22	5	102	84	14	4	—
\$3,000 to \$3,999 .....	2 712	2 620	2 163	410	26	21	92	78	14	—	—
\$4,000 to \$4,999 .....	2 493	2 417	1 819	528	61	9	76	41	31	4	—
\$5,000 to \$5,999 .....	2 598	2 539	1 671	704	136	28	59	37	9	13	—
\$6,000 to \$6,999 .....	2 966	2 920	1 767	972	153	28	46	21	15	10	—
\$7,000 to \$9,999 .....	11 776	11 636	4 891	5 761	874	110	140	55	42	43	—
\$10,000 to \$14,999 .....	19 295	19 169	7 304	10 437	1 217	211	126	39	82	5	—
\$15,000 to \$24,999 .....	12 232	12 212	5 369	6 244	540	59	20	9	6	5	—
\$25,000 or more .....	3 335	3 329	1 979	1 266	75	9	6	6	—	—	—
Median .....	\$10 600	\$10 700	\$8 800	\$12 100	\$11 000	\$10 900	\$3 500	\$2 300	\$6 900	...	...
<b>VALUE-INCOME RATIO</b>											
Specified owner occupied <sup>1</sup> .....	<b>58 664</b>	<b>57 868</b>	<b>29 248</b>	<b>25 163</b>	<b>2 983</b>	<b>474</b>	<b>796</b>	<b>510</b>	<b>207</b>	<b>73</b>	<b>6</b>
Less than 1.5 .....	25 310	24 986	10 407	12 543	1 790	246	324	122	134	68	—
1.5 to 1.9 .....	12 356	12 238	5 470	5 943	677	148	118	94	24	—	—
2.0 to 2.4 .....	6 739	6 712	3 198	3 192	264	58	27	19	8	—	—
2.5 to 2.9 .....	3 660	3 587	1 951	1 514	117	5	73	63	10	—	—
3.0 to 3.9 .....	3 503	3 439	2 385	989	58	7	64	59	5	—	—
4.0 or more .....	6 759	6 603	5 634	909	50	10	156	130	21	5	—
Not computed .....	337	303	203	73	27	—	34	23	5	—	6
<b>HEATING EQUIPMENT</b>											
Steam or hot water .....	2 272	2 261	1 344	809	83	25	11	11	—	—	—
Warm-air furnace .....	59 611	59 062	30 325	25 429	2 866	442	549	368	116	65	—
Built-in electric units .....	242	238	127	92	15	4	4	—	4	—	—
Floor, wall, or pipeless furnace .....	1 149	1 055	603	364	88	—	94	71	13	10	—
Other means .....	1 725	1 338	731	484	109	14	387	237	130	14	6
None .....	5	5	—	—	5	—	—	—	—	—	—
<b>Renter occupied housing units</b> .....	<b>28 411</b>	<b>26 444</b>	<b>13 108</b>	<b>11 549</b>	<b>1 416</b>	<b>371</b>	<b>1 967</b>	<b>945</b>	<b>935</b>	<b>58</b>	<b>29</b>
<b>PERSONS</b>											
1 person .....	9 915	8 523	7 525	998	—	—	1 392	874	518	—	—
2 persons .....	8 301	7 999	4 913	2 963	—	123	302	66	230	—	6
3 persons .....	4 428	4 271	575	3 584	112	—	157	5	123	29	—
4 persons .....	2 950	2 895	80	2 592	196	27	55	—	38	17	—
5 persons .....	1 442	1 425	15	1 018	332	60	17	—	17	—	—
6 persons or more .....	1 375	1 331	—	394	776	161	44	—	9	12	23
Median .....	2.0	2.1	1.4	3.0	5.7	5.1	1.2	1.0	1.4	...	...
Units with roomers, boarders, or lodgers .....	1 147	1 119	341	680	67	31	28	—	28	—	—
<b>YEAR STRUCTURE BUILT</b>											
1969 to March 1970 .....	1 455	1 425	682	692	38	13	30	14	16	—	—
1965 to 1968 .....	3 181	3 181	1 818	1 254	88	21	—	—	—	—	—
1960 to 1964 .....	1 746	1 746	740	894	86	26	—	—	—	—	—
1950 to 1959 .....	2 971	2 758	1 288	1 274	146	50	213	26	180	—	7
1940 to 1949 .....	2 157	2 108	823	1 043	191	51	49	17	22	4	6
1939 or earlier .....	16 900	15 142	7 753	6 359	821	209	1 758	964	705	70	19
<b>INCOME IN 1969</b>											
Less than \$2,000 .....	4 352	3 611	2 381	1 135	58	37	741	446	279	16	—
\$2,000 to \$2,999 .....	2 389	2 156	1 233	827	64	32	233	83	141	5	4
\$3,000 to \$3,999 .....	2 509	2 263	1 221	889	112	41	246	104	133	9	—
\$4,000 to \$4,999 .....	2 482	2 268	1 233	926	90	19	214	118	75	13	8
\$5,000 to \$5,999 .....	2 198	2 098	1 019	889	142	48	100	27	68	5	—
\$6,000 to \$6,999 .....	2 317	2 227	1 029	1 015	153	30	90	21	64	—	5
\$7,000 to \$9,999 .....	5 326	5 108	2 001	2 622	395	90	218	105	91	10	12
\$10,000 to \$14,999 .....	4 846	4 759	1 994	2 422	318	25	87	37	50	—	—
\$15,000 to \$24,999 .....	1 592	1 576	747	728	62	39	16	—	16	—	—
\$25,000 or more .....	400	378	250	96	22	10	22	4	18	—	—
Median .....	\$6 100	\$6 400	\$5 500	\$7 100	\$7 700	\$6 300	\$3 000	\$2 300	\$3 400	...	...
<b>GROSS RENT AS PERCENTAGE OF INCOME</b>											
Specified renter occupied <sup>2</sup> .....	<b>27 704</b>	<b>25 786</b>	<b>12 800</b>	<b>11 252</b>	<b>1 382</b>	<b>352</b>	<b>1 918</b>	<b>929</b>	<b>902</b>	<b>58</b>	<b>29</b>
Less than 10 percent .....	1 690	1 452	604	716	108	24	238	108	119	5	6
10 to 14 percent .....	4 479	4 253	1 799	2 108	266	80	226	81	145	—	—
15 to 19 percent .....	4 678	4 430	2 004	2 057	281	88	248	109	110	14	15
20 to 24 percent .....	3 674	3 501	1 646	1 596	244	15	173	74	90	5	4
25 to 34 percent .....	4 277	4 027	1 983	1 777	220	47	250	111	130	9	—
35 percent or more .....	7 613	6 983	4 082	2 589	230	82	630	366	247	13	4
Not computed .....	1 293	1 140	682	409	33	16	153	80	61	12	—
<b>HEATING EQUIPMENT</b>											
Steam or hot water .....	7 819	7 301	4 254	2 845	131	71	518	154	354	—	10
Warm-air furnace .....	18 734	17 645	8 213	7 996	1 177	259	1 089	616	427	41	5
Built-in electric units .....	199	199	62	137	—	—	—	—	—	—	—
Floor, wall, or pipeless furnace .....	603	555	265	246	35	9	48	16	21	5	6
Other means .....	1 056	744	314	325	73	32	312	159	133	12	8
None .....	—	—	—	—	—	—	—	—	—	—	—

<sup>1</sup>Limited to one-family homes on less than 10 acres and no business on property.

<sup>2</sup>Excludes one-family homes on 10 acres or more.

**Table A-5. Rooms in Owner and Renter Occupied Housing Units: 1970**

[Data based on sample, see text. For minimum base for derived figures (percent, median, etc.) and meaning of symbols, see text]

The SMSA	Total	1 room	2 rooms	3 rooms	4 rooms	5 rooms	6 rooms	7 rooms	8 rooms or more	Median
<b>Owner occupied housing units</b>	<b>65 004</b>	<b>121</b>	<b>252</b>	<b>1 704</b>	<b>11 369</b>	<b>23 126</b>	<b>14 449</b>	<b>7 378</b>	<b>6 605</b>	<b>5.3</b>
Units with 1 or more bathrooms and complete kitchen facilities for exclusive use, and direct access	63 511	109	155	1 472	10 988	22 686	14 292	7 128	6 681	5.3
<b>PERSONS</b>										
1 person	8 061	31	139	807	2 296	2 863	1 191	450	284	4.8
2 persons	19 929	28	93	659	4 937	7 436	4 207	1 504	1 065	5.1
3 persons	11 254	24	10	132	2 013	4 289	2 579	1 244	963	5.3
4 persons	11 287	14	10	62	1 329	4 241	2 733	1 474	1 424	5.5
5 persons	7 726	4	—	25	463	2 493	2 076	1 370	1 295	5.9
6 persons or more	6 747	20	—	19	331	1 804	1 663	1 336	1 574	6.2
Median	2.9	2.6	1.4	1.6	2.2	2.8	3.2	3.8	4.2	...
<b>PLUMBING FACILITIES BY PERSONS PER ROOM</b>										
<b>With all plumbing facilities</b>	<b>63 959</b>	<b>107</b>	<b>186</b>	<b>1 533</b>	<b>11 054</b>	<b>22 839</b>	<b>14 307</b>	<b>7 352</b>	<b>6 581</b>	<b>5.3</b>
0.50 or less	33 130	—	97	699	7 021	10 128	7 863	3 182	4 140	5.4
0.51 to 1.00	27 178	17	75	733	3 290	10 931	5 860	3 940	2 332	5.4
1.01 to 1.50	3 166	—	10	57	647	1 594	542	213	103	5.0
1.51 or more	485	90	4	44	96	186	42	17	6	4.5
<b>Lacking some or all plumbing facilities</b>	<b>1 045</b>	<b>14</b>	<b>66</b>	<b>171</b>	<b>315</b>	<b>287</b>	<b>142</b>	<b>26</b>	<b>24</b>	<b>4.4</b>
0.50 or less	687	—	42	108	212	171	114	16	24	4.4
0.51 to 1.00	263	14	18	58	52	92	19	10	—	4.3
1.01 to 1.50	89	—	—	5	51	24	9	—	—	...
1.51 or more	6	—	6	—	—	—	—	—	—	...
<b>BEDROOMS</b>										
None and 1	3 801	102	353	1 414	1 285	477	128	42	—	3.5
2	22 940	—	—	339	9 712	10 085	2 305	376	123	4.6
3	28 216	—	—	—	189	11 988	10 546	3 995	1 498	5.7
4 or more	10 046	—	—	—	—	493	1 502	3 527	4 524	7.4
<b>YEAR STRUCTURE BUILT</b>										
1969 to March 1970	1 483	—	—	43	212	507	179	212	330	5.5
1960 to 1968	12 791	24	11	125	1 242	4 687	2 618	1 938	2 146	5.6
1950 to 1959	16 305	15	105	359	3 131	6 664	3 751	1 392	888	5.2
1949 or earlier	34 425	82	136	1 177	6 784	11 268	7 901	3 836	3 241	5.3
<b>COMPLETE BATHROOMS</b>										
1 and 1 1/2	54 725	109	155	1 445	10 761	21 442	12 381	5 126	3 306	5.2
2 or more	8 820	—	—	27	233	1 258	1 911	2 002	3 389	7.0
None or also used by another household	1 460	18	74	225	368	485	205	52	33	4.6
<b>VALUE-INCOME RATIO</b>										
<b>Specified owner occupied<sup>1</sup></b>	<b>58 664</b>	<b>111</b>	<b>116</b>	<b>1 099</b>	<b>9 477</b>	<b>21 376</b>	<b>13 515</b>	<b>6 899</b>	<b>6 071</b>	<b>5.4</b>
Less than 1.5	25 310	31	41	402	4 622	9 295	5 780	2 886	2 253	5.3
1.5 to 1.9	12 356	37	15	160	1 488	4 632	3 024	1 595	1 405	5.5
2.0 to 2.9	10 399	26	22	157	1 235	3 791	2 338	1 384	1 446	5.5
3.0 or more	10 262	17	27	336	2 066	3 532	2 335	1 019	930	5.3
Not computed	337	—	11	44	66	126	38	15	37	4.9
<b>Renter occupied housing units</b>	<b>28 411</b>	<b>1 649</b>	<b>3 383</b>	<b>6 896</b>	<b>8 239</b>	<b>4 753</b>	<b>2 124</b>	<b>928</b>	<b>439</b>	<b>3.8</b>
Units with 1 or more bathrooms and complete kitchen facilities for exclusive use, and direct access	25 757	804	2 747	6 243	7 989	4 537	2 168	842	427	3.9
<b>PERSONS</b>										
1 person	9 915	1 516	2 454	3 457	1 692	594	159	22	21	2.8
2 persons	8 301	129	745	2 448	3 046	1 318	354	159	102	3.8
3 persons	4 428	—	141	698	1 878	1 131	392	130	58	4.2
4 persons	2 950	—	27	213	1 090	791	496	253	80	4.7
5 persons	1 442	4	6	54	332	483	315	190	62	5.2
6 persons or more	1 375	4	10	26	201	436	408	174	116	5.5
Median	2.0	1.0	1.2	1.5	2.3	2.9	3.8	4.1	4.0	...
<b>PLUMBING FACILITIES BY PERSONS PER ROOM</b>										
<b>With all plumbing facilities</b>	<b>26 444</b>	<b>1 125</b>	<b>2 719</b>	<b>6 422</b>	<b>8 080</b>	<b>4 670</b>	<b>2 066</b>	<b>928</b>	<b>434</b>	<b>3.9</b>
0.50 or less	13 108	—	1 918	3 191	4 661	1 868	888	311	271	3.8
0.51 to 1.00	11 549	998	650	2 963	2 900	2 370	979	549	140	3.9
1.01 to 1.50	1 416	—	112	196	450	394	189	57	18	4.4
1.51 or more	371	127	39	72	69	38	10	11	5	2.8
<b>Lacking some or all plumbing facilities</b>	<b>1 967</b>	<b>524</b>	<b>664</b>	<b>474</b>	<b>159</b>	<b>83</b>	<b>58</b>	<b>—</b>	<b>5</b>	<b>2.2</b>
0.50 or less	945	—	536	266	77	44	17	—	5	2.4
0.51 to 1.00	935	518	95	183	68	35	36	—	—	1.4
1.01 to 1.50	58	—	29	17	3	4	5	—	—	...
1.51 or more	29	6	4	8	11	—	—	—	—	...
<b>BEDROOMS</b>										
None	2 620	1 742	728	150	—	—	—	—	—	1.3
1	10 752	—	2 183	6 608	1 780	136	23	22	—	3.0
2	11 008	—	—	489	6 395	3 409	497	168	50	4.3
3 or more	4 032	—	—	—	43	1 432	1 231	905	421	5.9
<b>YEAR STRUCTURE BUILT</b>										
1969 to March 1970	1 510	68	147	238	758	224	60	10	5	3.9
1960 to 1968	4 900	189	464	1 023	2 247	703	176	61	37	3.8
1950 to 1959	2 966	243	171	501	1 009	631	284	81	46	4.1
1949 or earlier	19 035	1 149	2 601	5 134	4 225	3 195	1 604	776	351	3.6
<b>COMPLETE BATHROOMS</b>										
1 and 1 1/2	25 190	1 034	2 794	6 238	7 870	4 245	1 988	689	332	3.8
2 or more	902	7	6	13	137	299	180	159	101	5.5
None or also used by another household	2 318	566	751	573	251	100	58	6	13	2.3
<b>GROSS RENT AS PERCENTAGE OF INCOME</b>										
<b>Specified renter occupied<sup>2</sup></b>	<b>27 704</b>	<b>1 645</b>	<b>3 383</b>	<b>6 882</b>	<b>8 165</b>	<b>4 586</b>	<b>1 942</b>	<b>745</b>	<b>356</b>	<b>3.7</b>
Less than 10 percent	1 690	159	226	476	364	272	143	35	15	3.5
10 to 14 percent	4 479	199	520	1 101	1 316	825	367	127	24	3.8
15 to 19 percent	4 678	207	467	1 031	1 639	790	354	103	87	3.9
20 to 24 percent	3 674	130	431	842	1 128	687	251	135	70	3.9
25 to 34 percent	4 277	271	472	1 104	1 330	652	276	149	23	3.7
35 percent or more	7 613	626	1 129	2 053	2 087	1 125	412	122	59	3.5
Not computed	1 293	53	138	275	301	235	139	74	78	4.1

<sup>1</sup>Limited to one-family homes on less than 10 acres and no business on property.

<sup>2</sup>Excludes one-family homes on 10 acres or more.

Table A-6. Units in Structure for Owner and Renter Occupied Housing Units: 1970

[Data based on sample, see text. For minimum base for derived figures (percent, median, etc.) and meaning of symbols, see text!]

The SMSA	Owner occupied				Renter occupied							
	Total	1 unit	2 units or more	Mobile home or trailer	Total	1 unit	2 units	3 and 4 units	5 to 9 units	10 to 19 units	20 units or more	Mobile home or trailer
<b>All occupied housing units</b> .....	<b>65 004</b>	<b>61 008</b>	<b>2 420</b>	<b>1 576</b>	<b>28 411</b>	<b>9 332</b>	<b>3 746</b>	<b>3 235</b>	<b>4 616</b>	<b>3 736</b>	<b>3 513</b>	<b>233</b>
<b>ROOMS</b>												
1 room .....	121	111	-	10	1 649	54	36	129	375	300	755	-
2 rooms .....	252	116	53	83	3 383	115	244	637	1 072	420	870	25
3 rooms .....	1 704	1 149	291	264	6 896	762	1 025	1 338	1 603	1 134	952	82
4 rooms .....	11 369	9 688	800	881	8 239	2 538	1 509	757	1 132	1 558	624	121
5 rooms .....	23 126	22 037	781	308	4 753	2 954	655	306	327	250	261	-
6 rooms .....	14 449	14 133	296	20	2 124	1 659	213	58	84	65	40	5
7 rooms .....	7 378	7 252	116	10	928	852	55	-	12	4	5	-
8 rooms or more .....	6 605	6 522	83	-	439	398	9	10	11	5	6	-
Median .....	5.3	5.4	4.6	4.0	3.8	4.9	3.9	3.1	3.0	3.5	2.6	3.6
<b>PLUMBING FACILITIES BY PERSONS PER ROOM</b>												
<b>With all plumbing facilities</b> .....	<b>63 959</b>	<b>60 102</b>	<b>2 310</b>	<b>1 547</b>	<b>26 444</b>	<b>8 902</b>	<b>3 656</b>	<b>2 807</b>	<b>3 976</b>	<b>3 536</b>	<b>3 340</b>	<b>227</b>
0.50 or less .....	33 130	30 597	1 580	953	13 108	3 215	1 865	1 722	2 198	1 968	2 041	99
0.51 to 1.00 .....	27 178	25 958	659	561	11 549	4 611	1 565	961	1 614	1 457	1 234	107
1.01 to 1.50 .....	3 166	3 067	66	33	1 416	891	193	83	127	73	281	21
1.51 or more .....	485	480	5	-	371	185	33	41	37	38	37	-
<b>Lacking some or all plumbing facilities</b> .....	<b>1 045</b>	<b>906</b>	<b>110</b>	<b>29</b>	<b>1 967</b>	<b>430</b>	<b>90</b>	<b>428</b>	<b>640</b>	<b>200</b>	<b>173</b>	<b>4</b>
0.50 or less .....	687	579	98	10	945	209	53	244	358	65	10	6
0.51 to 1.00 .....	263	238	12	13	935	194	26	164	266	122	163	-
1.01 to 1.50 .....	89	83	-	6	58	8	11	20	10	9	-	-
1.51 or more .....	6	6	-	-	29	19	-	-	6	4	-	-
<b>BEDROOMS</b>												
None .....	197	142	55	-	2 620	48	98	304	637	472	1 061	-
1 .....	3 604	2 780	610	214	10 752	1 145	1 603	2 174	2 299	1 637	1 781	113
2 .....	22 940	20 777	1 199	964	11 008	4 757	1 708	878	1 217	1 555	665	228
3 .....	28 216	27 603	350	263	3 049	2 495	178	23	101	109	143	-
4 or more .....	10 046	9 979	67	-	983	951	16	-	16	-	-	-
<b>YEAR STRUCTURE BUILT</b>												
1969 to March 1970 .....	1 483	1 198	48	237	1 510	80	191	39	260	735	199	6
1965 to 1968 .....	5 539	4 823	152	564	3 184	193	297	60	674	1 011	897	52
1960 to 1964 .....	7 252	6 736	160	356	1 716	445	250	49	336	223	321	92
1950 to 1959 .....	16 305	15 642	295	368	2 966	1 475	422	238	220	91	446	74
1940 to 1949 .....	8 094	7 954	130	10	2 164	1 420	326	94	176	99	40	9
1939 or earlier .....	26 331	24 655	1 635	41	16 871	5 719	2 260	2 755	2 950	1 577	1 610	-
<b>INCOME IN 1969</b>												
Less than \$2,000 .....	4 628	4 079	346	203	4 352	821	464	760	1 088	560	633	26
\$2,000 to \$2,999 .....	2 969	2 642	245	82	2 389	615	317	373	372	327	370	15
\$3,000 to \$3,999 .....	2 712	2 420	178	114	2 509	627	348	309	462	374	378	11
\$4,000 to \$4,999 .....	2 493	2 262	139	92	2 482	659	346	425	444	292	296	20
\$5,000 to \$5,999 .....	2 598	2 317	143	138	2 198	561	273	230	419	307	367	41
\$6,000 to \$6,999 .....	2 964	2 683	177	106	2 317	864	289	242	402	288	222	10
\$7,000 to \$9,999 .....	11 776	11 008	354	414	5 326	2 240	773	490	663	664	428	68
\$10,000 to \$14,999 .....	19 295	18 540	455	300	4 846	2 167	676	332	647	576	411	37
\$15,000 to \$24,999 .....	12 232	11 779	336	117	1 592	671	224	54	96	286	256	5
\$25,000 or more .....	3 335	3 278	47	10	400	107	36	20	23	62	152	-
Median .....	\$10 600	\$10 800	\$6 900	\$7 400	\$6 100	\$7 700	\$6 400	\$4 400	\$4 900	\$6 000	\$5 200	\$6 400
<b>YEAR MOVED INTO UNIT</b>												
1969 to March 1970 .....	7 308	6 553	238	517	14 722	4 138	2 266	1 659	2 676	2 245	1 607	131
1968 .....	5 223	4 740	165	318	4 085	1 450	596	338	569	525	585	22
1967 .....	4 481	4 116	124	221	2 131	876	273	287	170	276	4	4
1965 and 1966 .....	7 156	6 735	213	208	2 607	1 070	265	363	380	207	315	7
1960 to 1964 .....	13 264	12 590	463	211	2 638	924	258	301	395	320	420	20
1950 to 1959 .....	15 003	14 306	543	154	1 472	496	127	199	260	190	192	8
1949 or earlier .....	12 590	11 829	744	17	755	330	65	70	128	68	94	-
<b>GROSS RENT</b>												
<b>Specified renter occupied<sup>1</sup></b> .....	<b>27 704</b>	<b>8 625</b>	<b>3 746</b>	<b>3 235</b>	<b>4 616</b>	<b>3 736</b>	<b>3 513</b>	<b>233</b>				
Less than \$50 .....	1 121	137	110	232	387	201	24	30				
\$50 to \$59 .....	1 047	124	76	293	363	84	96	11				
\$60 to \$69 .....	1 562	210	164	424	442	179	137	6				
\$70 to \$79 .....	2 238	415	305	423	429	202	459	5				
\$80 to \$99 .....	4 520	1 246	675	593	803	467	726	10				
\$100 to \$119 .....	4 318	1 657	623	522	780	336	333	67				
\$120 to \$149 .....	5 085	1 959	697	509	746	592	515	67				
\$150 to \$199 .....	5 150	1 740	762	131	530	1 254	716	17				
\$200 to \$299 .....	1 495	529	281	44	69	319	253	-				
\$300 or more .....	213	26	-	-	-	17	170	-				
No cash rent .....	955	582	53	64	67	85	84	20				
Median .....	\$113	\$124	\$117	\$86	\$96	\$138	\$116	\$113				
<b>HEATING EQUIPMENT</b>												
Steam or hot water .....	2 272	2 010	257	5	7 819	244	253	826	1 975	1 960	2 561	-
Warm-air furnace .....	59 611	56 235	2 084	1 292	18 734	7 845	3 296	2 298	2 479	1 727	934	155
Built-in electric units .....	242	225	6	11	199	74	25	15	45	30	-	10
Floor, wall, or pipeless furnace .....	1 149	974	38	137	603	389	73	59	49	-	6	27
Other means .....	1 725	1 559	35	131	1 056	780	99	37	68	19	12	41
None .....	5	5	-	-	-	-	-	-	-	-	-	-
<b>AIR CONDITIONING</b>												
Room unit(s) .....	24 769	22 954	1 005	810	8 644	2 707	990	602	1 387	1 506	1 421	31
Central system .....	14 809	14 205	394	210	2 820	377	523	99	369	868	538	46
None .....	25 427	23 710	1 091	626	16 946	6 200	2 337	2 474	2 939	1 351	1 530	115
<b>AUTOMOBILES AVAILABLE</b>												
1 .....	27 978	25 818	1 249	911	15 263	5 097	2 010	1 791	2 526	2 106	1 593	140
2 .....	26 188	25 106	623	459	5 743	2 589	1 010	293	756	655	412	28
3 or more .....	5 218	5 094	87	37	765	333	118	66	75	122	51	-
None .....	5 621	4 851	531	239	6 639	1 265	712	1 025	1 338	842	1 433	24

<sup>1</sup>Excludes one-family homes on 10 acres or more.

Table A-7. Household Composition for Owner and Renter Occupied Housing Units: 1970

[Data based on sample, see text. For minimum base for derived figures (percent, median, etc.) and meaning of symbols, see text]

The SMSA	Two-or-more-person households										One-person households	
	Total	Male head, wife present, no nonrelatives					Other male head		Female head		Under 65 years	65 years and over
		Under 25 years	25 to 34 years	35 to 44 years	45 to 64 years	65 years and over	Under 65 years	65 years and over	Under 65 years	65 years and over		
<b>Owner occupied housing units</b> .....	<b>65 004</b>	<b>1 880</b>	<b>10 056</b>	<b>11 576</b>	<b>20 036</b>	<b>6 704</b>	<b>1 446</b>	<b>330</b>	<b>3 804</b>	<b>1 111</b>	<b>3 572</b>	<b>4 489</b>
<b>PLUMBING FACILITIES BY PERSONS PER ROOM</b>												
With all plumbing facilities .....	63 959	1 870	9 980	11 499	19 874	6 541	1 413	314	3 729	1 081	3 441	4 217
0.50 or less .....	33 130	695	2 085	1 878	11 570	5 555	689	249	1 899	869	3 435	4 206
0.51 to 1.00 .....	27 178	1 120	6 995	8 077	7 534	932	644	61	1 605	193	6	11
1.01 to 1.50 .....	3 166	42	813	1 329	654	44	71	4	202	7	—	—
1.51 or more .....	485	13	87	215	116	10	9	—	23	12	—	—
Lacking some or all plumbing facilities .....	1 045	10	76	77	162	163	33	16	75	30	131	272
0.50 or less .....	687	—	5	6	87	99	14	10	52	25	117	272
0.51 to 1.00 .....	263	5	37	44	59	56	19	6	23	—	14	—
1.01 to 1.50 .....	89	5	34	27	10	8	—	—	—	5	—	—
1.51 or more .....	6	—	—	—	6	—	—	—	—	—	—	—
<b>UNITS IN STRUCTURE</b>												
1 .....	61 008	1 576	9 610	11 322	19 180	6 213	1 381	305	3 577	978	3 000	3 866
2 or more .....	2 420	56	173	175	554	354	24	25	162	120	326	451
Mobile home or trailer .....	1 576	248	273	79	302	137	41	—	65	13	246	172
<b>INCOME IN 1969</b>												
Less than \$2,000 .....	4 628	32	106	78	213	504	45	64	434	142	589	2 421
\$2,000 to \$2,999 .....	2 969	20	24	20	230	1 009	9	31	266	163	350	847
\$3,000 to \$3,999 .....	2 712	35	52	58	292	955	51	15	304	117	400	433
\$4,000 to \$4,999 .....	2 493	49	136	103	280	698	30	19	413	152	347	266
\$5,000 to \$5,999 .....	2 598	91	163	153	624	573	68	25	359	55	353	134
\$6,000 to \$6,999 .....	2 966	243	320	315	691	449	59	24	322	106	320	117
\$7,000 to \$7,999 .....	11 776	580	2 896	1 885	3 394	914	335	57	745	160	678	132
\$10,000 to \$14,999 .....	19 295	666	4 334	4 750	6 812	883	509	58	685	141	380	77
\$15,000 to \$24,999 .....	12 232	141	1 728	3 480	5 657	496	289	20	225	65	93	38
\$25,000 or more .....	3 335	23	297	734	1 843	223	51	17	51	10	62	24
Median .....	\$10 600	\$9 400	\$11 500	\$13 300	\$13 200	\$5 300	\$11 200	\$6 500	\$6 400	\$4 900	\$5 300	\$20 000
<b>VALUE-INCOME RATIO</b>												
Specified owner occupied <sup>1</sup> .....	58 664	1 552	9 414	10 982	18 251	5 884	1 324	254	3 484	932	2 870	3 717
Less than 1.5 .....	25 310	678	3 834	5 484	11 127	1 454	686	91	1 003	211	622	120
1.5 to 1.9 .....	12 356	458	2 762	2 966	3 572	972	251	9	527	116	561	162
2.0 to 2.4 .....	6 739	153	1 434	1 568	1 618	635	182	47	459	166	329	148
2.5 to 2.9 .....	3 660	129	748	416	687	543	82	24	359	80	309	283
3.0 to 3.9 .....	3 503	63	423	330	563	860	41	20	383	116	247	457
4.0 or more .....	6 759	71	196	212	638	1 409	61	63	663	243	743	2 460
Not computed .....	337	—	17	6	46	11	21	—	90	—	59	87
<b>Renter occupied housing units</b> .....	<b>28 411</b>	<b>3 579</b>	<b>4 103</b>	<b>1 715</b>	<b>2 540</b>	<b>1 063</b>	<b>1 312</b>	<b>122</b>	<b>3 690</b>	<b>372</b>	<b>6 339</b>	<b>3 576</b>
<b>PLUMBING FACILITIES BY PERSONS PER ROOM</b>												
With all plumbing facilities .....	26 444	3 500	4 016	1 675	2 416	992	1 273	117	3 576	356	5 365	3 158
0.50 or less .....	13 108	928	878	243	1 122	639	513	72	1 028	160	4 793	2 732
0.51 to 1.00 .....	11 549	2 335	2 559	1 154	1 119	314	693	40	2 155	182	572	426
1.01 to 1.50 .....	1 416	207	479	225	139	12	33	—	307	14	—	—
1.51 or more .....	371	30	100	53	36	27	34	5	86	—	—	—
Lacking some or all plumbing facilities .....	1 967	79	87	40	124	71	39	5	114	16	974	418
0.50 or less .....	945	—	10	—	21	22	7	—	11	—	538	336
0.51 to 1.00 .....	935	61	64	35	99	49	22	—	71	16	436	82
1.01 to 1.50 .....	58	18	5	—	4	—	5	—	22	—	—	—
1.51 or more .....	29	—	8	5	—	—	6	—	10	—	—	—
<b>UNITS IN STRUCTURE</b>												
1 .....	9 332	1 254	2 253	1 212	1 402	351	312	43	1 346	120	570	469
2 to 4 .....	6 981	1 008	848	222	439	220	338	25	1 084	73	1 795	929
5 to 19 .....	8 352	1 084	790	229	436	311	547	32	1 047	139	2 554	1 183
20 or more .....	3 513	172	191	42	253	158	110	22	173	36	1 376	980
Mobile home or trailer .....	233	61	21	10	10	23	5	—	40	4	44	15
<b>GROSS RENT</b>												
Specified renter occupied <sup>2</sup> .....	27 704	3 517	3 941	1 553	2 319	1 043	1 292	122	3 670	372	6 316	3 559
Less than \$50 .....	1 121	27	35	12	41	37	10	13	38	—	507	401
\$50 to \$59 .....	1 047	32	20	13	36	19	13	5	140	7	396	366
\$60 to \$69 .....	1 562	101	59	45	108	53	32	10	149	53	628	324
\$70 to \$79 .....	2 238	190	92	31	123	112	62	17	282	43	888	398
\$80 to \$99 .....	4 520	629	420	197	261	192	175	10	692	72	1 174	698
\$100 to \$119 .....	4 318	727	704	238	335	137	208	21	600	45	874	429
\$120 to \$149 .....	5 085	963	957	330	374	126	225	13	763	57	839	438
\$150 to \$199 .....	5 150	714	1 214	403	532	155	371	6	814	47	701	193
\$200 to \$299 .....	1 495	86	355	188	220	64	169	—	165	18	135	95
\$300 or more .....	213	—	16	5	66	54	—	—	—	5	17	38
No cash rent .....	955	48	69	91	223	94	27	15	27	25	157	179
<b>GROSS RENT AS PERCENTAGE OF INCOME BY INCOME</b>												
Specified renter occupied <sup>2</sup> .....	27 704	3 517	3 941	1 553	2 319	1 043	1 292	122	3 670	372	6 316	3 559
Less than \$5,000 .....	11 610	797	308	141	321	533	586	81	2 285	243	3 283	3 032
Less than 20 percent .....	680	29	4	—	23	21	17	7	80	11	388	100
20 to 24 percent .....	978	69	36	21	29	42	12	11	129	29	449	151
25 to 34 percent .....	2 143	178	98	29	86	80	64	10	476	42	636	444
35 percent or more .....	6 976	505	150	75	146	320	460	38	1 465	134	1 564	2 119
Not computed .....	833	16	20	16	37	70	33	15	135	27	246	218
\$5,000 to \$9,999 .....	9 557	1 891	1 719	592	883	259	409	21	1 154	83	2 199	347
Less than 20 percent .....	4 653	940	777	321	420	125	152	5	405	42	1 336	130
20 to 24 percent .....	2 071	441	477	87	178	47	103	11	209	5	409	104
25 to 34 percent .....	1 980	364	371	94	138	49	97	—	409	22	365	71
35 percent or more .....	591	119	65	38	46	26	52	—	131	9	73	32
Not computed .....	262	27	29	52	101	12	5	—	—	5	16	10
\$10,000 to \$14,999 .....	4 684	737	1 489	497	650	127	222	4	183	16	645	114
Less than 20 percent .....	3 802	680	1 162	392	503	93	150	4	160	9	587	62
20 to 24 percent .....	560	41	257	67	60	17	42	—	23	—	42	11
25 percent or more .....	175	6	50	19	6	14	—	—	—	7	11	41
Not computed .....	147	10	20	19	66	11	16	—	—	—	5	—
\$15,000 or more .....	1 853	92	425	323	465	124	75	16	48	30	189	66
Less than 20 percent .....	1 712	92	415	308	419	92	75	10	48	25	172	56
20 to 24 percent .....	65	—	—	5	17	10	—	—	—	5	12	10
25 percent or more .....	25	—	4	—	5	16	—	—	—	—	—	—
Not computed .....	51	—	6	10	24	6	—	—	—	—	5	—

<sup>1</sup>Limited to one-family homes on less than 10 acres and no business on property. <sup>2</sup>Excludes one-family homes on 10 acres or more.

Table A-8. Persons in Owner and Renter Occupied Housing Units: 1970

(Data based on sample, see text. For minimum base for derived figures (percent, median, etc.) and meaning of symbols, see text)

The SMSA	Total	1 person	2 persons	3 persons	4 persons	5 persons	6 persons	7 persons	8 persons or more	Median
<b>Owner occupied housing units</b> -----	<b>65 004</b>	<b>8 061</b>	<b>19 929</b>	<b>11 254</b>	<b>11 287</b>	<b>7 726</b>	<b>3 972</b>	<b>1 754</b>	<b>1 021</b>	<b>1.9</b>
<b>BEDROOMS</b>										
None and 1 -----	3 801	1 546	1 758	312	102	60	--	--	23	1.7
2 -----	22 940	4 530	10 552	4 198	2 185	888	405	120	62	2.2
3 -----	28 216	1 639	6 651	5 459	7 148	4 419	2 022	516	362	3.6
4 or more -----	10 046	468	1 193	1 108	1 922	2 344	1 463	853	695	4.6
<b>YEAR STRUCTURE BUILT</b>										
1969 to March 1970 -----	1 483	81	327	314	362	256	89	36	18	3.6
1965 to 1968 -----	5 539	160	1 115	984	1 499	1 002	542	140	97	3.8
1960 to 1964 -----	7 252	277	1 431	1 185	1 899	1 461	646	225	128	3.9
1950 to 1959 -----	16 305	1 217	4 754	3 230	3 224	2 186	996	455	243	3.2
1940 to 1949 -----	8 094	1 118	2 900	1 412	1 264	760	381	161	98	2.5
1939 or earlier -----	26 331	5 208	9 402	4 129	3 039	2 061	1 318	737	437	2.3
<b>UNITS IN STRUCTURE</b>										
1 -----	61 008	6 866	18 328	10 662	10 914	7 586	3 908	1 727	1 017	3.0
2 or more -----	2 420	777	922	321	219	115	39	23	4	2.0
Mobile home or trailer -----	1 576	418	679	271	154	25	25	4	--	2.0
<b>COMPLETE BATHROOMS</b>										
1 and 1 1/2 -----	54 725	7 168	17 574	9 588	9 282	6 067	3 001	1 353	692	2.8
2 and 2 1/2 -----	7 606	319	1 709	1 344	1 587	1 368	755	352	172	3.8
3 or more -----	1 214	67	164	211	260	214	120	85	93	4.1
None or also used by another household -----	1 460	452	523	134	140	95	73	26	17	2.0
<b>HOUSEHOLD COMPOSITION</b>										
<b>Two-or-more-person households</b> -----	<b>56 943</b>	...	<b>19 929</b>	<b>11 254</b>	<b>11 287</b>	<b>7 726</b>	<b>3 972</b>	<b>1 754</b>	<b>1 021</b>	<b>3.3</b>
Male head, wife present, no nonrelatives -----	50 252	...	16 726	9 750	10 354	7 187	3 712	1 621	902	3.4
Under 25 years -----	1 880	...	545	689	513	94	30	4	5	4.1
25 to 34 years -----	10 056	...	986	1 886	3 501	2 246	1 036	303	98	3.7
35 to 44 years -----	11 576	...	748	1 313	3 136	3 222	1 785	885	487	2.7
45 to 64 years -----	20 036	...	8 943	4 980	3 013	1 583	805	404	308	2.1
65 years and over -----	6 704	...	5 504	882	191	42	56	25	4	2.8
Other male head -----	1 776	...	784	398	241	149	97	54	53	3.0
Under 65 years -----	1 446	...	550	352	241	118	93	49	43	2.2
65 years and over -----	330	...	234	46	31	4	5	10	10	2.5
Female head -----	4 915	...	2 419	1 106	692	390	163	79	66	2.8
Under 65 years -----	3 804	...	1 594	927	622	381	135	79	66	2.2
65 years and over -----	1 111	...	825	179	70	9	28	--	--	1.8
<b>One-person households</b> -----	<b>8 061</b>	<b>8 061</b>	...	...	...	...	...	...	...	<b>1.0</b>
<b>VALUE-INCOME RATIO</b>										
<b>Specified owner occupied<sup>1</sup></b> -----	<b>58 464</b>	<b>6 587</b>	<b>17 465</b>	<b>10 325</b>	<b>10 518</b>	<b>7 318</b>	<b>3 818</b>	<b>1 675</b>	<b>958</b>	<b>3.6</b>
Less than 1.5 -----	25 310	742	7 301	5 453	4 869	3 484	2 036	921	504	3.3
1.5 to 1.9 -----	12 356	723	3 406	2 339	2 567	1 845	821	422	233	3.4
2.0 to 2.4 -----	6 739	477	1 935	1 008	1 472	1 008	503	193	143	3.4
2.5 to 2.9 -----	3 660	592	1 050	604	688	403	228	54	41	2.8
3.0 to 3.9 -----	3 503	704	1 439	410	475	296	117	58	4	2.2
4.0 or more -----	6 759	3 203	2 258	468	409	271	96	21	33	1.6
Not computed -----	337	146	76	43	38	11	17	6	--	1.8
<b>Renter occupied housing units</b> -----	<b>28 411</b>	<b>9 915</b>	<b>8 301</b>	<b>4 428</b>	<b>2 950</b>	<b>1 442</b>	<b>733</b>	<b>412</b>	<b>230</b>	<b>1.0</b>
<b>BEDROOMS</b>										
None -----	2 620	2 299	270	22	29	--	--	--	--	1.1
1 -----	10 752	5 857	3 449	1 072	237	94	43	--	--	1.4
2 -----	11 008	1 677	3 791	2 732	1 631	658	329	121	69	2.5
3 or more -----	4 032	69	514	760	1 004	691	547	271	176	4.2
<b>YEAR STRUCTURE BUILT</b>										
1969 to March 1970 -----	1 510	381	504	340	146	98	35	6	--	2.2
1965 to 1968 -----	3 184	971	1 301	545	275	50	29	13	--	2.0
1960 to 1964 -----	1 716	371	590	351	243	85	52	10	14	2.3
1950 to 1959 -----	2 966	901	777	510	423	189	100	57	9	2.2
1940 to 1949 -----	2 164	486	588	437	314	195	81	43	20	2.5
1939 or earlier -----	16 871	6 805	4 541	2 245	1 549	825	436	283	187	1.9
<b>UNITS IN STRUCTURE</b>										
1 -----	9 332	1 039	2 244	1 992	1 762	1 116	595	370	214	3.2
2 -----	3 746	1 000	1 331	722	491	114	52	30	6	2.2
3 and 4 -----	3 235	1 724	977	333	134	48	19	--	--	1.4
5 to 9 -----	4 616	2 252	1 468	574	227	53	34	8	--	1.5
10 to 19 -----	3 736	1 485	1 390	547	197	86	22	4	5	1.8
20 or more -----	3 513	2 356	799	215	123	10	5	--	--	1.2
Mobile home or trailer -----	233	59	92	45	16	15	6	--	--	2.1
<b>COMPLETE BATHROOMS</b>										
1 and 1 1/2 -----	25 190	8 246	7 717	4 058	2 653	1 325	599	394	198	2.1
2 or more -----	902	106	227	164	191	99	70	14	31	3.2
None or also used by another household -----	2 318	1 582	356	195	114	21	32	11	7	1.2
<b>HOUSEHOLD COMPOSITION</b>										
<b>Two-or-more-person households</b> -----	<b>18 496</b>	...	<b>8 301</b>	<b>4 428</b>	<b>2 950</b>	<b>1 442</b>	<b>733</b>	<b>412</b>	<b>230</b>	<b>2.7</b>
Male head, wife present, no nonrelatives -----	13 000	...	5 412	3 209	2 254	1 093	550	289	193	2.8
Under 25 years -----	3 579	...	1 651	1 355	425	93	32	23	--	2.6
25 to 34 years -----	4 103	...	1 090	1 015	1 107	467	245	127	52	3.4
35 to 44 years -----	1 715	...	299	294	407	368	194	56	97	4.1
45 to 64 years -----	2 540	...	1 436	471	286	152	76	79	40	2.4
65 years and over -----	1 063	...	936	74	29	13	3	4	4	2.1
Other male head -----	1 434	...	935	289	134	32	20	20	4	2.3
Under 65 years -----	1 312	...	828	124	32	20	20	20	4	2.1
65 years and over -----	122	...	107	5	10	--	--	--	--	2.6
Female head -----	4 062	...	1 954	930	562	317	163	103	33	2.7
Under 65 years -----	3 690	...	1 657	891	551	298	163	97	33	2.1
65 years and over -----	372	...	297	39	11	19	--	6	--	2.1
<b>One-person households</b> -----	<b>9 915</b>	<b>9 915</b>	...	...	...	...	...	...	...	<b>1.0</b>
<b>GROSS RENT AS PERCENTAGE OF INCOME</b>										
<b>Specified renter occupied<sup>2</sup></b> -----	<b>27 704</b>	<b>9 875</b>	<b>8 074</b>	<b>4 328</b>	<b>2 786</b>	<b>1 356</b>	<b>673</b>	<b>398</b>	<b>214</b>	<b>2.0</b>
Less than 10 percent -----	1 690	514	598	242	179	71	46	20	20	2.1
10 to 14 percent -----	4 479	1 079	1 535	862	483	317	85	79	39	2.3
15 to 19 percent -----	4 678	1 238	1 480	855	550	247	164	98	46	2.2
20 to 24 percent -----	3 674	1 188	956	624	502	206	123	43	32	2.2
25 to 34 percent -----	4 277	1 556	1 178	714	403	215	103	82	26	2.0
35 percent or more -----	7 613	3 800	1 967	874	507	245	114	64	42	1.5
Not computed -----	1 293	500	360	157	162	55	38	12	9	1.9

<sup>1</sup>Limited to one-family homes on less than 10 acres and no business on property.

<sup>2</sup>Excludes one-family homes on 10 acres or more.

**Table A—9. Duration of Vacancy for Year-Round Vacant for Sale and Vacant for Rent Housing Units: 1970**

[Data based on sample, see text. For minimum base for derived figures (percent, median, etc.) and meaning of symbols, see text]

The SMSA					The SMSA				
	Total	Less than 2 months	2 up to 6 months	6 months or more		Total	Less than 2 months	2 up to 6 months	6 months or more
<b>Vacant for sale</b> .....	<b>809</b>	<b>448</b>	<b>232</b>	<b>129</b>	<b>Vacant for rent</b> .....	<b>2 660</b>	<b>1 883</b>	<b>531</b>	<b>246</b>
<b>ROOMS</b>					<b>ROOMS</b>				
1 to 3 rooms .....	33	10	8	15	1 room .....	255	207	31	17
4 rooms .....	121	72	28	21	2 rooms .....	452	356	61	35
5 rooms .....	290	173	82	35	3 rooms .....	720	517	134	69
6 rooms .....	174	85	57	32	4 rooms .....	706	514	163	29
7 rooms or more .....	191	108	57	26	5 rooms .....	343	184	109	50
					6 rooms .....	104	72	20	12
					7 rooms or more .....	80	33	13	34
<b>PLUMBING FACILITIES</b>					<b>PLUMBING FACILITIES</b>				
With all plumbing facilities .....	797	448	227	122	With all plumbing facilities .....	2 244	1 571	480	193
Lacking some or all plumbing facilities .....	12	—	5	7	Lacking some or all plumbing facilities .....	416	312	51	53
<b>BEDROOMS</b>					<b>BEDROOMS</b>				
None and 1 .....	81	41	40	—	None .....	409	286	62	61
2 .....	255	217	24	14	1 .....	1 207	794	274	139
3 .....	253	164	87	—	2 .....	664	540	107	17
4 or more .....	214	84	92	38	3 or more .....	318	132	139	47
<b>YEAR STRUCTURE BUILT</b>					<b>YEAR STRUCTURE BUILT</b>				
1969 to March 1970 .....	167	112	46	9	1969 to March 1970 .....	556	407	149	—
1960 to 1968 .....	145	73	50	22	1960 to 1968 .....	251	201	46	4
1950 to 1959 .....	119	77	26	16	1950 to 1959 .....	190	131	42	17
1949 or earlier .....	378	186	110	82	1949 or earlier .....	1 663	1 144	294	225
<b>UNITS IN STRUCTURE</b>					<b>UNITS IN STRUCTURE</b>				
1 .....	780	432	223	125	1 .....	535	314	107	114
2 or more .....	29	16	9	4	2 to 4 .....	496	319	110	67
					5 to 9 .....	589	439	101	49
					10 to 19 .....	586	440	134	12
					20 or more .....	454	371	79	4
<b>HEATING EQUIPMENT</b>					<b>RENT ASKED</b>				
Steam or hot water .....	9	9	—	—	<b>Specified vacant for sale<sup>1</sup></b> .....	<b>761</b>	<b>426</b>	<b>218</b>	<b>117</b>
Warm-air furnace .....	747	418	207	122	Less than \$5,000 .....	29	11	7	7
Built-in electric units .....	8	5	3	—	\$5,000 to \$9,999 .....	196	92	46	58
Floor, wall, or pipeless furnace .....	38	16	22	—	\$10,000 to \$14,999 .....	164	96	50	18
Other means .....	7	—	—	7	\$15,000 to \$19,999 .....	110	56	41	13
None .....	—	—	—	—	\$20,000 to \$24,999 .....	110	88	22	—
					\$25,000 to \$34,999 .....	88	51	20	17
					\$35,000 to \$49,999 .....	59	32	23	4
					\$50,000 or more .....	5	—	5	—
					Median price asked .....	\$14 700	\$16 300	\$15 200	\$9 600
					<b>Specified vacant for rent<sup>2</sup></b> .....	<b>2 612</b>	<b>1 872</b>	<b>515</b>	<b>225</b>
					Less than \$50 .....	215	157	31	27
					\$50 to \$59 .....	185	118	44	23
					\$60 to \$79 .....	596	429	96	71
					\$80 to \$99 .....	424	297	90	37
					\$100 to \$119 .....	247	158	62	27
					\$120 to \$149 .....	339	246	75	18
					\$150 to \$199 .....	454	360	76	18
					\$200 or more .....	152	107	41	4
					Median rent asked .....	\$95	\$96	\$99	\$78

<sup>1</sup>Limited to one-family homes on less than 10 acres and no business on property. <sup>2</sup>Excludes one-family homes on 10 acres or more.

**Table A—10. Sales Price Asked and Rent Asked for Year-Round Vacant Housing Units: 1970**

[Data based on sample, see text. For meaning of symbols, see text]

The SMSA	Sales price asked—Vacant for sale <sup>1</sup>							Rent asked—Vacant for rent <sup>2</sup>						
	Total	Less than \$10,000	\$10,000 to \$14,999	\$15,000 to \$19,999	\$20,000 to \$24,999	\$25,000 to \$34,999	\$35,000 or more	Total	Less than \$60	\$60 to \$79	\$80 to \$99	\$100 to \$149	\$150 to \$199	\$200 or more
<b>Total</b> .....	<b>761</b>	<b>225</b>	<b>164</b>	<b>110</b>	<b>110</b>	<b>88</b>	<b>64</b>	<b>2 612</b>	<b>400</b>	<b>596</b>	<b>424</b>	<b>586</b>	<b>454</b>	<b>152</b>
<b>PLUMBING FACILITIES</b>														
With all plumbing facilities .....	771	196	155	151	57	146	66	2 098	168	385	498	464	450	133
Lacking some or all plumbing facilities .....	—	—	—	—	—	—	—	434	235	123	61	—	15	—
<b>BEDROOMS</b>														
None and 1 .....	66	42	24	—	—	—	—	1 616	358	386	454	310	108	—
2 .....	238	106	84	48	—	—	—	648	15	60	61	92	325	95
3 .....	253	17	15	103	57	47	14	223	14	48	29	62	32	38
4 or more .....	214	31	32	—	—	99	52	45	16	14	15	—	—	—
<b>YEAR STRUCTURE BUILT</b>														
1969 to March 1970 .....	154	—	—	21	49	39	45	556	4	11	16	162	246	117
1960 to 1968 .....	145	19	20	23	35	34	14	251	5	—	10	78	141	17
1950 to 1959 .....	115	39	20	22	14	15	5	190	10	84	29	63	4	—
1949 or earlier .....	347	167	124	44	12	—	—	1 615	381	501	369	283	63	18
<b>UNITS IN STRUCTURE</b>														
1 .....	...	...	...	...	...	...	...	487	75	121	108	138	41	4
2 to 4 .....	...	...	...	...	...	...	...	496	91	181	131	70	23	—
5 to 19 .....	...	...	...	...	...	...	...	1 175	209	220	158	280	259	49
20 or more .....	...	...	...	...	...	...	...	454	25	74	27	98	131	99
<b>INCLUSION OF UTILITIES IN RENT</b>														
All utilities included .....	...	...	...	...	...	...	...	1 346	321	389	287	232	72	45
Some or no utilities included .....	...	...	...	...	...	...	...	1 266	79	207	137	354	382	107

<sup>1</sup>Limited to one-family homes on less than 10 acres and no business on property. <sup>2</sup>Excludes one-family homes on 10 acres or more.

**Table B-1. Value of Owner Occupied Housing Units: 1970**

[Data based on sample, see text. For minimum base for derived figures (percent, median, etc.) and meaning of symbols, see text]

<b>Des Moines</b>	Total	Less than \$5,000	\$5,000 to \$7,499	\$7,500 to \$9,999	\$10,000 to \$12,499	\$12,500 to \$14,999	\$15,000 to \$19,999	\$20,000 to \$24,999	\$25,000 to \$34,999	\$35,000 to \$49,999	\$50,000 or more	Median (dollars)
<b>Specified owner occupied<sup>1</sup></b>	<b>41 895</b>	<b>828</b>	<b>2 625</b>	<b>5 368</b>	<b>6 575</b>	<b>6 056</b>	<b>10 931</b>	<b>5 045</b>	<b>3 044</b>	<b>939</b>	<b>484</b>	<b>14 800</b>
<b>ROOMS</b>												
1 and 2 rooms	165	52	33	16	18	16	10	11	9	-	-	7 300
3 rooms	832	143	255	260	102	15	42	10	5	-	-	7 700
4 rooms	7 632	251	832	1 623	2 124	1 623	1 041	103	35	-	-	11 300
5 rooms	15 628	200	936	2 147	2 371	2 455	5 341	1 704	422	37	15	14 700
6 rooms	9 382	127	394	893	1 223	1 245	2 789	1 684	826	160	41	16 600
7 rooms	4 496	30	102	288	474	444	1 158	888	791	223	98	19 000
8 rooms or more	3 760	25	73	141	263	258	550	645	956	519	330	24 400
Median	5.3	4.4	4.7	4.9	4.9	5.1	5.3	5.9	6.8	7.5+	7.5+	...
<b>PERSONS</b>												
1 person	5 509	245	648	1 174	1 205	742	967	279	150	67	32	11 400
2 persons	13 264	339	981	1 899	2 184	2 031	3 137	1 446	844	246	157	14 000
3 persons	7 381	76	324	825	1 167	1 124	2 175	905	535	169	81	15 400
4 persons	6 867	41	236	641	825	1 021	2 082	1 143	595	215	68	16 700
5 persons	4 667	50	168	391	549	634	1 438	664	539	156	78	16 700
6 persons or more	4 207	77	268	438	645	504	1 132	608	381	86	68	15 700
Median	2.8	2.0	2.2	2.3	2.5	2.7	3.1	3.4	3.5	3.4	3.2	...
Units with roomers, boarders, or lodgers	897	20	70	108	183	124	209	114	49	15	5	13 900
<b>PLUMBING FACILITIES BY PERSONS PER ROOM</b>												
<b>With all plumbing facilities</b>	<b>41 490</b>	<b>636</b>	<b>2 508</b>	<b>5 308</b>	<b>6 560</b>	<b>6 056</b>	<b>10 926</b>	<b>5 029</b>	<b>3 044</b>	<b>939</b>	<b>484</b>	<b>14 900</b>
0.50 or less	22 024	347	1 500	3 161	3 652	3 107	5 047	2 425	1 761	656	368	14 400
0.51 to 1.00	17 094	197	773	1 776	2 437	2 623	5 239	2 403	1 247	283	116	15 700
1.01 to 1.50	2 032	71	193	307	400	286	562	186	27	-	-	12 900
1.51 or more	340	21	42	64	71	40	78	15	9	-	-	11 500
<b>Lacking some or all plumbing facilities</b>	<b>405</b>	<b>192</b>	<b>117</b>	<b>60</b>	<b>15</b>	<b>-</b>	<b>5</b>	<b>11</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>5 200</b>
0.50 or less	282	138	82	46	5	-	16	-	-	-	-	5 100
0.51 to 1.00	96	41	21	14	10	-	5	5	-	-	-	...
1.01 to 1.50	27	13	14	-	-	-	-	-	-	-	-	...
1.51 or more	-	-	-	-	-	-	-	-	-	-	-	...
<b>BEDROOMS</b>												
None and 1	2 235	363	528	674	288	110	208	48	16	-	-	8 300
2	16 185	490	1 441	3 121	3 809	3 098	3 264	556	313	52	41	12 000
3	17 868	101	581	1 311	1 803	2 247	6 459	3 336	1 588	291	151	17 200
4 or more	5 819	120	100	276	592	512	1 211	1 090	1 237	385	296	20 500
<b>YEAR STRUCTURE BUILT</b>												
1969 to March 1970	449	-	6	5	21	9	154	115	89	29	21	21 300
1965 to 1968	1 650	4	14	5	19	60	450	440	372	177	109	23 100
1960 to 1964	3 471	20	10	54	127	236	1 446	937	466	106	69	19 500
1950 to 1959	10 306	52	196	518	1 072	1 629	3 840	1 757	906	222	114	17 200
1940 to 1949	6 065	40	227	608	1 131	1 297	1 712	591	344	92	23	14 500
1939 or earlier	19 954	712	2 172	4 178	4 205	2 825	3 329	1 205	867	313	148	11 700
<b>COMPLETE BATHROOMS</b>												
1 and 1 1/2	36 587	542	2 438	5 142	6 296	5 808	9 927	4 198	1 960	226	50	14 200
2 and 2 1/2	3 928	-	51	91	185	197	852	780	945	595	232	23 800
3 or more	565	5	-	6	7	20	33	111	177	206	43	43 500
None or also used by another household	683	214	144	131	65	44	51	27	-	7	-	7 200
<b>HOUSEHOLD COMPOSITION</b>												
<b>Two-or-more-person households</b>	<b>36 386</b>	<b>583</b>	<b>1 977</b>	<b>4 194</b>	<b>5 370</b>	<b>5 314</b>	<b>9 964</b>	<b>4 766</b>	<b>2 894</b>	<b>872</b>	<b>452</b>	<b>15 400</b>
Male head, wife present, no nonrelatives	31 654	443	1 472	3 536	4 557	4 555	8 888	4 283	2 699	800	421	15 700
Under 25 years	1 198	8	45	163	264	217	348	120	27	6	-	13 900
25 to 34 years	5 889	23	252	475	746	910	2 037	879	473	55	39	16 400
35 to 44 years	6 881	76	190	556	788	890	2 053	1 215	761	266	86	17 300
45 to 64 years	12 928	184	603	1 515	1 842	1 853	3 409	1 670	1 222	380	250	15 600
65 years and over	4 758	152	382	827	917	685	1 041	399	216	93	46	12 900
Other male head	1 105	40	121	119	181	130	277	148	55	16	18	14 300
Under 65 years	906	33	84	93	154	100	249	128	41	10	14	14 700
65 years and over	199	7	37	26	27	30	28	20	14	6	4	12 700
Female head	3 627	100	384	539	632	629	799	335	140	56	13	13 100
Under 65 years	2 813	80	274	408	494	470	633	289	112	40	13	13 300
65 years and over	814	20	110	131	138	159	166	46	28	16	-	12 600
<b>One-person households</b>	<b>5 509</b>	<b>245</b>	<b>648</b>	<b>1 174</b>	<b>1 205</b>	<b>742</b>	<b>967</b>	<b>279</b>	<b>150</b>	<b>67</b>	<b>32</b>	<b>11 400</b>
Under 65 years	2 457	67	238	524	513	329	510	160	72	17	27	11 900
65 years and over	3 052	178	410	650	692	413	457	119	78	50	5	11 000
<b>INCOME IN 1969</b>												
Less than \$2,000	3 102	223	480	744	720	361	351	91	82	40	10	10 400
\$2,000 to \$2,999	2 027	95	320	456	437	277	307	71	38	26	27	10 800
\$3,000 to \$3,999	1 892	81	254	376	356	321	353	106	35	10	-	11 700
\$4,000 to \$4,999	1 713	77	197	326	414	275	327	73	15	9	-	11 500
\$5,000 to \$5,999	1 715	90	155	343	417	248	279	96	67	20	-	11 600
\$6,000 to \$6,999	2 076	61	228	399	392	310	481	137	52	11	5	12 200
\$7,000 to \$7,999	7 788	98	570	1 255	1 404	1 371	2 143	659	218	64	6	13 500
\$8,000 to \$8,999	12 467	87	335	1 148	1 883	2 067	4 171	1 781	815	117	63	15 800
\$9,000 to \$9,999	7 141	16	86	290	509	764	2 222	1 695	1 181	289	89	19 300
\$10,000 to \$14,999	1 974	-	31	43	62	297	336	541	379	285	29	20 000
\$15,000 to \$24,999	1 974	-	31	43	62	297	336	541	379	285	29	20 000
\$25,000 or more	1 974	-	31	43	62	297	336	541	379	285	29	20 000
Median	\$10 300	\$4 200	\$5 400	\$7 100	\$8 200	\$9 700	\$11 500	\$13 600	\$16 700	\$21 900	\$31 700	...
<b>YEAR MOVED INTO UNIT</b>												
1969 to March 1970	3 871	44	225	388	488	581	1 022	558	339	146	80	16 100
1968	2 769	22	134	267	388	381	696	399	337	90	55	16 200
1967	2 591	59	121	282	378	348	657	348	319	44	35	15 700
1965 and 1966	4 228	56	230	427	601	479	1 205	657	326	170	77	16 400
1960 to 1964	8 635	147	378	805	1 193	1 098	2 637	1 324	737	234	82	16 300
1950 to 1959	10 855	127	643	1 399	1 702	1 756	2 998	1 207	691	216	116	14 700
1949 or earlier	8 814	306	902	1 802	1 796	1 413	1 635	545	267	105	43	11 900
<b>HEATING EQUIPMENT</b>												
Steam or hot water	1 356	-	68	138	174	111	291	159	237	99	79	18 300
Warm-air furnace	38 895	570	2 201	4 838	6 171	5 810	10 525	4 792	2 766	835	387	14 900
Built-in electric units	77	-	5	7	14	6	5	22	-	-	-	...
Floor, wall, or pipeless furnace	726	83	149	260	128	53	38	6	9	-	-	8 800
Other means	836	175	202	120	88	76	72	66	32	5	-	8 400
None	5	-	-	5	-	-	-	-	-	-	-	...
<b>AIR CONDITIONING</b>												
Room unit(s)	16 668	166	744	2 007	2 894	2 831	4 866	2 054				

Table B-2. Gross Rent of Renter Occupied Housing Units: 1970

[Data based on sample, see text. For minimum base for derived figures (percent, median, etc.) and meaning of symbols, see text]

Des Moines	Total	Less than \$50	\$50 to \$59	\$60 to \$69	\$70 to \$79	\$80 to \$99	\$100 to \$119	\$120 to \$149	\$150 to \$199	\$200 to \$299	\$300 or more	No cash rent	Median (dollars)
<b>Specified renter occupied<sup>1</sup></b>	<b>23 039</b>	<b>1 043</b>	<b>992</b>	<b>1 406</b>	<b>2 045</b>	<b>4 038</b>	<b>3 733</b>	<b>4 177</b>	<b>3 701</b>	<b>988</b>	<b>197</b>	<b>719</b>	<b>109</b>
<b>ROOMS</b>													
1 room	1 599	386	135	124	300	348	117	119	27	—	—	43	74
2 rooms	3 104	332	393	444	500	637	320	243	144	15	—	78	77
3 rooms	6 104	242	313	577	750	1 476	1 110	873	555	90	5	113	95
4 rooms	6 110	49	107	169	323	955	1 092	1 377	1 444	368	75	151	126
5 rooms	3 776	13	28	68	114	444	759	1 050	832	250	88	130	131
6 rooms	1 499	15	16	14	37	117	245	360	423	160	18	94	142
7 rooms	582	—	—	—	5	44	71	123	180	85	5	53	152
8 rooms or more	263	—	—	—	—	16	19	32	96	20	6	57	160
Median	3.6	1.9	2.4	2.7	2.8	3.2	3.8	4.1	4.3	4.6	4.7	4.3	...
<b>PERSONS</b>													
1 person	9 018	873	725	875	1 200	1 802	1 203	1 117	704	191	55	273	87
2 persons	6 570	100	177	355	513	1 139	1 100	1 277	1 293	268	125	221	116
3 persons	3 315	43	42	125	189	587	627	745	686	189	6	76	120
4 persons	2 116	27	18	40	85	236	405	478	540	198	6	83	133
5 persons	1 005	—	25	—	33	197	148	197	207	63	5	34	128
6 persons or more	1 015	—	5	—	25	126	201	267	269	79	—	32	134
Median	1.9	1.1	1.2	1.3	1.4	1.7	2.1	2.3	2.4	2.7	1.8	1.9	...
Units with roomers, boarders, or lodgers	999	13	19	22	54	124	175	154	304	113	—	21	136
<b>PLUMBING FACILITIES BY PERSONS PER ROOM</b>													
<b>With all plumbing facilities</b>	<b>21 362</b>	<b>515</b>	<b>710</b>	<b>1 116</b>	<b>1 726</b>	<b>3 939</b>	<b>3 670</b>	<b>4 162</b>	<b>3 696</b>	<b>988</b>	<b>197</b>	<b>643</b>	<b>113</b>
0.50 or less	10 869	333	428	685	979	1 917	1 686	1 938	1 815	513	180	395	111
0.51 to 1.00	9 106	166	260	393	623	1 772	1 693	1 912	1 659	390	17	221	115
1.01 to 1.50	1 098	5	12	28	85	189	244	250	193	76	—	16	118
1.51 or more	289	11	10	39	29	61	47	62	29	9	—	11	103
<b>Lacking some or all plumbing facilities</b>	<b>1 677</b>	<b>528</b>	<b>282</b>	<b>290</b>	<b>319</b>	<b>99</b>	<b>63</b>	<b>15</b>	<b>5</b>	<b>—</b>	<b>—</b>	<b>76</b>	<b>60</b>
0.50 or less	823	194	220	153	122	51	35	10	5	—	—	33	59
0.51 to 1.00	778	325	56	110	186	34	24	5	—	—	—	38	58
1.01 to 1.50	58	9	—	23	7	10	4	—	—	—	—	5	—
1.51 or more	18	—	6	4	4	4	—	—	—	—	—	—	—
<b>BEDROOMS</b>													
None	2 535	412	267	314	451	668	105	190	69	—	—	59	75
1	9 767	568	517	954	1 135	2 313	1 951	1 392	689	128	—	120	93
2	8 148	20	124	96	143	1 167	1 668	2 011	1 941	373	185	420	130
3 or more	2 445	—	17	58	29	96	376	562	777	313	—	217	149
<b>YEAR STRUCTURE BUILT</b>													
1969 to March 1970	1 078	37	70	39	32	57	64	178	468	100	16	17	156
1965 to 1968	1 750	25	—	14	10	138	94	284	779	312	62	32	169
1960 to 1964	1 179	—	—	17	45	107	189	231	351	120	70	39	146
1950 to 1959	2 286	25	11	20	191	156	421	743	485	85	33	116	131
1940 to 1949	1 704	22	27	45	66	258	345	530	282	84	5	40	124
1939 or earlier	15 042	934	874	1 271	1 701	3 322	2 620	2 211	1 336	287	11	475	94
<b>ELEVATOR IN STRUCTURE</b>													
4 floors or more	2 548	20	22	144	368	652	333	261	286	208	185	69	102
With elevator	1 872	20	—	78	302	394	201	195	243	185	185	69	111
Walk-up	676	—	22	66	66	258	132	66	43	23	—	—	94
1 to 3 floors	20 347	980	903	1 278	1 390	3 592	3 767	3 894	3 190	606	—	747	109
<b>COMPLETE BATHROOMS</b>													
1 and 1 1/2	20 393	434	653	1 062	1 782	3 830	3 526	4 068	3 617	858	41	522	112
2 or more	652	8	7	—	6	17	22	49	132	175	153	83	225
None or also used by another household	2 026	608	349	327	367	161	76	46	20	—	—	72	61
<b>INCOME IN 1969</b>													
Less than \$2,000	3 975	507	383	398	524	695	454	435	304	98	5	172	82
\$2,000 to \$2,999	2 172	180	158	145	329	427	336	244	202	38	5	108	89
\$3,000 to \$3,999	2 242	87	96	200	301	513	380	317	243	52	—	53	96
\$4,000 to \$4,999	2 198	68	126	187	259	514	375	341	228	55	—	45	97
\$5,000 to \$5,999	1 816	39	58	128	190	412	323	340	271	28	5	22	104
\$6,000 to \$6,999	1 836	62	63	116	126	338	356	383	286	46	6	54	110
\$7,000 to \$9,999	3 990	78	75	166	179	684	805	989	785	105	5	119	119
\$10,000 to \$14,999	3 363	16	29	55	120	375	543	900	867	314	29	115	136
\$15,000 to \$24,999	1 141	6	—	5	17	66	135	210	468	167	52	15	163
\$25,000 or more	306	—	4	6	—	14	26	18	47	85	90	16	235
Median	\$5 500	\$2 100	\$2 700	\$3 800	\$3 600	\$4 700	\$6 000	\$7 100	\$8 200	\$11 100	\$23 400	\$4 600	...
<b>YEAR MOVED INTO UNIT</b>													
1969 to March 1970	11 881	505	418	670	1 120	1 999	1 914	2 044	2 340	602	46	223	112
1968	3 217	115	87	138	163	618	560	735	536	156	49	60	116
1967	1 776	53	35	53	78	326	279	377	286	98	13	78	115
1965 and 1966	2 184	100	185	153	175	361	334	458	255	68	27	68	105
1960 to 1964	2 227	139	186	193	242	371	284	353	239	62	44	114	95
1950 to 1959	1 222	48	58	163	192	255	199	140	64	28	15	60	90
1949 or earlier	564	90	40	19	85	78	54	56	49	19	—	74	82
<b>GROSS RENT AS PERCENTAGE OF INCOME</b>													
Less than 10 percent	1 413	203	109	143	162	283	245	117	82	46	23	...	86
10 to 14 percent	3 581	133	188	283	248	746	665	684	497	114	23	...	106
15 to 19 percent	3 719	76	109	236	296	654	666	883	622	150	27	...	115
20 to 24 percent	3 028	101	88	139	310	516	507	578	587	154	48	...	114
25 to 34 percent	3 493	196	161	166	292	625	536	660	668	173	16	...	111
35 percent or more	6 784	308	311	424	709	1 177	1 052	1 203	1 194	346	60	...	109
Not computed	1 021	26	26	15	28	37	62	52	51	5	—	719	106
<b>AIR CONDITIONING</b>													
Room unit(s)	6 922	120	75	191	302	962	1 003	1 815	1 830	382	6	236	131
Central system	1 501	7	7	47	8	71	49	156	492	400	181	83	187
None	14 648	923	927	1 151	1 845	2 975	2 572	2 192	1 447	251	7	358	95

<sup>1</sup>Excludes one-family homes on 10 acres or more.

Table B-3. Income in 1969 of Families and Primary Individuals in Owner and Renter Occupied Housing Units: 1970

[Data based on sample, see text. For minimum base for derived figures (percent, median, etc.) and meaning of symbols, see text]

Des Moines	Total	Less than \$2,000	\$2,000 to \$2,999	\$3,000 to \$3,999	\$4,000 to \$4,999	\$5,000 to \$5,999	\$6,000 to \$6,999	\$7,000 to \$9,999	\$10,000 to \$14,999	\$15,000 to \$24,999	\$25,000 or more	Median (dollars)
<b>Owner occupied housing units</b>	45 359	3 573	2 328	2 117	1 955	1 952	2 347	8 373	13 121	7 549	2 044	10 000
<b>ROOMS</b>												
1 and 2 rooms	271	59	27	42	21	8	20	40	39	15	-	4 400
3 rooms	1 287	339	164	130	87	71	109	250	86	36	15	4 100
4 rooms	8 790	1 020	667	548	571	577	619	1 834	2 187	672	95	7 600
5 rooms	16 625	1 316	840	801	694	716	891	3 411	5 264	2 349	343	9 700
6 rooms	9 793	493	381	416	387	344	457	1 818	3 179	1 909	409	10 900
7 rooms or more	8 593	346	249	180	195	236	251	1 020	2 366	2 568	1 182	13 800
<b>PERSONS</b>												
1 person	6 546	2 433	981	678	525	339	372	679	354	115	70	2 900
2 persons	14 549	766	1 037	1 100	882	883	955	2 664	3 638	1 944	680	8 900
3 and 4 persons	15 092	266	252	241	403	505	655	3 168	5 531	3 381	690	11 900
5 persons	4 845	66	35	57	111	187	111	1 012	1 860	1 132	316	12 400
6 persons or more	4 327	42	23	41	76	114	178	850	1 738	977	288	12 400
Units with roomers, boarders, or lodgers	1 024	152	110	88	64	86	69	165	180	72	38	6 200
<b>BEDROOMS</b>												
Less than 3	20 894	2 624	1 477	1 545	1 424	1 402	1 387	4 494	4 559	1 750	232	7 400
3	18 469	665	533	655	771	578	893	3 365	6 309	3 742	958	11 400
4 or more	5 972	277	120	121	94	198	155	852	1 721	1 566	868	13 400
<b>YEAR STRUCTURE BUILT</b>												
1969 to March 1970	569	19	-	16	21	19	49	133	193	91	28	10 700
1960 to 1968	5 754	121	61	78	142	137	224	979	2 129	1 460	423	12 700
1950 to 1959	10 861	451	282	290	250	360	429	2 061	3 849	2 311	578	11 700
1949 or earlier	28 175	2 982	1 985	1 733	1 542	1 436	1 645	5 200	6 950	3 687	1 015	8 600
<b>YEAR MOVED INTO UNIT</b>												
1969 to March 1970	4 393	228	82	119	166	201	324	1 093	1 379	639	162	10 000
1968	3 017	72	60	63	108	122	114	771	1 037	525	145	11 000
1960 to 1967	16 626	782	595	518	445	559	816	3 288	5 540	3 280	803	11 200
1959 or earlier	21 321	2 498	1 644	1 389	1 129	980	1 041	3 073	5 359	3 265	943	8 900
<b>SELECTED CHARACTERISTICS</b>												
Automatic clothes washing machine	35 349	1 541	1 154	1 366	1 556	1 361	1 860	7 021	10 981	6 579	1 930	10 800
Clothes dryer	29 880	820	697	887	1 107	1 082	1 484	5 939	9 865	6 093	1 906	11 500
Dishwasher	8 652	191	156	100	95	122	153	1 175	2 760	2 431	1 469	14 200
Home food freezer	12 537	554	384	461	520	320	597	2 344	3 957	2 358	1 042	11 400
Owned second home	1 835	55	36	40	103	101	128	192	324	324	200	12 000
With air conditioning	27 040	1 306	922	990	939	952	1 163	4 588	8 491	5 829	1 860	11 600
Room unit(s)	18 198	1 034	710	781	758	877	735	3 608	5 881	3 161	653	10 500
Central system	8 842	272	212	209	181	217	286	980	2 610	2 668	1 207	14 000
Automobiles available:												
1	20 722	1 435	1 288	1 303	1 172	1 253	1 459	4 764	5 556	2 137	355	8 500
2	16 564	192	149	241	274	410	508	2 754	6 340	4 417	1 279	13 000
3 or more	3 243	37	22	-	39	32	48	355	1 192	1 108	410	14 600
<b>Renter occupied housing units</b>	23 136	3 991	2 172	2 247	2 206	1 828	1 836	4 012	3 381	1 157	306	5 500
<b>ROOMS</b>												
1 room	1 603	517	260	204	102	149	121	131	81	23	15	3 100
2 rooms	3 106	855	347	423	252	219	252	373	181	37	11	3 800
3 rooms	6 113	1 263	633	688	765	474	518	909	600	210	53	4 600
4 rooms	6 115	811	492	507	477	493	489	1 224	1 199	346	77	6 600
5 rooms	3 802	335	301	294	290	290	308	838	761	290	95	7 300
6 rooms or more	2 397	210	139	131	164	170	181	537	559	251	55	8 100
<b>PERSONS</b>												
1 person	9 029	2 689	1 128	1 046	1 038	709	591	944	635	159	90	3 700
2 persons	6 604	773	543	576	644	546	584	1 205	1 068	521	144	6 400
3 and 4 persons	5 476	419	421	424	388	386	469	1 362	1 230	341	36	7 500
5 persons	1 012	82	42	119	65	69	91	221	238	69	16	7 500
6 persons or more	1 015	28	38	82	71	118	101	280	210	67	20	7 700
Units with roomers, boarders, or lodgers	999	327	120	146	102	75	56	81	73	13	6	3 400
<b>BEDROOMS</b>												
None	2 535	728	294	394	358	231	151	244	63	52	20	3 600
1	9 767	2 313	1 228	1 194	1 096	745	671	1 266	826	289	103	4 100
2	8 215	981	823	635	588	721	589	1 853	1 503	475	47	6 600
3 or more	2 532	150	62	128	207	167	153	764	512	293	96	8 600
<b>YEAR STRUCTURE BUILT</b>												
1969 to March 1970	1 078	186	125	89	51	77	46	228	158	87	31	6 200
1960 to 1968	2 932	325	205	224	124	182	205	491	675	382	119	8 200
1950 to 1959	2 301	239	121	173	185	225	137	501	543	141	36	7 400
1949 or earlier	16 825	3 241	1 721	1 761	1 846	1 344	1 448	2 792	2 005	547	120	4 900
<b>YEAR MOVED INTO UNIT</b>												
1969 to March 1970	11 916	1 973	1 125	1 134	1 270	1 042	1 019	2 111	1 645	493	104	5 400
1968	3 217	417	214	231	200	295	672	626	626	212	71	6 900
1960 to 1967	6 208	1 045	593	528	552	458	505	933	1 064	404	126	5 800
1959 or earlier	1 805	539	174	201	141	121	113	241	171	89	15	3 900
<b>GROSS RENT AS PERCENTAGE OF INCOME</b>												
Specified renter occupied <sup>1</sup>	23 039	3 975	2 172	2 242	2 198	1 816	1 836	3 990	3 363	1 141	306	5 500
Less than 15 percent	4 994	-	22	45	136	181	338	1 269	1 791	966	246	11 400
15 to 19 percent	3 719	5	29	107	304	440	483	1 255	973	106	17	8 200
20 to 24 percent	3 028	28	116	294	510	424	404	839	353	33	27	6 400
25 to 34 percent	3 493	186	396	714	680	476	454	469	108	10	-	4 700
35 percent or more	6 784	3 282	1 501	1 029	523	273	39	23	11	11	-	2 100
Not computed	1 021	474	108	53	45	22	54	119	115	15	16	2 300
<b>SELECTED CHARACTERISTICS</b>												
Automatic clothes washing machine	5 990	407	390	358	477	398	468	1 535	1 330	522	105	8 000
Clothes dryer	4 821	344	297	260	402	335	368	1 180	1 113	438	84	8 000
Dishwasher	1 244	115	64	17	46	128	128	274	179	306	67	9 200
Home food freezer	1 293	159	41	23	104	48	145	438	230	105	-	7 900
Owned second home	712	90	40	100	42	89	-	128	45	134	44	5 900
With air conditioning	8 455	965	447	635	623	638	729	1 568	1 824	775	251	7 400
Room unit(s)	6 943	772	391	554	556	550	648	1 371	1 489	508	104	7 000
Central system	1 512	193	56	81	67	88	81	197	335	267	147	9 900
Automobiles available:												
1	12 339	1 311	848	1 066	1 249	1 077	1 326	2 608	2 136	541	177	6 500
2	4 024	292	113	168	218	261	316	942	1 105	506	103	9 100
3 or more	581	84	46	19	41	44	31	94	104	89	29	7 800

<sup>1</sup>Excludes one-family homes on 10 acres or more.

Table B-4. Plumbing Facilities by Persons Per Room for Owner and Renter Occupied Housing Units: 1970

[Data based on sample, see text. For minimum base for derived figures (percent, median, etc.) and meaning of symbols, see text]

Des Moines	With all plumbing facilities					Lacking some or all plumbing facilities					
	Total	0.50 or less	0.51 to 1.00	1.01 to 1.50	1.51 or more	Total	0.50 or less	0.51 to 1.00	1.01 to 1.50	1.51 or more	
<b>Owner occupied housing units</b> .....	<b>45 359</b>	<b>44 825</b>	<b>24 195</b>	<b>18 160</b>	<b>2 125</b>	<b>345</b>	<b>534</b>	<b>385</b>	<b>117</b>	<b>32</b>	<b>-</b>
<b>PERSONS</b>											
1 person .....	6 546	6 292	6 286	6	-	-	254	240	14	-	-
2 persons .....	14 549	14 381	13 832	4 527	-	22	168	135	33	-	-
3 persons .....	7 859	7 827	3 047	4 756	10	14	32	10	22	-	-
4 persons .....	7 233	7 194	779	6 369	38	8	39	-	34	5	-
5 persons .....	4 845	4 832	251	4 217	344	20	13	-	9	4	-
6 persons or more .....	4 327	4 299	-	2 285	1 733	281	28	-	5	23	-
Median .....	2.7	2.7	1.9	4.1	6.3	7.5	1.6	1.3	3.0	...	-
Units with roomers, boarders, or lodgers .....	1 024	1 020	476	496	39	9	4	4	-	-	-
<b>YEAR STRUCTURE BUILT</b>											
1969 to March 1970 .....	576	576	202	341	27	6	-	-	-	-	-
1965 to 1968 .....	1 827	1 821	679	1 076	47	19	6	-	6	-	-
1960 to 1964 .....	3 898	3 891	1 303	2 289	253	46	7	-	-	-	-
1950 to 1959 .....	10 794	10 753	4 663	5 377	661	52	41	26	15	-	-
1940 to 1949 .....	6 260	6 214	3 580	2 230	344	60	46	38	-	8	-
1939 or earlier .....	22 002	21 604	13 804	6 881	790	129	398	264	109	25	-
<b>INCOME IN 1969</b>											
Less than \$2,000 .....	3 573	3 369	3 002	321	41	5	204	186	18	-	-
\$2,000 to \$2,999 .....	2 328	2 269	1 957	285	22	5	59	49	10	-	-
\$3,000 to \$3,999 .....	2 117	2 089	1 744	303	21	21	28	23	5	-	-
\$4,000 to \$4,999 .....	1 955	1 904	1 446	392	57	9	51	26	21	4	-
\$5,000 to \$5,999 .....	1 952	1 915	1 251	542	98	24	37	28	4	5	-
\$6,000 to \$6,999 .....	2 347	2 326	1 395	793	115	23	21	11	6	4	-
\$7,000 to \$9,999 .....	8 373	8 302	3 651	3 996	574	81	71	42	15	14	-
\$10,000 to \$14,999 .....	13 121	13 078	5 217	6 863	849	149	43	5	38	-	-
\$15,000 to \$24,999 .....	7 549	7 535	3 300	3 906	305	24	14	9	-	5	-
\$25,000 or more .....	2 044	2 038	1 232	759	43	4	6	4	-	-	-
Median .....	\$10 000	\$10 100	\$8 100	\$11 800	\$10 800	\$10 200	\$3 100	\$2 100	\$6 100	...	-
<b>VALUE-INCOME RATIO</b>											
Specified owner occupied <sup>1</sup> .....	41 895	41 490	22 024	17 094	2 032	340	405	282	96	27	-
Less than 1.5 .....	19 248	19 103	8 197	9 424	1 301	181	145	42	56	27	-
1.5 to 1.9 .....	8 216	8 165	3 742	3 899	425	99	51	36	15	-	-
2.0 to 2.4 .....	4 209	4 190	2 188	1 814	150	38	19	19	-	-	-
2.5 to 2.9 .....	2 395	2 351	1 477	794	75	5	44	34	10	-	-
3.0 to 3.9 .....	2 455	2 420	1 816	563	34	7	35	30	5	-	-
4.0 or more .....	5 146	5 045	4 465	538	32	10	101	96	5	-	-
Not computed .....	226	216	139	62	15	-	10	5	5	-	-
<b>HEATING EQUIPMENT</b>											
Steam or hot water .....	1 606	1 606	1 023	515	43	25	-	-	-	-	-
Warm-air furnace .....	41 826	41 514	22 235	17 035	1 937	307	312	233	57	22	-
Built-in electric units .....	93	93	39	45	5	4	-	-	-	-	-
Floor, wall, or pipeless furnace .....	846	790	470	261	59	-	56	46	5	5	-
Other means .....	983	817	428	304	76	9	166	106	55	5	-
None .....	5	5	-	-	5	-	-	-	-	-	-
<b>Renter occupied housing units</b> .....	<b>23 136</b>	<b>21 454</b>	<b>10 922</b>	<b>9 137</b>	<b>1 098</b>	<b>297</b>	<b>1 682</b>	<b>823</b>	<b>783</b>	<b>58</b>	<b>18</b>
<b>PERSONS</b>											
1 person .....	9 029	7 732	6 762	970	-	-	1 297	792	505	-	-
2 persons .....	6 604	6 376	3 707	2 551	-	118	228	31	191	-	6
3 persons .....	3 337	3 235	392	2 768	75	-	102	-	73	29	-
4 persons .....	2 139	2 112	46	1 871	171	24	27	-	10	17	-
5 persons .....	1 012	1 012	15	706	248	43	-	-	-	-	-
6 persons or more .....	1 015	987	-	271	604	112	28	-	4	12	12
Median .....	1.9	2.0	1.3	2.9	5.7	4.7	1.1	1.0	1.3	...	...
Units with roomers, boarders, or lodgers .....	999	977	264	620	62	31	22	-	22	-	-
<b>YEAR STRUCTURE BUILT</b>											
1969 to March 1970 .....	1 030	1 007	494	468	32	13	23	14	9	-	-
1965 to 1968 .....	1 721	1 721	1 008	642	50	21	-	-	-	-	-
1960 to 1964 .....	1 228	1 228	549	614	44	21	-	-	-	-	-
1950 to 1959 .....	2 306	2 140	1 054	941	111	34	166	8	158	-	-
1940 to 1949 .....	1 744	1 727	698	831	156	42	17	-	7	4	6
1939 or earlier .....	15 117	13 554	7 106	5 602	688	158	1 563	840	634	70	19
<b>INCOME IN 1969</b>											
Less than \$2,000 .....	3 991	3 312	2 166	1 051	58	37	679	396	267	16	4
\$2,000 to \$2,999 .....	2 172	1 973	1 121	765	55	32	199	72	118	5	-
\$3,000 to \$3,999 .....	2 247	2 027	1 071	823	103	30	220	94	117	9	-
\$4,000 to \$4,999 .....	2 206	2 008	1 152	772	75	9	198	118	59	13	8
\$5,000 to \$5,999 .....	1 828	1 728	878	690	112	48	100	27	68	5	-
\$6,000 to \$6,999 .....	1 836	1 757	803	815	109	30	79	15	64	-	-
\$7,000 to \$9,999 .....	4 012	3 872	1 517	2 027	280	48	140	66	58	10	6
\$10,000 to \$14,999 .....	3 381	3 334	1 424	1 646	239	25	47	31	16	-	-
\$15,000 to \$24,999 .....	1 157	1 152	577	496	51	28	5	5	5	-	-
\$25,000 or more .....	306	291	213	52	16	10	15	4	11	-	-
Median .....	\$5 500	\$5 800	\$5 000	\$6 600	\$7 400	\$5 800	\$2 800	\$2 200	\$3 100	...	...
<b>GROSS RENT AS PERCENTAGE OF INCOME</b>											
Specified renter occupied <sup>2</sup> .....	23 039	21 362	10 869	9 166	1 098	289	1 677	823	778	58	18
Less than 10 percent .....	1 413	1 215	506	594	91	24	198	90	97	5	6
10 to 14 percent .....	3 581	3 400	1 498	1 632	211	59	181	63	118	-	-
15 to 19 percent .....	3 719	3 504	1 615	1 606	217	66	215	73	104	14	4
20 to 24 percent .....	3 028	2 867	1 412	1 247	193	15	161	74	78	5	4
25 to 34 percent .....	3 493	3 274	1 679	1 395	168	32	219	106	104	9	4
35 percent or more .....	6 784	6 189	3 611	2 298	198	82	595	343	235	13	4
Not computed .....	1 021	913	548	334	20	11	108	54	42	12	-
<b>HEATING EQUIPMENT</b>											
Steam or hot water .....	6 902	6 399	3 795	2 443	93	68	503	154	339	-	10
Warm-air furnace .....	15 036	14 067	6 658	6 253	945	211	969	557	371	41	-
Built-in electric units .....	127	127	47	80	-	-	-	-	-	-	-
Floor, wall, or pipeless furnace .....	477	435	217	189	25	4	42	16	21	5	-
Other means .....	594	426	205	172	35	14	168	96	52	12	8
None .....	-	-	-	-	-	-	-	-	-	-	-

<sup>1</sup>Limited to one-family homes on less than 10 acres and no business on property. <sup>2</sup>Excludes one-family homes on 10 acres or more.

Table B-5. Rooms in Owner and Renter Occupied Housing Units: 1970

[Data based on sample, see text. For minimum base for derived figures (percent, median, etc.) and meaning of symbols, see text]

Des Moines	Total	1 room	2 rooms	3 rooms	4 rooms	5 rooms	6 rooms	7 rooms	8 rooms or more	Median
<b>Owner occupied housing units</b> .....	45 359	80	191	1 287	8 790	16 625	9 793	4 692	3 901	5.2
Units with 1 or more bathrooms and complete kitchen facilities for exclusive use, and direct access .....	44 486	66	116	1 154	8 645	16 183	9 836	4 526	3 960	5.3
<b>PERSONS</b>										
1 person .....	6 546	20	104	611	1 856	2 436	962	350	207	4.8
2 persons .....	14 549	22	73	487	3 772	5 517	2 915	1 071	692	5.0
3 persons .....	7 859	14	10	112	1 570	3 096	1 656	806	395	5.2
4 persons .....	7 233	4	4	43	975	2 850	1 719	859	779	5.4
5 persons .....	4 845	—	—	20	348	1 596	1 412	789	680	5.8
6 persons or more .....	4 327	20	—	14	269	1 130	1 129	817	948	6.1
Median .....	2.7	...	1.4	1.6	2.2	2.6	3.1	3.6	4.1	...
<b>PLUMBING FACILITIES BY PERSONS PER ROOM</b>										
With all plumbing facilities .....	44 825	66	142	1 216	8 658	16 449	9 718	4 686	3 890	5.2
0.50 or less .....	24 195	—	68	565	5 523	7 828	5 477	2 221	2 513	5.3
0.51 to 1.00 .....	18 160	6	60	579	2 526	7 501	3 855	2 319	1 314	5.3
1.01 to 1.50 .....	2 125	—	10	38	522	992	366	134	63	5.0
1.51 or more .....	345	60	4	34	87	128	20	12	—	4.4
Lacking some or all plumbing facilities .....	534	14	49	71	132	176	75	6	11	4.3
0.50 or less .....	385	—	36	46	105	125	56	6	11	4.5
0.51 to 1.00 .....	117	14	13	20	19	41	10	—	—	4.1
1.01 to 1.50 .....	32	—	—	5	8	10	9	—	—	...
1.51 or more .....	—	—	—	—	—	—	—	—	—	...
<b>BEDROOMS</b>										
None and 1 .....	3 062	67	328	1 148	1 010	359	108	42	—	3.5
2 .....	17 832	—	—	254	7 415	8 147	1 618	320	78	4.7
3 .....	18 469	—	—	—	76	8 097	6 914	2 417	965	5.7
4 or more .....	5 972	—	—	—	—	395	864	2 188	2 525	7.3
<b>YEAR STRUCTURE BUILT</b>										
1969 to March 1970 .....	569	—	—	19	89	250	—	64	77	5.2
1960 to 1968 .....	5 754	11	—	65	612	2 492	1 101	748	725	5.4
1950 to 1959 .....	10 861	4	72	243	2 359	4 572	2 287	810	514	5.1
1949 or earlier .....	28 175	65	119	960	5 730	9 311	6 335	3 070	2 585	5.3
<b>COMPLETE BATHROOMS</b>										
1 and 1 1/2 .....	39 687	66	116	1 134	8 533	15 469	8 749	3 496	2 124	5.1
2 or more .....	4 819	—	—	20	118	714	1 087	1 030	1 850	7.0
None or also used by another household .....	851	18	43	129	182	327	109	23	20	4.7
<b>VALUE-INCOME RATIO</b>										
Specified owner occupied <sup>1</sup> .....	41 895	76	89	832	7 632	15 628	9 382	4 496	3 760	5.3
Less than 1.5 .....	19 248	25	36	288	3 798	7 119	4 287	2 118	1 577	5.3
1.5 to 1.9 .....	8 216	19	15	136	1 181	3 144	1 959	919	843	5.4
2.0 to 2.9 .....	6 604	20	16	135	977	2 527	1 447	776	706	5.4
3.0 or more .....	7 601	12	17	247	1 627	2 745	1 666	673	614	5.2
Not computed .....	226	—	5	26	49	93	23	10	20	4.9
<b>Renter occupied housing units</b> .....	23 136	1 603	3 106	6 113	6 115	3 802	1 523	611	263	3.6
Units with 1 or more bathrooms and complete kitchen facilities for exclusive use, and direct access .....	20 817	790	2 498	5 497	6 022	3 611	1 600	524	275	3.8
<b>PERSONS</b>										
1 person .....	9 029	1 475	2 306	3 161	1 432	497	126	17	15	2.7
2 persons .....	6 604	124	662	2 080	2 221	1 066	272	116	63	3.7
3 persons .....	3 337	—	104	615	1 298	928	292	83	17	4.2
4 persons .....	2 139	—	24	188	785	630	320	146	46	4.6
5 persons .....	1 012	—	—	43	248	347	204	122	48	5.1
6 persons or more .....	1 015	4	10	26	131	334	309	127	74	5.5
Median .....	1.9	1.0	1.2	1.5	2.2	2.9	3.7	4.1	4.3	...
<b>PLUMBING FACILITIES BY PERSONS PER ROOM</b>										
With all plumbing facilities .....	21 454	1 092	2 471	5 705	6 050	3 758	1 504	611	263	3.7
0.50 or less .....	10 922	—	1 799	2 910	3 621	1 535	685	216	156	3.7
0.51 to 1.00 .....	9 137	970	567	2 563	2 053	1 893	666	331	94	3.7
1.01 to 1.50 .....	1 098	—	75	171	339	309	143	53	8	4.4
1.51 or more .....	297	122	30	61	37	21	10	11	5	2.4
Lacking some or all plumbing facilities .....	1 682	511	635	408	65	44	19	—	—	2.0
0.50 or less .....	823	—	507	251	32	28	5	—	—	2.3
0.51 to 1.00 .....	783	505	95	132	30	12	9	—	—	1.3
1.01 to 1.50 .....	58	—	29	17	3	4	5	—	—	...
1.51 or more .....	18	6	4	8	—	—	—	—	—	...
<b>BEDROOMS</b>										
None .....	2 535	1 696	708	131	—	—	—	—	—	1.2
1 .....	9 767	—	1 958	5 981	1 667	116	23	22	—	3.0
2 .....	8 215	—	—	406	4 244	3 025	368	148	24	4.4
3 or more .....	2 532	—	—	—	23	943	727	616	223	5.9
<b>YEAR STRUCTURE BUILT</b>										
1969 to March 1970 .....	1 078	68	137	184	529	134	21	—	5	3.8
1960 to 1968 .....	2 932	184	310	675	1 113	497	108	33	12	3.8
1950 to 1959 .....	2 301	221	133	416	813	453	181	58	26	4.0
1949 or earlier .....	16 825	1 130	2 526	4 838	3 660	2 718	1 213	520	220	3.5
<b>COMPLETE BATHROOMS</b>										
1 and 1 1/2 .....	20 462	1 005	2 545	5 492	5 913	3 359	1 492	449	207	3.7
2 or more .....	658	7	6	13	116	259	108	81	68	5.2
None or also used by another household .....	2 026	549	708	525	139	64	28	6	7	2.2
<b>GROSS RENT AS PERCENTAGE OF INCOME</b>										
Specified renter occupied <sup>2</sup> .....	23 039	1 599	3 106	6 104	6 110	3 776	1 499	582	263	3.6
Less than 10 percent .....	1 413	137	215	444	263	209	95	35	15	3.3
10 to 14 percent .....	3 581	199	468	929	985	638	266	76	20	3.7
15 to 19 percent .....	3 719	202	410	903	1 106	667	303	71	57	3.8
20 to 24 percent .....	3 028	130	389	758	856	575	169	97	54	3.8
25 to 34 percent .....	3 493	265	433	962	950	535	208	126	14	3.6
35 percent or more .....	6 784	613	1 065	1 884	1 729	991	344	112	46	3.4
Not computed .....	1 021	53	126	224	221	161	114	65	57	4.0

<sup>1</sup>Limited to one-family homes on less than 10 acres and no business on property.

<sup>2</sup>Excludes one-family homes on 10 acres or more.

Table B-6. Units in Structure for Owner and Renter Occupied Housing Units: 1970

[Data based on sample, see text. For minimum base for derived figures (percent, median, etc.) and meaning of symbols, see text]

Des Moines	Owner occupied				Renter occupied							
	Total	1 unit	2 units or more	Mobile home or trailer	Total	1 unit	2 units	3 and 4 units	5 to 9 units	10 to 19 units	20 units or more	Mobile home or trailer
All occupied housing units	45 359	42 580	2 049	730	23 136	6 680	3 222	3 070	3 796	2 810	3 474	84
<b>ROOMS</b>												
1 room	80	76	-	4	1 603	30	30	124	369	295	755	-
2 rooms	191	89	53	49	3 106	86	225	610	920	386	870	9
3 rooms	1 287	860	263	164	6 113	545	914	1 266	1 437	965	947	39
4 rooms	8 790	7 706	695	389	6 115	1 896	1 215	716	707	960	590	31
5 rooms	16 625	15 858	648	119	3 802	2 234	593	286	272	156	261	-
6 rooms	9 793	9 569	224	-	1 523	1 127	186	58	68	39	40	5
7 rooms	4 692	4 585	102	5	611	540	50	-	12	4	5	-
8 rooms or more	3 901	3 837	64	-	263	222	9	10	11	5	6	-
Median	5.2	5.3	4.5	3.9	3.6	4.9	3.9	3.1	2.9	3.3	2.6	...
<b>PLUMBING FACILITIES BY PERSONS PER ROOM</b>												
With all plumbing facilities	44 825	42 155	1 954	716	21 454	6 488	3 137	2 659	3 166	2 625	3 301	78
0.50 or less	24 195	22 392	1 342	461	10 922	2 373	1 614	1 629	1 794	1 467	2 021	24
0.51 to 1.00	18 160	17 375	550	235	9 137	3 329	1 328	910	1 249	1 057	1 215	49
1.01 to 1.50	2 125	2 048	57	20	1 098	672	162	79	89	63	28	5
1.51 or more	345	340	5	-	297	114	33	41	34	38	37	-
Lacking some or all plumbing facilities	534	425	95	14	1 682	192	85	411	630	185	173	6
0.50 or less	385	292	83	10	823	103	48	238	353	65	10	6
0.51 to 1.00	117	101	12	4	783	73	26	153	261	107	163	-
1.01 to 1.50	32	32	-	-	58	8	11	20	10	9	-	-
1.51 or more	-	-	-	-	18	8	-	-	6	4	-	-
<b>BEDROOMS</b>												
None	162	107	55	-	2 535	48	60	304	590	472	1 061	-
1	2 900	2 167	561	172	9 767	863	1 490	2 128	2 001	1 474	1 759	52
2	17 832	16 454	980	398	8 215	3 734	1 402	795	805	746	645	88
3	18 469	18 052	313	104	1 953	1 521	139	23	58	69	143	-
4 or more	5 972	5 928	44	-	579	547	16	-	16	-	-	-
<b>YEAR STRUCTURE BUILT</b>												
1969 to March 1970	569	459	27	83	1 078	50	129	30	177	493	199	-
1965 to 1968	1 944	1 671	78	195	1 750	96	199	29	145	413	858	10
1960 to 1964	3 810	3 524	95	191	1 182	276	164	21	213	162	321	25
1950 to 1959	10 861	10 392	233	236	2 301	994	297	232	201	91	446	40
1940 to 1949	6 253	6 153	95	5	1 713	1 016	307	82	165	94	40	9
1939 or earlier	21 922	20 381	1 521	20	15 112	4 248	2 126	2 676	2 895	1 557	1 610	-
<b>INCOME IN 1969</b>												
Less than \$2,000	3 573	3 157	301	115	3 991	619	414	744	1 049	528	633	4
\$2,000 to \$2,999	2 328	2 053	230	45	2 172	497	306	358	338	294	370	9
\$3,000 to \$3,999	2 117	1 902	166	49	2 247	485	315	303	436	321	378	11
\$4,000 to \$4,999	1 955	1 754	128	73	2 206	540	332	412	380	236	291	15
\$5,000 to \$5,999	1 952	1 762	126	64	1 828	453	227	220	318	228	367	15
\$6,000 to \$6,999	2 347	2 121	162	64	1 836	641	215	231	316	207	222	4
\$7,000 to \$9,999	8 373	7 924	293	156	4 012	1 518	652	455	495	448	423	21
\$10,000 to \$14,999	13 121	12 654	361	106	3 381	1 470	531	273	380	335	387	5
\$15,000 to \$24,999	7 549	7 252	249	48	1 157	412	200	54	61	174	256	-
\$25,000 or more	2 044	2 001	33	10	306	47	30	20	23	39	147	-
Median	\$10 000	\$10 200	\$6 500	\$6 300	\$5 500	\$7 200	\$6 100	\$4 300	\$4 200	\$5 100	\$5 200	...
<b>YEAR MOVED INTO UNIT</b>												
1969 to March 1970	4 393	3 972	181	240	11 916	3 030	1 945	1 548	2 146	1 614	1 583	50
1968	3 017	2 802	124	91	3 217	1 051	476	317	427	367	571	8
1967	2 810	2 610	118	82	1 782	667	234	238	224	143	276	-
1965 and 1966	4 516	4 254	172	90	2 184	814	234	342	323	156	315	-
1960 to 1964	9 300	8 773	388	139	2 242	643	240	279	362	293	420	5
1950 to 1959	11 122	10 545	473	104	1 206	245	127	199	253	190	192	-
1949 or earlier	10 199	9 529	657	13	599	180	65	70	128	62	94	-
<b>GROSS RENT</b>												
Specified renter occupied <sup>1</sup>	...	...	...	...	23 039	6 583	3 222	3 070	3 796	2 810	3 474	84
Less than \$50	...	...	...	...	1 043	86	99	232	387	196	24	19
\$50 to \$59	...	...	...	...	992	90	76	287	354	84	96	5
\$60 to \$69	...	...	...	...	1 406	133	149	388	425	168	137	6
\$70 to \$79	...	...	...	...	2 045	280	280	406	413	202	459	6
\$80 to \$99	...	...	...	...	4 038	887	621	573	764	462	726	5
\$100 to \$119	...	...	...	...	3 733	1 396	566	495	593	326	333	24
\$120 to \$149	...	...	...	...	4 177	1 655	608	480	435	468	515	16
\$150 to \$199	...	...	...	...	3 701	1 338	578	115	324	650	696	-
\$200 to \$299	...	...	...	...	988	325	192	34	41	162	234	-
\$300 or more	...	...	...	...	197	10	-	-	-	17	170	-
No cash rent	...	...	...	...	719	383	53	60	60	75	84	4
Median	...	...	...	...	\$109	\$124	\$113	\$85	\$88	\$116	\$115	...
<b>HEATING EQUIPMENT</b>												
Steam or hot water	1 606	1 368	238	-	6 902	196	238	790	1 388	1 734	2 556	-
Warm-air furnace	41 826	39 518	1 759	549	15 036	5 778	2 818	2 182	2 282	1 032	900	44
Built-in electric units	93	82	-	11	127	37	21	11	28	25	-	5
Floor, wall, or pipeless furnace	846	736	38	72	477	301	68	55	37	-	6	10
Other means	983	871	14	98	594	368	77	32	61	19	12	25
None	5	5	-	-	-	-	-	-	-	-	-	-
<b>AIR CONDITIONING</b>												
Room unit(s)	18 198	16 934	872	392	6 943	1 863	862	564	971	1 256	1 421	6
Central system	8 842	8 476	282	84	1 512	231	363	84	61	273	500	-
None	18 317	17 075	959	283	14 691	4 536	2 096	2 345	2 831	1 296	1 530	57
<b>AUTOMOBILES AVAILABLE</b>												
1	20 722	19 200	1 103	419	12 339	3 657	1 711	1 657	2 068	1 623	1 580	43
2	16 564	15 940	440	184	4 024	1 701	843	280	464	323	401	12
3 or more	3 243	3 153	76	14	581	248	95	59	56	86	37	-
None	4 828	4 192	494	142	6 202	1 024	672	997	1 275	793	1 433	8

<sup>1</sup>Excludes one-family homes on 10 acres or more.

Table B-7. Household Composition for Owner and Renter Occupied Housing Units: 1970

[Data based on sample, see text. For minimum base for derived figures (percent, median, etc.) and meaning of symbols, see text]

Des Moines	Total	Two-or-more-person households								One-person households		
		Male head, wife present, no nonrelatives					Other male head		Female head		Under 65 years	65 years and over
		Under 25 years	25 to 34 years	35 to 44 years	45 to 64 years	65 years and over	Under 65 years	65 years and over	Under 65 years	65 years and over		
<b>Owner occupied housing units</b>	<b>45 359</b>	<b>1 359</b>	<b>6 128</b>	<b>7 165</b>	<b>13 724</b>	<b>5 227</b>	<b>963</b>	<b>235</b>	<b>3 073</b>	<b>939</b>	<b>2 960</b>	<b>3 344</b>
<b>PLUMBING FACILITIES BY PERSONS PER ROOM</b>												
With all plumbing facilities	44 825	1 349	6 109	7 144	13 656	5 133	953	235	3 031	923	2 885	3 407
0.50 or less	24 195	460	1 148	1 182	7 846	4 361	455	192	1 535	730	2 879	3 407
0.51 to 1.00	18 160	843	4 332	5 000	5 313	728	431	39	1 294	174	6	-
1.01 to 1.50	2 125	38	566	823	411	34	58	4	184	7	-	-
1.51 or more	345	8	63	139	86	10	9	-	18	12	-	-
Lacking some or all plumbing facilities	534	10	19	21	68	94	10	-	42	14	73	178
0.50 or less	385	-	-	-	44	57	-	-	28	16	61	179
0.51 to 1.00	117	5	15	16	14	29	10	-	14	-	14	-
1.01 to 1.50	32	5	4	5	10	8	-	-	-	-	-	-
1.51 or more	-	-	-	-	-	-	-	-	-	-	-	-
<b>UNITS IN STRUCTURE</b>												
1	42 580	1 222	5 927	6 992	13 152	4 816	933	210	2 883	826	2 526	3 093
2 or more	2 049	41	138	120	429	327	19	25	147	105	292	406
Mobile home or trailer	730	96	63	53	143	84	11	-	43	8	142	87
<b>INCOME IN 1969</b>												
Less than \$2,000	3 573	22	24	39	139	376	37	37	347	119	482	1 951
\$2,000 to \$2,999	2 328	15	20	15	183	731	9	21	227	126	317	684
\$3,000 to \$3,999	2 117	21	32	15	199	782	35	15	243	97	323	355
\$4,000 to \$4,999	1 955	25	103	75	175	544	15	14	350	129	302	253
\$5,000 to \$5,999	1 952	66	111	116	418	463	64	25	306	44	260	79
\$6,000 to \$6,999	2 347	186	259	237	514	375	50	24	235	95	278	94
\$7,000 to \$9,999	8 373	376	1 918	1 244	2 483	663	205	41	598	146	566	113
\$10,000 to \$14,999	13 121	525	2 566	3 037	4 863	729	346	38	540	123	297	57
\$15,000 to \$24,999	7 549	92	948	2 008	3 599	375	167	14	181	50	83	32
\$25,000 or more	2 044	11	147	379	1 151	189	35	6	46	10	52	18
Median	\$10 000	\$9 600	\$11 200	\$13 000	\$12 800	\$5 400	\$11 000	\$6 200	\$6 300	\$5 000	\$5 200	\$2000-
<b>VALUE-INCOME RATIO</b>												
Specified owner occupied <sup>1</sup>	41 895	1 198	5 889	6 881	12 928	4 758	906	199	2 813	814	2 457	3 033
Less than 1.5	19 248	577	2 835	3 871	8 459	1 281	515	71	846	191	504	98
1.5 to 1.9	8 216	357	1 682	1 769	2 314	760	148	4	438	101	492	151
2.0 to 2.4	4 209	97	767	770	996	507	112	33	359	161	292	115
2.5 to 2.9	2 395	82	336	202	418	462	40	19	272	70	267	227
3.0 to 3.9	2 455	48	195	168	314	677	31	20	315	90	213	384
4.0 or more	5 146	37	74	101	409	1 060	39	52	503	201	638	2 032
Not computed	226	-	-	-	18	11	21	-	80	-	51	45
<b>Renter occupied housing units</b>	<b>23 136</b>	<b>2 663</b>	<b>2 733</b>	<b>1 188</b>	<b>1 861</b>	<b>920</b>	<b>1 066</b>	<b>122</b>	<b>3 208</b>	<b>346</b>	<b>5 694</b>	<b>3 333</b>
<b>PLUMBING FACILITIES BY PERSONS PER ROOM</b>												
With all plumbing facilities	21 454	2 584	2 684	1 171	1 791	885	1 038	117	3 117	335	4 784	2 948
0.50 or less	10 922	622	540	184	796	569	387	72	842	148	4 235	2 527
0.51 to 1.00	9 137	1 788	1 749	775	864	281	594	40	1 903	173	549	421
1.01 to 1.50	1 098	149	348	164	101	8	28	-	286	14	-	-
1.51 or more	297	25	47	48	30	27	29	5	86	-	-	-
Lacking some or all plumbing facilities	1 682	79	49	17	70	35	28	5	91	11	910	387
0.50 or less	823	-	5	-	10	4	7	-	5	-	479	313
0.51 to 1.00	783	61	31	17	56	31	11	-	60	11	431	74
1.01 to 1.50	58	18	5	-	4	-	4	5	22	-	-	-
1.51 or more	18	-	8	-	-	-	6	-	4	-	-	-
<b>UNITS IN STRUCTURE</b>												
1	6 680	926	1 504	763	925	267	221	43	1 150	107	421	333
2 to 4	6 292	856	649	208	388	204	303	25	1 012	69	1 687	842
5 to 19	6 606	683	403	165	315	285	432	32	854	130	2 200	1 136
20 or more	3 474	172	177	42	233	158	110	22	173	36	1 371	980
Mobile home or trailer	84	26	-	10	-	6	-	-	19	4	15	4
<b>GROSS RENT</b>												
Specified renter occupied <sup>2</sup>	23 039	2 653	2 728	1 178	1 827	916	1 056	122	3 195	346	5 689	3 221
Less than \$50	1 043	27	26	12	36	14	4	13	38	-	497	376
\$50 to \$59	992	32	20	7	30	19	13	5	134	7	385	340
\$60 to \$69	1 406	92	30	45	91	42	32	10	139	50	568	307
\$70 to \$79	2 045	154	82	22	112	112	49	17	264	33	829	371
\$80 to \$99	4 038	560	305	157	182	175	158	10	621	68	1 136	666
\$100 to \$119	3 733	534	558	207	302	125	187	21	551	45	796	407
\$120 to \$149	4 177	743	718	294	321	116	176	13	627	52	708	469
\$150 to \$199	3 701	423	768	259	389	139	286	6	684	43	532	172
\$200 to \$299	988	45	173	114	133	64	124	-	126	18	96	95
\$300 or more	197	-	5	5	61	54	-	12	-	5	17	38
No cash rent	719	43	43	56	170	56	27	15	11	25	125	148
<b>GROSS RENT AS PERCENTAGE OF INCOME BY INCOME</b>												
Specified renter occupied <sup>2</sup>	23 039	2 653	2 728	1 178	1 827	916	1 056	122	3 195	346	5 689	3 221
Less than \$5,000	10 587	682	265	123	273	473	496	81	2 077	222	3 060	2 835
Less than 20 percent	648	24	4	-	17	11	17	7	80	11	383	94
20 to 24 percent	1 948	69	36	21	23	42	12	11	119	29	435	151
25 to 34 percent	1 976	146	83	29	81	63	42	10	428	37	630	427
35 percent or more	6 335	427	127	62	121	314	397	38	1 346	118	1 398	1 987
Not computed	6 880	16	15	11	31	43	28	15	104	27	214	176
\$5,000 to \$9,999	7 642	1 425	1 206	502	687	219	334	21	931	78	1 913	326
Less than 20 percent	3 966	755	576	292	333	95	132	5	376	42	1 230	130
20 to 24 percent	1 667	320	349	74	155	47	81	11	188	5	338	99
25 to 34 percent	1 399	273	236	71	100	39	69	-	267	9	279	55
35 percent or more	415	35	26	32	26	26	47	-	107	7	55	32
Not computed	195	22	19	33	73	12	5	5	160	7	11	10
\$10,000 to \$14,999	3 363	478	1 003	311	501	110	157	4	148	16	533	102
Less than 20 percent	2 744	430	828	255	377	87	103	4	131	9	490	50
20 to 24 percent	353	32	131	38	52	17	28	-	17	-	27	11
25 percent or more	131	6	29	10	11	6	10	-	-	-	11	41
Not computed	115	10	15	8	61	-	16	-	-	-	7	-
\$15,000 or more	1 447	68	254	242	366	114	69	16	39	30	183	66
Less than 20 percent	1 335	68	254	232	334	82	69	10	39	25	166	58
20 to 24 percent	60	-	-	-	17	10	-	6	-	-	12	10
25 percent or more	21	-	-	-	5	16	-	-	-	-	-	-
Not computed	31	-	-	10	10	6	-	-	-	-	5	-

<sup>1</sup>Limited to one-family homes on less than 10 acres and no business on property.

<sup>2</sup>Excludes one-family homes on 10 acres or more.

Table B—8. Persons in Owner and Renter Occupied Housing Units: 1970

[Data based on sample, see text. For minimum base for derived figures (percent, median, etc.) and meaning of symbols, see text]

Des Moines	Total	1 person	2 persons	3 persons	4 persons	5 persons	6 persons	7 persons	8 persons or more	Median
<b>Owner occupied housing units</b> .....	<b>45 359</b>	<b>6 546</b>	<b>14 549</b>	<b>7 859</b>	<b>7 233</b>	<b>4 845</b>	<b>2 522</b>	<b>1 156</b>	<b>649</b>	<b>2.7</b>
<b>BEDROOMS</b>										
None and 1 .....	3 062	1 291	1 382	239	67	60	—	—	23	1.7
2 .....	17 832	3 782	8 018	3 344	1 609	703	275	78	23	2.1
3 .....	18 469	1 242	4 456	3 430	4 506	2 879	1 355	343	258	3.5
4 or more .....	5 972	409	785	761	970	1 154	889	535	469	4.6
<b>YEAR STRUCTURE BUILT</b>										
1969 to March 1970 .....	569	29	123	144	141	76	32	14	10	3.4
1965 to 1968 .....	1 944	65	382	387	533	330	182	35	30	3.8
1960 to 1964 .....	3 810	176	787	616	965	809	297	108	52	3.8
1950 to 1959 .....	10 861	896	3 151	2 201	2 160	1 404	637	298	114	3.1
1940 to 1949 .....	6 253	887	2 227	1 169	944	565	268	115	78	2.5
1939 or earlier .....	21 922	4 493	7 879	3 342	2 490	1 661	1 106	586	365	2.3
<b>UNITS IN STRUCTURE</b>										
1 .....	42 580	5 619	13 477	7 467	7 006	4 747	2 477	1 142	645	2.8
2 or more .....	2 049	698	762	282	171	88	30	14	4	1.9
Mobile home or trailer .....	730	229	310	110	56	10	15	—	—	1.9
<b>COMPLETE BATHROOMS</b>										
1 and 1 1/2 .....	39 687	5 922	13 201	6 910	6 273	4 000	2 024	921	436	2.6
2 and 2 1/2 .....	4 193	225	1 007	791	764	695	380	231	100	3.6
3 or more .....	626	52	102	97	130	105	57	40	43	4.0
None or also used by another household .....	851	304	303	45	79	39	44	20	17	1.9
<b>HOUSEHOLD COMPOSITION</b>										
<b>Two-or-more-person households</b> .....	<b>38 813</b>	...	<b>14 549</b>	<b>7 859</b>	<b>7 233</b>	<b>4 845</b>	<b>2 522</b>	<b>1 156</b>	<b>649</b>	<b>3.1</b>
Male head, wife present, no nonrelatives .....	33 603	...	12 034	6 643	6 566	4 450	2 319	1 037	554	3.2
Under 25 years .....	1 359	...	343	538	378	71	25	4	—	3.1
25 to 34 years .....	6 128	...	583	1 155	2 116	1 376	624	195	79	4.1
35 to 44 years .....	7 165	...	581	826	1 911	1 919	1 127	547	254	4.6
45 to 64 years .....	13 724	...	6 239	3 432	2 004	1 060	506	266	217	2.7
65 years and over .....	5 227	...	4 288	692	157	24	37	25	4	2.1
Other male head .....	1 198	...	532	294	145	81	63	40	43	2.7
Under 65 years .....	963	...	367	252	145	66	59	35	39	3.0
65 years and over .....	235	...	165	42	—	4	5	5	4	2.2
Female head .....	4 012	...	1 983	922	522	314	140	79	52	2.5
Under 65 years .....	3 073	...	1 292	757	471	310	112	79	52	2.8
65 years and over .....	939	...	691	165	51	4	28	—	—	2.2
<b>One-person households</b> .....	<b>6 546</b>	<b>6 546</b>	...	...	...	...	...	...	...	<b>1.0</b>
<b>VALUE-INCOME RATIO</b>										
Specified owner occupied <sup>1</sup> .....	41 895	5 509	13 264	7 381	6 867	4 667	2 461	1 105	641	2.8
Less than 1.5 .....	19 248	602	5 885	4 237	3 585	2 422	1 535	652	330	3.2
1.5 to 1.9 .....	8 216	643	2 357	1 529	1 552	1 211	495	282	147	3.2
2.0 to 2.4 .....	4 209	407	1 429	549	858	516	260	89	101	3.0
2.5 to 2.9 .....	2 395	494	778	410	386	193	83	21	30	2.4
3.0 to 3.9 .....	2 455	597	1 098	263	235	184	36	38	4	2.1
4.0 or more .....	5 146	2 670	1 668	355	230	130	47	17	29	1.5
Not computed .....	226	96	49	38	21	11	5	6	—	1.8
<b>Renter occupied housing units</b> .....	<b>23 136</b>	<b>9 029</b>	<b>6 604</b>	<b>3 337</b>	<b>2 139</b>	<b>1 012</b>	<b>524</b>	<b>313</b>	<b>178</b>	<b>1.9</b>
<b>BEDROOMS</b>										
None .....	2 535	2 214	270	22	29	—	—	—	—	1.1
1 .....	9 767	5 536	3 013	912	198	65	43	—	—	1.4
2 .....	8 215	1 243	2 825	1 992	1 287	495	265	62	46	2.5
3 or more .....	2 532	19	349	437	583	413	352	203	176	4.3
<b>YEAR STRUCTURE BUILT</b>										
1969 to March 1970 .....	1 078	336	348	211	87	61	29	6	—	2.1
1965 to 1968 .....	1 750	658	679	207	166	14	18	8	—	1.8
1960 to 1964 .....	1 182	286	408	267	135	45	25	6	10	2.2
1950 to 1959 .....	2 301	814	617	368	288	89	80	41	4	2.0
1940 to 1949 .....	1 713	416	466	338	239	157	63	25	9	2.4
1939 or earlier .....	15 112	6 519	4 086	1 946	1 224	646	309	227	155	1.8
<b>UNITS IN STRUCTURE</b>										
1 .....	6 680	774	1 636	1 457	1 212	759	404	276	162	3.1
2 .....	3 222	902	1 127	619	398	99	46	25	6	2.1
3 and 4 .....	3 070	1 647	917	314	125	48	19	—	—	1.4
5 to 9 .....	3 796	2 048	1 136	376	168	32	28	8	—	1.4
10 to 19 .....	2 810	1 288	979	331	122	59	22	4	5	1.6
20 or more .....	3 474	2 351	784	210	109	10	5	—	5	1.2
Mobile home or trailer .....	84	19	25	30	5	5	—	—	—	...
<b>COMPLETE BATHROOMS</b>										
1 and 1 1/2 .....	20 462	7 480	6 088	3 067	1 943	987	439	311	147	2.0
2 or more .....	658	98	214	130	117	24	42	8	25	2.6
None or also used by another household .....	2 026	1 460	281	150	78	14	32	11	—	1.2
<b>HOUSEHOLD COMPOSITION</b>										
<b>Two-or-more-person households</b> .....	<b>14 107</b>	...	<b>6 604</b>	<b>3 337</b>	<b>2 139</b>	<b>1 012</b>	<b>524</b>	<b>313</b>	<b>178</b>	<b>2.6</b>
Male head, wife present, no nonrelatives .....	9 365	...	4 125	2 301	1 537	683	363	215	141	2.7
Under 25 years .....	2 663	...	1 235	998	316	69	27	18	—	2.6
25 to 34 years .....	2 733	...	718	722	722	284	168	84	35	3.4
35 to 44 years .....	1 188	...	263	207	258	230	108	50	72	4.0
45 to 64 years .....	1 861	...	1 083	329	212	87	57	59	34	2.4
65 years and over .....	920	...	826	45	29	13	3	4	—	2.1
Other male head .....	1 188	...	794	230	108	26	15	11	4	2.2
Under 65 years .....	1 066	...	687	225	98	26	15	11	4	2.3
65 years and over .....	122	...	107	5	—	—	—	—	—	2.1
Female head .....	3 554	...	1 685	806	494	303	146	87	33	2.6
Under 65 years .....	3 208	...	1 409	772	483	284	146	81	33	2.8
65 years and over .....	346	...	276	34	11	19	—	6	—	2.1
<b>One-person households</b> .....	<b>9 029</b>	<b>9 029</b>	...	...	...	...	...	...	...	<b>1.0</b>
<b>GROSS RENT AS PERCENTAGE OF INCOME</b>										
Specified renter occupied <sup>2</sup> .....	23 039	9 018	6 570	3 315	2 116	1 005	524	313	178	1.9
Less than 10 percent .....	1 413	459	513	194	112	65	30	20	20	2.0
10 to 14 percent .....	3 581	1 017	1 196	644	362	204	64	61	33	2.1
15 to 19 percent .....	3 719	1 123	1 094	659	431	173	128	81	30	2.2
20 to 24 percent .....	3 028	1 083	804	482	364	133	106	29	27	2.0
25 to 34 percent .....	3 493	1 431	945	488	307	164	75	57	26	1.8
35 percent or more .....	6 784	3 484	1 736	744	411	221	93	53	42	1.5
Not computed .....	1 021	421	282	104	129	45	28	12	—	1.8

<sup>1</sup>Limited to one-family homes on less than 10 acres and no business on property.

<sup>2</sup>Excludes one-family homes on 10 acres or more.

**Table B-9. Duration of Vacancy for Year-Round Vacant for Sale and Vacant for Rent Housing Units: 1970**

[Data based on sample, see text. For minimum base for derived figures (percent, median, etc.) and meaning of symbols, see text]

Des Moines					Des Moines				
	Total	Less than 2 months	2 up to 6 months	6 months or more		Total	Less than 2 months	2 up to 6 months	6 months or more
<b>Vacant for sale</b> .....	564	319	155	90	<b>Vacant for rent</b> .....	2 244	1 581	471	192
<b>ROOMS</b>					<b>ROOMS</b>				
1 to 3 rooms .....	17	10	3	4	1 room .....	250	202	31	17
4 rooms .....	92	50	21	21	2 rooms .....	432	348	55	29
5 rooms .....	215	122	62	31	3 rooms .....	642	453	125	64
6 rooms .....	133	71	39	23	4 rooms .....	551	377	154	20
7 rooms or more .....	107	66	30	11	5 rooms .....	238	126	81	31
					6 rooms .....	75	46	17	12
					7 rooms or more .....	56	29	8	19
<b>PLUMBING FACILITIES</b>					<b>PLUMBING FACILITIES</b>				
With all plumbing facilities .....	564	319	155	90	With all plumbing facilities .....	1 852	1 279	424	149
Lacking some or all plumbing facilities .....	-	-	-	-	Lacking some or all plumbing facilities .....	392	302	47	43
<b>BEDROOMS</b>					<b>BEDROOMS</b>				
None and 1 .....	42	17	25	-	None .....	395	272	62	61
2 .....	224	186	24	14	1 .....	1 135	722	274	139
3 .....	176	113	63	-	2 .....	450	373	77	-
4 or more .....	115	84	31	-	3 or more .....	183	77	92	14
<b>YEAR STRUCTURE BUILT</b>					<b>YEAR STRUCTURE BUILT</b>				
1969 to March 1970 .....	75	46	20	9	1969 to March 1970 .....	370	227	143	-
1960 to 1968 .....	83	50	21	12	1960 to 1968 .....	194	158	32	4
1950 to 1959 .....	87	53	26	8	1950 to 1959 .....	174	119	42	13
1949 or earlier .....	319	170	88	61	1949 or earlier .....	1 506	1 077	254	175
<b>UNITS IN STRUCTURE</b>					<b>UNITS IN STRUCTURE</b>				
1 .....	545	308	151	86	1 .....	391	250	70	71
2 or more .....	19	11	4	4	2 to 4 .....	459	305	98	56
					5 to 9 .....	554	409	96	49
					10 to 19 .....	413	273	128	12
					20 or more .....	427	344	79	4
<b>HEATING EQUIPMENT</b>					<b>RENT ASKED</b>				
Steam or hot water .....	9	9	-	-	<b>Specified vacant for rent<sup>2</sup></b>	2 218	1 574	466	178
Warm-air furnace .....	517	292	135	90	Less than \$50 .....	200	152	31	17
Built-in electric units .....	8	-	-	-	\$50 to \$59 .....	162	109	34	19
Floor, wall, or pipeless furnace .....	8	5	3	-	\$60 to \$79 .....	555	415	88	52
Other means .....	30	13	17	-	\$80 to \$99 .....	389	278	79	32
None .....	-	-	-	-	\$100 to \$119 .....	229	144	62	23
					\$120 to \$149 .....	246	173	60	13
					\$150 to \$199 .....	319	230	71	18
					\$200 or more .....	118	73	41	4
					Median rent asked .....	\$90	\$88	\$100	\$81
<b>SALES PRICE ASKED</b>									
<b>Specified vacant for sale<sup>1</sup></b>	531	302	151	78					
Less than \$5,000 .....	22	11	11	-					
\$5,000 to \$9,999 .....	171	75	46	50					
\$10,000 to \$14,999 .....	129	92	33	4					
\$15,000 to \$19,999 .....	100	46	41	13					
\$20,000 to \$24,999 .....	61	44	17	-					
\$25,000 to \$34,999 .....	35	25	3	7					
\$35,000 to \$49,999 .....	13	9	-	4					
\$50,000 or more .....	-	-	-	-					
Median price asked .....	\$12 800	\$13 500	\$12 800	...					

<sup>1</sup>Limited to one-family homes on less than 10 acres and no business on property. <sup>2</sup>Excludes one-family homes on 10 acres or more.

**Table B-10. Sales Price Asked and Rent Asked for Year-Round Vacant Housing Units: 1970**

[Data based on sample, see text. For meaning of symbols, see text]

Des Moines	Sales price asked—Vacant for sale <sup>1</sup>							Rent asked—Vacant for rent <sup>2</sup>						
	Total	Less than \$10,000	\$10,000 to \$14,999	\$15,000 to \$19,999	\$20,000 to \$24,999	\$25,000 to \$34,999	\$35,000 or more	Total	Less than \$60	\$60 to \$79	\$80 to \$99	\$100 to \$149	\$150 to \$199	\$200 or more
<b>Total</b> .....	531	193	129	100	61	35	13	2 218	362	555	389	475	319	116
<b>PLUMBING FACILITIES</b>														
With all plumbing facilities .....	540	182	131	118	57	38	14	1 729	168	335	484	348	299	95
Lacking some or all plumbing facilities .....	-	-	-	-	-	-	-	434	235	123	61	-	15	-
<b>BEDROOMS</b>														
None and 1 .....	42	42	-	-	-	-	-	1 530	358	386	454	224	108	-
2 .....	207	92	84	31	-	-	-	450	15	43	61	62	174	95
3 .....	176	17	15	87	57	-	-	138	14	15	15	62	32	-
4 or more .....	115	31	32	-	-	38	14	45	16	14	15	-	-	-
<b>YEAR STRUCTURE BUILT</b>														
1969 to March 1970 .....	67	-	-	21	26	11	9	370	4	11	16	119	133	67
1960 to 1968 .....	83	14	11	18	17	19	4	194	5	-	10	47	119	13
1950 to 1959 .....	83	31	20	17	10	5	-	174	10	80	22	58	4	-
1949 or earlier .....	298	148	98	44	8	-	-	1 480	343	464	341	251	63	18
<b>UNITS IN STRUCTURE</b>														
1 .....	...	...	...	...	...	...	...	365	37	94	83	115	36	-
2 to 4 .....	...	...	...	...	...	...	...	459	91	167	121	57	23	-
5 to 19 .....	...	...	...	...	...	...	...	967	209	220	158	215	146	19
20 or more .....	...	...	...	...	...	...	...	427	25	74	27	88	114	99
<b>INCLUSION OF UTILITIES IN RENT</b>														
All utilities included .....	...	...	...	...	...	...	...	1 294	302	383	282	210	72	45
Some or no utilities included .....	...	...	...	...	...	...	...	924	60	172	107	265	247	73

<sup>1</sup>Limited to one-family homes on less than 10 acres and no business on property. <sup>2</sup>Excludes one-family homes on 10 acres or more.

## Appendix A.—AREA CLASSIFICATIONS

<b>USUAL PLACE OF RESIDENCE ..</b>	<b>App-1</b>
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<b>PLACES .....</b>	<b>App-1</b>
<b>STANDARD METROPOLITAN STATISTICAL AREAS .....</b>	<b>App-1</b>

### USUAL PLACE OF RESIDENCE

In accordance with census practice dating back to 1790, each person enumerated in the 1970 census was counted as an inhabitant of his usual place of residence, which is generally construed to mean the place where he lives and sleeps most of the time. This place is not necessarily the same as his legal residence, voting residence, or domicile. In the vast majority of cases, however, the use of these different bases of classification would produce substantially the same statistics although there may be appreciable differences for a few areas.

The implementation of this practice has resulted in the establishing of residence rules for certain categories of persons whose usual place of residence is not immediately clear. Furthermore, this practice means that persons were not always counted as residents of the place where they happened to be found by the census enumerators. Persons without a usual place of residence were, however, counted where they were enumerated. Detailed information on residence rules is given in the 1970 Population Census PC(1)-A reports.

### COUNTIES

The primary divisions of the States are, in general, termed counties, but in Louisiana these divisions are known as parishes. There are no counties in Alaska; in this State, statistical areas called census divisions were developed

for general statistical purposes through the cooperation of the State and the Census Bureau and are treated as county equivalents. In four States (Maryland, Missouri, Nevada, and Virginia), there are one or more cities which are independent of any county organization and thus constitute primary divisions of their States.

### PLACES

Two types of places are recognized in the census reports, incorporated places and unincorporated places. Incorporated places are political units incorporated as cities, boroughs, towns, and villages except for (a) boroughs in Alaska and (b) towns in the New England States, New York, and Wisconsin. Unincorporated places are closely settled population centers without corporate limits for which the Census Bureau has delineated boundaries. Each place so delineated possesses a definite nucleus of residences and has its boundaries drawn to include, if feasible, all the surrounding closely settled area. Unincorporated places are identified with the letter "U."

### STANDARD METROPOLITAN STATISTICAL AREAS

The Bureau of the Census recognizes 243 standard metropolitan statistical areas (SMSA's) in the United States and 4 in Puerto Rico, making a total of 247 in the 1970 census. These include the 231 SMSA's as defined and named in the Bureau of the Budget publication, **Standard Metropolitan Statistical Areas: 1967**, U.S. Government Printing Office, Washington, D.C. 20402. Since 1967, 16 SMSA's have been added, of which two were defined in January 1968 and an additional 14 were defined in February

1971 on the basis of the results of the 1970 census. Changes in SMSA boundaries or titles made after February 1971 are not recognized in this series of reports. SMSA's are defined by the Office of Management and Budget (formerly Bureau of the Budget).

Except in the New England States, a standard metropolitan statistical area is a county or group of contiguous counties which contains at least one city of 50,000 inhabitants or more, or "twin cities" with a combined population of at least 50,000. In addition to the county or counties containing such a city or cities, contiguous counties are included in an SMSA if, according to certain criteria, they are socially and economically integrated with the central city. In the New England States, SMSA's consist of towns and cities instead of counties. Each SMSA must include at least one central city, and the complete title of an SMSA identifies the central city or cities. For a detailed description of the criteria used in defining SMSA's, see the Bureau of the Budget publication cited above.

The figures for central cities shown in this report may differ from those shown in the Housing Census HC(1)-A and HC(1)-B reports. In those reports, if a central city of an SMSA is an extended city (so designated because it has extended its boundaries to include territory essentially rural in character), the figures shown for the central city were restricted to the urban portion of the city. In addition, parts of central cities outside the SMSA boundaries were excluded from the central city tabulations. In this report, however, figures for central cities refer to the entire population and housing within the legal city boundaries, including any rural parts of the city or parts outside the SMSA

## Appendix B.—DEFINITIONS AND EXPLANATIONS OF SUBJECT CHARACTERISTICS

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### GENERAL

**Self-enumeration and census questionnaire.**—As stated in the introductory text of this report, the 1970 census was conducted primarily through self-enumeration. Furthermore, census takers were instructed to read the questions directly from the questionnaire in their telephone and personal visit interviews. The questionnaire pages containing the housing questions asked on a 100-percent basis and the additional questions asked on a sample basis, as well as the page of the respondent instruction sheet which relates to these questions, are reproduced on pages App-10 to App-13. The definitions and explanations given below for each subject are, to a considerable extent, drawn from various technical and procedural materials used in the collection of the data. This material helped the enumerative personnel to understand more fully the intent of each question and thus to resolve problem or unusual cases. Also included is certain explanatory information to assist the user in the proper utilization of the statistics.

**Comparability with 1960 data.**—Although the 1970 data are generally comparable with the data collected in 1960, certain changes have been introduced. The 1960 inquiry regarding owner occupancy has been subdivided to show a separate category for cooperatives and condominiums in 1970. The 1960 question on cooking equipment was broadened in 1970 to cover "complete kitchen facilities"; i.e., an installed sink with piped water, a range or cookstove, and a mechanical refrigerator. On the other hand, the 1960 question on condition of housing unit (i.e., sound, deteriorating, or dilapidated) was eliminated because of serious problems with response reliability.

Items which were added to the 1970 questionnaire are dishwasher and owned second home. The 1960 inquiry on television has been subdivided to provide separate information on television sets which can receive UHF broadcasts. The 1970 inquiry on radios is limited to battery-operated sets including car radios, whereas the 1960 inquiry covered radio sets of all kinds located in the unit. Data on television sets and radios are not given in this report; statistics on these appliances, however, are presented in the 1970 Housing Census, HC(1)-B reports.

There have also been changes in the scope of some of the tabulations. The tabulations on value and contract rent refer to slightly different sets of housing units in 1970 than in 1960. Summarized generally, the difference is that the 1970 data exclude units on places of 10 acres or more whereas the 1960 data exclude units on farms; more specific information can be obtained by comparing the value and rent definitions in the present report with those in 1960 Housing Census Volume I.

Data on elevator in structure were collected for all geographic areas in 1970. In 1960, statistics on elevator in structure were collected only for large places; that is, places which had a population of 50,000 or more in 1950 or in an interim census.

Separate data on a number of subjects are presented for occupied units with Negro head of household. In 1960, this type of tabulation related to the total of all household heads other than white; Negro household heads constituted 95 percent of this total in 1960 for the Nation as a whole, but this proportion varied widely among areas.

Separate data are also shown in this report for housing units occupied by heads of Spanish heritage, that is, household heads of Spanish language or Spanish surname in five Southwestern States (Arizona, California, Colorado, New Mexico, and Texas), heads of Puerto Rican birth or parentage in New York, New Jersey, and Pennsylvania, and heads of Spanish language in all other States. In 1960, household heads of Spanish surname were identified in the five Southwestern States and Puerto Rican heads of households were identified in all other States. More information on the 1970 definition is given in this report and in the 1970 Population Census Series PC(1)-C reports; the 1960 definition is more fully explained in the 1960 Census of Housing Volume 1 reports.

### LIVING QUARTERS

Living quarters are classified in the census as either housing units or group quarters. Usually, living quarters are in structures intended for residential use (e.g., a one-family home, apartment house, hotel or motel, boarding house,

mobile home or trailer, etc.). Living quarters may also be in structures intended for nonresidential use (e.g., the rooms in a warehouse where a watchman lives), as well as in tents, caves, old railroad cars, etc.

**Housing units.**—A housing unit is a house, an apartment, a group of rooms, or a single room occupied or intended for occupancy as separate living quarters. Separate living quarters are those in which the occupants do not live and eat with any other persons in the structure and which have either (1) direct access from the outside of the building or through a common hall or (2) complete kitchen facilities for the exclusive use of the occupants. The occupants may be a single family, one person living alone, two or more families living together, or any other group of related or unrelated persons who share living arrangements (except as described in the section on group quarters). For vacant units, the criteria of separateness, direct access, and complete kitchen facilities for exclusive use are applied to the intended occupants, whenever possible. If the information cannot be obtained, the criteria are applied to the previous occupants. Both occupied and vacant housing units are included in the housing inventory, except that mobile homes, trailers, tents, caves, boats, railroad cars, and the like, are included only if they are occupied.

**Group quarters.**—Group quarters are living arrangements for institutional inmates or for other groups containing five or more persons not related to the person in charge. Group quarters are located most frequently in institutions, boarding houses, military barracks, college dormitories, fraternity and sorority houses, hospitals, mona-

steries, convents, and ships. A house or apartment is considered group quarters if it is shared by the person in charge and five or more persons unrelated to him, or if there is no person in charge, by six or more unrelated persons. Information on the housing characteristics of group quarters was not collected in the census.

**Rules for mobile homes, hotels, rooming houses, etc.**—Mobile homes or trailers, tents, boats, or railroad cars are not enumerated if vacant, used only for business, or used only for vacations.

Occupied rooms or suites of rooms in hotels, motels, and similar places are classified as housing units only when occupied by permanent residents; i.e., persons who consider the hotel as their usual place of residence or have no usual place of residence elsewhere. Vacant rooms or suites of rooms are classified as housing units only in those hotels, motels, and similar places in which 75 percent or more of the accommodations are occupied by permanent residents.

If any of the occupants in a rooming or boarding house live and eat separately from everyone else in the building and have either direct access or complete kitchen facilities for exclusive use, their quarters are classified as separate housing units. The remaining quarters are combined. If the combined quarters contain four or fewer roomers unrelated to the head, they are classified as one housing unit; if the combined quarters contain five or more roomers unrelated to the head or person in charge, they are classified as group quarters. In a dormitory, residence hall, or similar place, living quarters of the supervisory staff and other employees are separate housing units if they satisfy the housing unit

criteria; other living quarters are considered group quarters.

**Institutions.**—Living quarters of staff personnel are separate housing units if they satisfy the housing unit criteria. Other living quarters are considered group quarters.

#### OCCUPANCY AND VACANCY CHARACTERISTICS

**Occupied housing units.**—A housing unit is classified as occupied if a person or group of persons is living in it at the time of enumeration or if the occupants are only temporarily absent—for example, on vacation. However, if the persons staying in the unit have their usual place of residence elsewhere, the unit is classified as vacant.

A household consists of all the persons who occupy a housing unit. By definition, therefore, the count of occupied housing units is the same as the count of households in the 1970 Census of Population reports. In some cases, however, there may be small differences in the counts resulting from processing procedures.

**Race.**—The classification by race shown here refers to the race of the head of the household occupying the housing unit. Detailed characteristics of units with Negro head of household are presented in separate tables for SMSA's, cities or places having a Negro population of 25,000 or more. The concept of race as used by the Census Bureau does not denote clear-cut scientific definitions of biological stock. The data represent essentially self-classification by people according to the race with which they identify themselves.

**Spanish heritage.**—The inquiries in the 1970 census permit the identification of housing units occupied by heads of Spanish heritage by various means: birthplace, birthplace of parents, language, and surname. The specific types of identification are given below. A more detailed explanation is given in the 1970 Population Census PC(1)-C reports.

**Puerto Rican birth or parentage.**—Household heads of Puerto Rican birth or parentage are identified in the three Middle Atlantic States: New York, New Jersey, and Pennsylvania.

**Spanish language or Spanish surname.**—In five Southwestern States—Arizona, California, Colorado, New Mexico, and Texas—household heads of Spanish language or Spanish surname are identified. (A household head is classified as of Spanish language if the head or his wife reported Spanish as his or her mother tongue, i.e., the language spoken at home when the person was a child.)

**Spanish language.**—In all other States and the District of Columbia, household heads of Spanish language (as defined above) are identified.

Detailed characteristics of units with heads of Spanish heritage are presented in separate tables for SMSA's, cities or places having a population of 25,000 or more for the particular Spanish-heritage group.

**Tenure.**—(See facsimiles of questionnaire item H9 and instructions on pages App-10 and App-13.) A housing unit is "owner occupied" if the owner or co-owner lives in the unit, even if it is mortgaged or not fully paid for. A

cooperative or condominium unit is "owner occupied" only if the owner or co-owner lives in it. All other occupied units are classified as "renter occupied," including units rented for cash rent and those occupied without payment of cash rent.

**Year moved into unit.**—Data on year moved into unit are based on the information reported for the head of the household. The question refers to the year of latest move. Thus, if the head moved back into a unit he had previously occupied, the year of his latest move was to be reported; if he moved from one apartment to another in the same building, the year he moved into his present unit was to be reported. The intent is to establish the year the present occupancy by the head began. The year the head moves is not necessarily the same year other members of the household move, although in the great majority of cases the entire household moves at the same time.

**Vacant housing units.**—A housing unit is vacant if no one is living in it at the time of enumeration, unless its occupants are only temporarily absent. In addition, a vacant unit may be one which is occupied entirely by persons who have a usual residence elsewhere.

New units not yet occupied are classified as vacant housing units if construction has reached a point where all exterior windows and doors are installed and final usable floors are in place. Vacant units are excluded if unfit for human habitation; that is, if the roof, walls, windows, or doors no longer protect the interior from the elements, or if there is positive evidence (such as a sign on the house or in the block) that the unit is to be demolished or is condemned. Also

excluded are quarters being used entirely for nonresidential purposes, such as a store or an office, or quarters used for the storage of business supplies or inventory, machinery, or agricultural products.

**Vacancy status.**—(See facsimile of questionnaire item C on page App-10.) Vacant housing units are classified as either "seasonal and migratory" or "year-round." "Seasonal" units are intended for occupancy during only certain seasons of the year. Included are units intended for recreational use, such as beach cottages and hunting cabins, and vacant units held for herders and loggers. "Migratory" units are vacant units held for occupancy by migratory labor employed in farm work during the crop season. "Year-round" vacant housing units are available or intended for occupancy at any time of the year. A unit in a resort area which is usually occupied on a year-round basis is considered year-round. A unit used only occasionally throughout the year is also considered year-round.

This report presents statistics for "year-round" vacant units on the market for sale or for rent. Excluded are "seasonal and migratory" vacant units, as well as "year-round" vacant units sold or rented but not yet occupied by the new owner or renter, units held for the occasional use of the owner, and units held off the market for other reasons.

**Vacant for sale.**—Vacant year-round units "for sale" also include vacant units in a cooperative or condominium building if the individual units are offered for sale only.

**Vacant for rent.**—Vacant year-round units "for rent" also include vacant units offered either for rent or for sale.

**Duration of vacancy.**—(See facsimile of questionnaire item D on page App-10.) The statistics on duration of vacancy refer to the length of time (in months) from the date the last occupants moved from the unit to the date of enumeration. The data, therefore, do not provide a direct measure of the total length of time units remain vacant. For newly constructed units which have never been occupied, the duration of vacancy is counted from the date construction was completed. For recently converted or merged units, the time is reported from the date conversion or merger was completed.

#### UTILIZATION CHARACTERISTICS

**Persons.**—All persons occupying the housing unit are counted. These persons include not only occupants related to the head of the household but also any lodgers, roomers, boarders, partners, wards, foster children, and resident employees who share the living quarters of the household head. The data on "persons" show the number of housing units occupied by the specified number of persons.

Units with one or more roomers, boarders, or lodgers are shown as a separate category. Not included as "roomers, boarders, or lodgers" are servants who live in, companions, partners, etc.

**Rooms.**—(See facsimiles of questionnaire item H4 and instructions on pages App-10 and App-13.) The statistics on "rooms" are in terms of the number of housing units with specified number of rooms. The intent of this question was to count the number of whole rooms used for living purposes. As stated on the questionnaire and instruction sheet, bathrooms, foyers,

utility rooms, unfinished attics or basements, etc., are not included in the count of rooms.

**Persons per room.**—"Persons per room" is computed for each occupied unit by dividing the number of persons in the unit by the number of rooms in the unit. The figures shown refer, therefore, to the number of housing units having the specified ratio of persons per room.

**Bedrooms.**—(See facsimile of questionnaire item H26 on page App-12.) The number of bedrooms in the unit is the count of rooms used mainly for sleeping, even if also used for other purposes. Rooms reserved for sleeping such as guest rooms, even though used infrequently, are counted as bedrooms. On the other hand, rooms used mainly for other purposes, even though used also for sleeping, such as a living room with a hideaway bed, are not considered bedrooms. A housing unit consisting of only one room, such as one-room efficiency apartment, is classified, by definition, as having no bedroom.

#### STRUCTURAL AND PLUMBING CHARACTERISTICS

**Direct access.**—(See facsimiles of questionnaire item H2 and instructions on pages App-10 and App-13.) A housing unit is regarded as having direct access if there is (1) a direct entrance from the outdoors, or (2) an entrance from a hall, lobby, or vestibule which is usually used by the occupants of more than one unit or by the general public.

**Complete kitchen facilities.**—(See facsimiles of questionnaire item H3 and instructions on pages App-10 and App-13.) A unit has complete kitchen facilities when it has all three of the

following: (1) an installed sink with piped water, (2) a range or cookstove, and (3) a mechanical refrigerator.

All kitchen facilities must be located in the structure. They need not be in the same room. Quarters with only portable cooking equipment are not considered as having a range or cookstove. An icebox is not included as a mechanical refrigerator.

The kitchen facilities are for the exclusive use of the occupants (shown on the questionnaire as "for this household only") when they are used only by the occupants of one housing unit, including lodgers or other unrelated persons living in the unit. When a structure consists of only one housing unit, all equipment located inside the structure is classified, by definition, for exclusive use.

**Year structure built.**—(See facsimile of questionnaire item H15 on page App-11.) Year structure built refers to when the building was first constructed, not when it was remodeled, added to, or converted. The figures relate to the number of units in structures built during the specified periods and in existence at the time of enumeration.

**Units in structure.**—(See facsimiles of questionnaire item H16 and instructions on pages App-11 and App-13.) In the determination of the number of units in a structure, all housing units, both occupied and vacant, were counted. The statistics are presented in terms of the number of housing units in structures of specified type and size, not in terms of the number of residential structures.

A structure is a separate building that either has open space on all sides or is separated from other structures by dividing walls that extend from ground to roof. Structures containing

only one housing unit are further classified as detached or attached (as explained on the questionnaire and instruction sheet).

Mobile homes and trailers are shown as a separate category. When one or more rooms have been added to a mobile home or trailer it is classified as a one-family house. If, however, only a porch or shed has been added, it is still counted as a mobile home or trailer.

The data on units in structure shown in this report may differ from the comparable figures in the HC(1)-A report. The answers to item H16 on the sample questionnaire made it possible in the HC(2) tabulations to correctly classify as mobile homes or trailers those which were incorrectly classified as one-family houses or as housing units in multiunit structures in the HC(1)-A tabulations.

**Elevator in structure.**—(See facsimiles of questionnaire item H24 and instructions on pages App-12 and App-13.) Statistics on elevator in structure are presented in terms of the number of housing units in structures with four stories or more which have a passenger elevator. Units are in a "walk-up" structure of four stories or more if the structure has no passenger elevator or if the only elevator service is for freight.

**Plumbing facilities.**—(See facsimiles of questionnaire items H5, H6, and H7 and instructions on pages App-10 and App-13.) The category "with all plumbing facilities" consists of units which have hot and cold piped water inside the structure as well as a flush toilet and a bathtub or shower inside the structure for the exclusive use of the occupants of the unit. "Lacking some or all plumbing facilities" means that the unit does not have all three

specified plumbing facilities (hot and cold piped water, as well as flush toilet and bathtub or shower inside the structure), or that the toilet or bathing facilities are also for the use of the occupants of other housing units.

**Complete bathrooms.**—(See facsimile of questionnaire item H21 on page App-11.) A housing unit is classified as having a complete bathroom if it has a room with a flush toilet and bathtub or shower for the exclusive use of the occupants of the unit and a wash basin, as well as piped hot water in the structure. (Although the instructions on the questionnaire do not specify that a complete bathroom must have hot water, this requirement was applied during the processing of the data in an edit combining the items on complete bathrooms and piped water in structure.) A half bathroom has either a flush toilet or a bathtub or shower for exclusive use, but does not have all the facilities for a complete bathroom.

The category "none or also used by another household" consists of units with no bathroom facilities, units with only a half bathroom, and units with bathroom facilities which are also for the use of the occupants of other housing units.

#### EQUIPMENT, FUELS, AND APPLIANCES

**Heating equipment.**—(See facsimiles of questionnaire item H14 and instructions on pages App-11 and App-13.) "Steam or hot water" refers to a central heating system in which heat from steam or hot water is delivered through radiators or other outlets. "Warm-air furnace" refers to a central system which provides warm air through ducts leading to various rooms; central heat pumps are

included in this category. "Built-in electric units" are permanently installed in floors, walls, or ceilings. A "floor, wall, or pipeless furnace" delivers warm air to the room right above the furnace or to the room(s) on one or both sides of the wall in which the furnace is installed. "Other means" includes room heaters with or without flue, fireplaces, stoves, and portable heaters of all types.

For vacant units from which the heating equipment had been removed, the equipment used by the last occupants was to be reported.

**Air conditioning.**—(See facsimiles of questionnaire item H22 and instructions on pages App-11 and App-13.) Air conditioning is defined as the cooling of air by a refrigeration unit; excluded are evaporative coolers, fans, or blowers which are not connected to a refrigeration unit. A central system is a central installation which air-conditions the entire housing unit. In an apartment building, a central system may cool all apartments in the building, each apartment may have its own central system, or there may be several systems, each providing central air conditioning for a group of apartments. A central installation with individual room controls is a central air-conditioning system. A room unit is an individual air conditioner which is installed in a window or an outside wall and is generally intended to cool one room, although it may sometimes be used to cool more than one room.

**Automobiles available.**—(See facsimiles of questionnaire item H23 and instructions on pages App-11 and App-13.) Statistics on automobiles available represent the number of passenger automobiles, including station wagons, which are owned or regularly used by any member of the household and

which are ordinarily kept at home. Taxicabs, pickups, or larger trucks were not to be counted. The figures include leased automobiles and company-owned automobiles kept at home. The statistics, therefore, do not reflect the number of automobiles privately owned or the number of households owning automobiles.

**Appliances.**—(See facsimiles of questionnaire items H27 and instructions on pages App-12 and App-13.)

**Automatic clothes washing machine.**—This category describes a machine that washes, rinses, and damp dries in the same tub; washer-dryer combinations are included in this group.

**Clothes dryer.**—A clothes dryer is a mechanical appliance in which clothes are dried by heated air. A unit with a washer-dryer combination is classified as having a clothes dryer (as well as an automatic clothes washing machine.)

**Dishwasher.**—This category includes both built-in and portable dishwashers.

**Home food freezer.**—A home food freezer is an appliance, separate from the refrigerator, designed for freezing food and for storing frozen food.

**Owned second home.**—(See facsimiles of questionnaire item H30 and instructions on pages App-12 and App-13.) A second home may be a single-family house, vacation cottage, hunting cabin, ski lodge, etc., which is owned and held for use sometime during the year by the owner or members of his household. Second homes may also be owned in partnership with members of a different household. The figures include second homes which are some-

times rented or leased on a short-term basis to other persons but are principally held for the owner's occasional use during the year.

The statistics refer to the number of households that own (one or more) second homes. The data, therefore, do not reflect the number of owned second homes.

## FINANCIAL CHARACTERISTICS

**Value.**—(See facsimiles of questionnaire item H11 and instructions on pages App-10 and App-13.) Value is the respondent's estimate of how much the property (house and lot) would sell for if it were for sale. The statistics on value are shown only for one-family houses on less than 10 acres without a commercial establishment or medical office on the property. The value tabulations also exclude mobile homes and trailers and units in cooperatives and condominiums.

As stated in the section on "units in structure," certain mobile homes and trailers were incorrectly classified as one-family houses in the HC(1)-A tabulations. In the HC(2) reports, the number of specified owner-occupied (one-family) units and the value tabulations correctly exclude the misclassified mobile homes and trailers; these tend to be at the lower end of the value distribution. As a result, the data on value shown in this report may differ from the comparable statistics in the HC(1)-A report.

**Sales price asked.**—For vacant units, the sales price is the amount asked for the property at the time of enumeration. The statistics on sales price are shown only for vacant for sale one-family houses on less than 10 acres without a commercial establishment or medical office on the property.

**Gross rent.**—(See facsimiles of questionnaire items H12 and H13 and instructions on pages App-10, 11, and 13.) The computed rent termed "gross rent" is the contract rent plus the estimated average monthly cost of utilities (electricity, gas, water) and fuels (oil, coal, kerosene, wood, etc.), if these items are paid for by the renter (or paid for him by someone else, such as a relative, welfare agency, or friend) in addition to rent. Contract rent is the monthly rent agreed to, or contracted for, regardless of any furnishings, utilities, or services that may be included. Thus, gross rent is intended to eliminate differentials which result from varying practices with respect to the inclusion of utilities and fuel as part of the rental payment. The estimated costs of water and fuels are reported on a yearly basis but they are converted to monthly figures in the computation process.

The statistics on rent exclude one-family houses on ten acres or more. Renter units occupied without payment of cash rent are shown separately as "no cash rent" in the rent tabulations.

**Rent asked.**—For vacant units, the rent is the amount asked for the unit at the time of enumeration. The data are for vacant year-round units for rent, excluding one-family houses on ten acres or more. In table 10, data are provided for two kinds of vacant-for-rent units—those for which the rent includes payment for all utilities and fuel, and those for which the rent includes only some or none of the utilities and fuel. See section on "Gross rent" above for discussion of utilities and fuel.

**Value-income ratio.**—The value-income ratio is computed by dividing the value

of the housing unit by the total income in 1969 of the family or primary individual. The ratio is presented for the same owner-occupied units for which value was tabulated; thus, the statistics on value-income ratio reflect the exclusion of certain owner-occupied units. The ratio was computed separately for each unit and was rounded to the nearest tenth. In reporting value, respondents were asked to select an appropriate class interval. The midpoints of the value intervals were used in the computation of the value-income ratio, except that a mean of \$3,500 was assigned for values less than \$5,000 and a mean of \$60,000 was assigned for values of \$50,000 or more. For income, the dollar amounts were used. Units occupied by families or primary individuals who reported no income or a net loss comprise the category "not computed."

**Gross rent as percentage of income.**—The yearly gross rent (monthly gross rent multiplied by 12) is expressed as a percentage of the total income in 1969 of the family or primary individual. The percentage is presented for the same renter-occupied units for which gross rent was tabulated; thus, the statistics on gross rent as percentage of income reflect the exclusion of certain renter-occupied units. The percentage was computed separately for each unit and was rounded to the nearest whole number. For gross rent, the dollar amounts were used in the computation except that \$999 was assigned for monthly rentals of \$1,000 or more. For income, the dollar amounts were used. Units for which no cash rent is paid and units occupied by families or primary individuals who reported no income or a net loss comprise the category "not computed."

## HOUSEHOLD CHARACTERISTICS

**Head of household.**—One person in each household is designated as the "head," that is, the person who is regarded as the head by the members of the household. However, if a married woman living with her husband is reported as the head, her husband was considered the head for the purpose of simplifying the tabulations.

**Household composition.**—Statistics by age of head are presented separately for two-or-more person households and for one-person households. Households having two or more persons are further subdivided as follows:

**Male head, wife present, no non-relatives.**—Each household in this group consists of the head and his wife, and other persons, if any, all of whom are related to him.

**Other male head.**—This category includes households with male head, wife present, with non-relatives living with them; male heads who are married, but with wife absent because of separation or other reason where husband and wife maintain separate residences; and male heads who are widowed, divorced, or single.

**Female head.**—This group comprises households with female heads regardless of their marital status. Included are female heads with no spouse and female heads whose husbands are living away from their families, as for example, husbands in the Armed Forces living on military installations.

Households consisting of only one person are shown separately as "one-person households" and are not included in the subcategories "other male head" and "female head."

**Nonrelative.**—A nonrelative of the head is any person in the household who is not related to the head by blood, marriage, or adoption. Roomers, boarders, lodgers, partners, resident employees, wards, and foster children are included in this category.

**Family or primary individual.**—Housing units are occupied by either "families" or "primary individuals." The term "family" refers to the head of a household and all (one or more) other persons living in the same household who are related to the head by blood, marriage, or adoption. If the head lives alone or with nonrelatives only, then the head is considered a "primary individual."

Married couples related to the head of a family are included in the family and are not considered as separate families. A lodger, servant, or other person unrelated to the head is considered a member of the household but not of the family.

In the statistics on household composition, families are always included in one of the three major groups of two-or-more person households. Primary individuals with nonrelatives living with them are tabulated as "other male head" or "female head." Primary individuals living alone are always tabulated as "one-person households."

**Income in 1969.**—Income is the sum of the amounts reported for wage and salary income, net self-employment income, Social Security or railroad retirement income, public assistance or welfare income, and all other income. The figures represent the amount of income received before deductions for personal income taxes, Social Security, bond purchases, union dues, health insurance premiums, Medicare deductions, etc.

In this report, the statistics relate to the income of the family or primary individual occupying the housing unit; that is, the sum of the income of the head of the family and all other members of the family 14 years old and over or the income of the primary individual. Incomes of persons living in the unit but not related to the head of the household are not included in this sum. Although the income statistics cover the calendar year 1969, the characteristics of the household refer to the time of enumeration (April 1970). Thus, the income of the family does not include amounts received by persons who were members of the family during all or part of the calendar year 1969 if these persons no longer resided with the family at the time of the census. On the other hand, family income includes amounts reported by related persons who did not reside with the family during 1969 but who were members of the family at the time of enumeration. For most families, however, the income reported was received by persons who were members of the family throughout 1969.

Wage or salary income is defined as the total money earnings received for work performed as an employee at any time during the calendar year 1969. It includes wages, salary, pay from Armed Forces, commissions, tips, piece rate payments, and cash bonuses earned. Net self-employment income is defined as net money income (gross receipts minus operating expenses) received from a business, farm, professional enterprise, or partnership in which the person was engaged on his own account.

Social Security or railroad retirement income includes cash receipts of Social Security pensions, survivors' benefits, permanent disability insurance payments, and special benefit payments made by the Social Security Administration. Cash receipt of retire-

ment, disability, and survivors' benefit payments made by the U.S. Government under the Railroad Retirement Act are also included. Public assistance income includes cash receipts of payments made under the following public assistance programs: Aid to families with dependent children, old age assistance, general assistance, aid to the blind, and aid to the permanently and totally disabled. Separate payments received for hospital or other medical care are not included.

Income from all other sources includes money income received from sources such as interest; dividends; net income (or loss) from property rentals; net receipts from roomers or boarders; veteran's payments; public or private pensions; periodic receipts from insurance policies or annuities; unemployment insurance benefits; workmen's compensation cash benefits; net royalties; periodic payments from estates and trust funds; alimony or child support from persons who are not members of the household; net gambling gains; nonservice scholarships and fellowships; and money received for transportation and/or subsistence by persons participating in special governmental training programs, e.g., under the Manpower Development and Training Act.

Receipts from the following sources were not included as income: Money received from the sale of property (unless the recipient was engaged in the business of selling such property); the value of income "in kind" such as food produced and consumed in the home or free living quarters; withdrawal of bank deposits; money borrowed; tax refunds; exchange of money between relatives living in the same household; gifts and lump-sum inheritances, insurance payments, and other types of lump-sum receipts. (A more detailed discussion of income is given in the 1970 Population Census, PC(1)-C reports.)

APPENDIX B—Continued

FACSIMILES OF THE HOUSING PAGES IN THE 1970 CENSUS QUESTIONNAIRES  
(Questions on this page appeared on both the 15-percent and 5-percent questionnaires)

<p><b>A.</b> How many living quarters, occupied and vacant, are at this address?</p> <p><input type="radio"/> One</p> <p><input type="radio"/> 2 apartments or living quarters</p> <p><input type="radio"/> 3 apartments or living quarters</p> <p><input type="radio"/> 4 apartments or living quarters</p> <p><input type="radio"/> 5 apartments or living quarters</p> <p><input type="radio"/> 6 apartments or living quarters</p> <p><input type="radio"/> 7 apartments or living quarters</p> <p><input type="radio"/> 8 apartments or living quarters</p> <p><input type="radio"/> 9 apartments or living quarters</p> <p><input type="radio"/> 10 or more apartments or living quarters</p> <p><input type="radio"/> This is a mobile home or trailer</p>	<p><b>H9.</b> Are your living quarters—</p> <p><input type="radio"/> Owned or being bought by you or by someone else in this household? <i>Do not include cooperatives and condominiums here.</i></p> <p><input type="radio"/> A cooperative or condominium which is owned or being bought by you or by someone else in this household?</p> <p><input type="radio"/> Rented for cash rent?</p> <p><input type="radio"/> Occupied without payment of cash rent?</p>	<p style="text-align: center;">FOR CENSUS ENUMERATOR'S USE ONLY</p> <table border="1"> <thead> <tr> <th>a4. Block number</th> <th>a5. Serial number</th> </tr> </thead> <tbody> <tr><td>0</td><td>0</td></tr> <tr><td>1</td><td>1</td></tr> <tr><td>2</td><td>2</td></tr> <tr><td>3</td><td>3</td></tr> <tr><td>4</td><td>4</td></tr> <tr><td>5</td><td>5</td></tr> <tr><td>6</td><td>6</td></tr> <tr><td>7</td><td>7</td></tr> <tr><td>8</td><td>8</td></tr> <tr><td>9</td><td>9</td></tr> </tbody> </table>	a4. Block number	a5. Serial number	0	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9
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<p><i>Answer these questions for your living quarters</i></p>	<p><b>H10a.</b> Is this building a <u>one-family house</u>?</p> <p><input type="radio"/> Yes, a one-family house</p> <p><input type="radio"/> No, a building for 2 or more families or a mobile home or trailer</p> <p><b>b.</b> If "Yes"—Is this house on a place of 10 acres or more, or is any part of this property used as a commercial establishment or medical office?</p> <p><input type="radio"/> Yes, 10 acres or more</p> <p><input type="radio"/> Yes, commercial establishment or medical office</p> <p><input type="radio"/> No, none of the above</p>																							
<p><b>H11.</b> Is there a telephone on which people in your living quarters can be called?</p> <p><input type="radio"/> Yes — What is the number? _____</p> <p><input type="radio"/> No</p> <p style="text-align: right;"><i>Phone number</i></p>	<p><b>H11.</b> If you live in a one-family house which you own or are buying—</p> <p>What is the value of this property; that is, how much do you think this property (house and lot) would sell for if it were for sale?</p> <p><input type="radio"/> Less than \$5,000</p> <p><input type="radio"/> \$5,000 to \$7,499</p> <p><input type="radio"/> \$7,500 to \$9,999</p> <p><input type="radio"/> \$10,000 to \$12,499</p> <p><input type="radio"/> \$12,500 to \$14,999</p> <p><input type="radio"/> \$15,000 to \$17,499</p> <p><input type="radio"/> \$17,500 to \$19,999</p> <p><input type="radio"/> \$20,000 to \$24,999</p> <p><input type="radio"/> \$25,000 to \$34,999</p> <p><input type="radio"/> \$35,000 to \$49,999</p> <p><input type="radio"/> \$50,000 or more</p> <p style="font-size: small;"><i>If this house is on a place of 10 acres or more, or if any part of this property is used as a commercial establishment or medical office, do not answer this question.</i></p>	<p><b>B.</b> Type of unit or quarters</p> <p><u>Occupied</u></p> <p><input type="radio"/> First form</p> <p><input type="radio"/> Continuation</p> <p><u>Vacant</u></p> <p><input type="radio"/> Regular</p> <p><input type="radio"/> Usual residence elsewhere</p> <p><u>Group quarters</u></p> <p><input type="radio"/> First form</p> <p><input type="radio"/> Continuation</p> <p style="font-size: small;"><i>For a vacant unit, also fill C, D, A, H2 to H8, and H10 to H12</i></p>																						
<p><b>H2.</b> Do you enter your living quarters—</p> <p><input type="radio"/> Directly from the outside or through a common or public hall?</p> <p><input type="radio"/> Through someone else's living quarters?</p>	<p><b>H12.</b> Answer this question if you pay rent for your living quarters.</p> <p>a. If rent is paid by the month—</p> <p>What is the <u>monthly rent</u>?</p> <p>Write amount here → \$ _____ .00 (Nearest dollar)</p> <p>and</p> <p>Fill one circle</p> <p><input type="radio"/> Less than \$30</p> <p><input type="radio"/> \$30 to \$39</p> <p><input type="radio"/> \$40 to \$49</p> <p><input type="radio"/> \$50 to \$59</p> <p><input type="radio"/> \$60 to \$69</p> <p><input type="radio"/> \$70 to \$79</p> <p><input type="radio"/> \$80 to \$89</p> <p><input type="radio"/> \$90 to \$99</p> <p><input type="radio"/> \$100 to \$119</p> <p><input type="radio"/> \$120 to \$149</p> <p><input type="radio"/> \$150 to \$199</p> <p><input type="radio"/> \$200 to \$249</p> <p><input type="radio"/> \$250 to \$299</p> <p><input type="radio"/> \$300 or more</p>	<p><b>C.</b> Vacancy status</p> <p><u>Year round—</u></p> <p><input type="radio"/> For rent</p> <p><input type="radio"/> For sale only</p> <p><input type="radio"/> Rented or sold, not occupied</p> <p><input type="radio"/> Held for occasional use</p> <p><input type="radio"/> Other vacant</p> <p><u>Seasonal</u></p> <p><input type="radio"/> Seasonal</p> <p><input type="radio"/> Migratory</p>																						
<p><b>H3.</b> Do you have <u>complete</u> kitchen facilities? <i>Complete kitchen facilities are a sink with piped water, a range or cook stove, and a refrigerator.</i></p> <p><input type="radio"/> Yes, for this household only</p> <p><input type="radio"/> Yes, but also used by another household</p> <p><input type="radio"/> No complete kitchen facilities for this household</p>	<p>b. If rent is <u>not paid</u> by the month—</p> <p>What is the rent, and what period of time does it cover?</p> <p>\$ _____ .00 per _____</p> <p style="text-align: center;"><i>(Nearest dollar) (Week, half-month, year, etc.)</i></p>	<p><b>D.</b> Months vacant</p> <p><input type="radio"/> Less than 1 month</p> <p><input type="radio"/> 1 up to 2 months</p> <p><input type="radio"/> 2 up to 6 months</p> <p><input type="radio"/> 6 up to 12 months</p> <p><input type="radio"/> 1 year up to 2 years</p> <p><input type="radio"/> 2 years or more</p>																						
<p><b>H4.</b> How many rooms do you have in your living quarters? <i>Do not count bathrooms, porches, balconies, foyers, halls, or half-rooms.</i></p> <p><input type="radio"/> 1 room</p> <p><input type="radio"/> 2 rooms</p> <p><input type="radio"/> 3 rooms</p> <p><input type="radio"/> 4 rooms</p> <p><input type="radio"/> 5 rooms</p> <p><input type="radio"/> 6 rooms</p> <p><input type="radio"/> 7 rooms</p> <p><input type="radio"/> 8 rooms</p> <p><input type="radio"/> 9 rooms or more</p>	<p><b>H5.</b> Is there hot and cold piped water in this building?</p> <p><input type="radio"/> Yes, hot and cold piped water in this building</p> <p><input type="radio"/> No, only cold piped water in this building</p> <p><input type="radio"/> No piped water in this building</p>	<p><b>C/O</b> <input type="radio"/> <input type="radio"/></p>																						
<p><b>H5.</b> Is there hot and cold piped water in this building?</p> <p><input type="radio"/> Yes, hot and cold piped water in this building</p> <p><input type="radio"/> No, only cold piped water in this building</p> <p><input type="radio"/> No piped water in this building</p>	<p><b>H6.</b> Do you have a flush toilet?</p> <p><input type="radio"/> Yes, for this household only</p> <p><input type="radio"/> Yes, but also used by another household</p> <p><input type="radio"/> No flush toilet</p>																							
<p><b>H6.</b> Do you have a flush toilet?</p> <p><input type="radio"/> Yes, for this household only</p> <p><input type="radio"/> Yes, but also used by another household</p> <p><input type="radio"/> No flush toilet</p>	<p><b>H7.</b> Do you have a bathtub or shower?</p> <p><input type="radio"/> Yes, for this household only</p> <p><input type="radio"/> Yes, but also used by another household</p> <p><input type="radio"/> No bathtub or shower</p>																							
<p><b>H7.</b> Do you have a bathtub or shower?</p> <p><input type="radio"/> Yes, for this household only</p> <p><input type="radio"/> Yes, but also used by another household</p> <p><input type="radio"/> No bathtub or shower</p>	<p><b>H8.</b> Is there a basement in this building?</p> <p><input type="radio"/> Yes</p> <p><input type="radio"/> No, built on a concrete slab</p> <p><input type="radio"/> No, built in another way (include mobile homes and trailers)</p>																							

APPENDIX B—Continued

FACSIMILES OF THE HOUSING PAGES IN THE 1970 CENSUS QUESTIONNAIRES  
(Percent indicates sample size)

<p><b>H13.</b> Answer question H13 if you pay rent for your living quarters. In addition to the rent entered in H12, do you also pay for—</p> <p><b>a. Electricity?</b>  <input type="radio"/> Yes, average monthly cost is → \$ _____ .00  <i>Average monthly cost</i>  <input type="radio"/> No, included in rent  <input type="radio"/> No, electricity not used</p> <p><b>b. Gas?</b>  <input type="radio"/> Yes, average monthly cost is → \$ _____ .00  <i>Average monthly cost</i>  <input type="radio"/> No, included in rent  <input type="radio"/> No, gas not used</p> <p><b>c. Water?</b> <input checked="" type="checkbox"/>  <input type="radio"/> Yes, yearly cost is → \$ _____ .00  <i>Yearly cost</i>  <input type="radio"/> No, included in rent or no charge</p> <p><b>d. Oil, coal, kerosene, wood, etc.?</b>  <input type="radio"/> Yes, yearly cost is → \$ _____ .00  <i>Yearly cost</i>  <input type="radio"/> No, included in rent  <input type="radio"/> No, these fuels not used</p>	<p><b>H19.</b> Do you get water from—</p> <p><input type="radio"/> A public system (city water department, etc.) or private company?  <input type="radio"/> An individual well?  <input type="radio"/> Some other source (a spring, creek, river, cistern, etc.)?  <input checked="" type="checkbox"/></p>
<p><b>H14.</b> How are your living quarters heated? Fill <u>one</u> circle for the kind of heat you use most.</p> <p><input type="radio"/> Steam or hot water system  <input type="radio"/> Central warm air furnace with ducts to the individual rooms, or central heat pump  <input type="radio"/> Built-in electric units (permanently installed in wall, ceiling, or baseboard) <input checked="" type="checkbox"/>  <input type="radio"/> Floor, wall, or pipeless furnace  <input type="radio"/> Room heaters with flue or vent, burning gas, oil, or kerosene  <input type="radio"/> Room heaters without flue or vent, burning gas, oil, or kerosene (not portable)  <input type="radio"/> Fireplaces, stoves, or portable room heaters of any kind  <input type="radio"/> In some other way—Describe → _____  <input type="radio"/> None, unit has no heating equipment</p>	<p><b>H20.</b> Is this building connected to a public sewer?</p> <p><input type="radio"/> Yes, connected to public sewer  <input type="radio"/> No, connected to septic tank or cesspool  <input type="radio"/> No, use other means</p>
<p><b>H15.</b> About when was this building originally built? Mark when the building was first constructed, not when it was remodeled, added to, or converted.</p> <p><input type="radio"/> 1969 or 1970      <input type="radio"/> 1950 to 1959  <input type="radio"/> 1965 to 1968      <input checked="" type="radio"/> 1940 to 1949  <input type="radio"/> 1960 to 1964      <input type="radio"/> 1939 or earlier</p>	<p><b>H21.</b> How many bathrooms do you have? A complete bathroom is a room with flush toilet, bathtub or shower, and wash basin with piped water. A half bathroom has at least a flush toilet or bathtub or shower, but does <u>not</u> have all the facilities for a complete bathroom.</p> <p><input type="radio"/> No bathroom, or only a half bathroom  <input type="radio"/> 1 complete bathroom  <input type="radio"/> 1 complete bathroom, plus half bath(s)  <input type="radio"/> 2 complete bathrooms  <input type="radio"/> 2 complete bathrooms, plus half bath(s)  <input type="radio"/> 3 or more complete bathrooms  <input checked="" type="checkbox"/></p>
<p><b>H16.</b> Which best describes this building? Include all apartments, flats, etc., even if vacant.</p> <p><input type="radio"/> A one-family house detached from any other house  <input type="radio"/> A one-family house attached to one or more houses  <input type="radio"/> A building for 2 families  <input type="radio"/> A building for 3 or 4 families  <input type="radio"/> A building for 5 to 9 families  <input checked="" type="radio"/> A building for 10 to 19 families  <input type="radio"/> A building for 20 to 49 families  <input type="radio"/> A building for 50 or more families  <input type="radio"/> A mobile home or trailer      Other—      Describe _____</p>	<p><b>H22.</b> Do you have air-conditioning?</p> <p><input type="radio"/> Yes, 1 individual room unit  <input type="radio"/> Yes, 2 or more individual room units  <input type="radio"/> Yes, a central air-conditioning system  <input type="radio"/> No</p>
<p><b>H17.</b> Is this building—</p> <p><input type="radio"/> On a city or suburban lot?— Skip to H19  <input type="radio"/> On a place of less than 10 acres?  <input type="radio"/> On a place of 10 acres or more?</p>	<p><b>H23.</b> How many passenger automobiles are owned or regularly used by members of your household? Count company cars kept at home.</p> <p><input type="radio"/> None  <input type="radio"/> 1 automobile  <input type="radio"/> 2 automobiles  <input type="radio"/> 3 automobiles or more  <input checked="" type="checkbox"/></p>
<p><b>H18.</b> Last year, 1969, did sales of crops, livestock, and other farm products from this place amount to—</p> <p><input type="radio"/> Less than \$50 (or None)      <input checked="" type="radio"/> \$2,500 to \$4,999  <input type="radio"/> \$50 to \$249      <input type="radio"/> \$5,000 to \$9,999  <input type="radio"/> \$250 to \$2,499      <input type="radio"/> \$10,000 or more</p>	

15 and 5 percent

15 percent

APPENDIX B—Continued

FACSIMILES OF THE HOUSING PAGES IN THE 1970 CENSUS QUESTIONNAIRES  
(Percent indicates sample size)

<p><b>H13.</b> Answer question H13 if you pay rent for your living quarters. In addition to the rent entered in H12, do you also pay for—</p> <p>a. Electricity?  <input type="radio"/> Yes, average monthly cost is → \$ _____ .00                  Average monthly cost  <input type="radio"/> No, included in rent  <input type="radio"/> No, electricity not used</p> <p>b. Gas?  <input type="radio"/> Yes, average monthly cost is → \$ _____ .00                  Average monthly cost  <input type="radio"/> No, included in rent  <input type="radio"/> No, gas not used</p> <p>c. Water?  <input checked="" type="radio"/> Yes, yearly cost is → \$ _____ .00                  Yearly cost  <input type="radio"/> No, included in rent or no charge</p> <p>d. Oil, coal, kerosene, wood, etc.?  <input type="radio"/> Yes, yearly cost is → \$ _____ .00                  Yearly cost  <input type="radio"/> No, included in rent  <input type="radio"/> No, these fuels not used</p>	<p><b>H24a.</b> How many stories (floors) are in this building?  <input type="radio"/> 1 to 3 stories  <input type="radio"/> 4 to 6 stories  <input type="radio"/> 7 to 12 stories  <input checked="" type="radio"/> 13 stories or more</p> <p><b>b.</b> If 4 or more stories— Is there a passenger elevator in this building?  <input type="radio"/> Yes <input type="radio"/> No</p>
<p><b>H14.</b> How are your living quarters heated? Fill one circle for the kind of heat you use most.</p> <p><input type="radio"/> Steam or hot water system  <input type="radio"/> Central warm air furnace with ducts to the individual rooms, or central heat pump  <input checked="" type="radio"/> Built-in electric units (permanently installed in wall, ceiling, or baseboard)  <input type="radio"/> Floor, wall, or pipeless furnace  <input type="radio"/> Room heaters with flue or vent, burning gas, oil, or kerosene  <input type="radio"/> Room heaters without flue or vent, burning gas, oil, or kerosene (not portable)  <input type="radio"/> Fireplaces, stoves, or portable room heaters of any kind                  In some other way—Describe → _____  <input type="radio"/> None, unit has no heating equipment</p>	<p><b>H25a.</b> Which fuel is used most for cooking?  <input checked="" type="radio"/> From underground pipes serving the neighborhood.  <input type="radio"/> Bottled, tank, or LP  <input type="radio"/> Electricity  <input type="radio"/> Fuel oil, kerosene, etc.</p> <p><input type="radio"/> Coal or coke  <input type="radio"/> Wood  <input type="radio"/> Other fuel  <input type="radio"/> No fuel used</p> <p><b>b.</b> Which fuel is used most for house heating?  <input checked="" type="radio"/> From underground pipes serving the neighborhood.  <input type="radio"/> Bottled, tank, or LP  <input type="radio"/> Electricity  <input type="radio"/> Fuel oil, kerosene, etc.</p> <p><input type="radio"/> Coal or coke  <input type="radio"/> Wood  <input type="radio"/> Other fuel  <input type="radio"/> No fuel used</p> <p><b>c.</b> Which fuel is used most for water heating?  <input checked="" type="radio"/> From underground pipes serving the neighborhood.  <input type="radio"/> Bottled, tank, or LP  <input type="radio"/> Electricity  <input type="radio"/> Fuel oil, kerosene, etc.</p> <p><input type="radio"/> Coal or coke  <input type="radio"/> Wood  <input type="radio"/> Other fuel  <input type="radio"/> No fuel used</p>
<p><b>H15.</b> About when was this building originally built? Mark when the building was first constructed, not when it was remodeled, added to, or converted.</p> <p><input type="radio"/> 1969 or 1970  <input type="radio"/> 1965 to 1968  <input type="radio"/> 1960 to 1964  <input checked="" type="radio"/> 1950 to 1959  <input type="radio"/> 1940 to 1949  <input type="radio"/> 1939 or earlier</p>	<p><b>H26.</b> How many bedrooms do you have? Count rooms used mainly for sleeping even if used also for other purposes.</p> <p><input type="radio"/> No bedroom  <input type="radio"/> 1 bedroom  <input checked="" type="radio"/> 2 bedrooms  <input type="radio"/> 3 bedrooms  <input type="radio"/> 4 bedrooms  <input type="radio"/> 5 bedrooms or more</p>
<p><b>H16.</b> Which best describes this building? Include all apartments, flats, etc., even if vacant.</p> <p><input type="radio"/> A one-family house detached from any other house  <input type="radio"/> A one-family house attached to one or more houses  <input type="radio"/> A building for 2 families  <input type="radio"/> A building for 3 or 4 families  <input type="radio"/> A building for 5 to 9 families  <input checked="" type="radio"/> A building for 10 to 19 families  <input type="radio"/> A building for 20 to 49 families  <input type="radio"/> A building for 50 or more families  <input type="radio"/> A mobile home or trailer                  Other— Describe _____</p>	<p><b>H27a.</b> Do you have a clothes washing machine?  <input type="radio"/> Yes, automatic or semi-automatic  <input type="radio"/> Yes, wringer or separate spinner  <input type="radio"/> No</p> <p><b>b.</b> Do you have a clothes dryer?  <input type="radio"/> Yes, electrically heated  <input type="radio"/> Yes, gas heated  <input checked="" type="radio"/> No</p> <p><b>c.</b> Do you have a dishwasher (built-in or portable)?  <input type="radio"/> Yes <input type="radio"/> No</p> <p><b>d.</b> Do you have a home food freezer which is separate from your refrigerator?  <input type="radio"/> Yes <input type="radio"/> No</p>
<p><b>H17.</b> Is this building—</p> <p><input type="radio"/> On a city or suburban lot?—Skip to H24  <input type="radio"/> On a place of less than 10 acres?  <input type="radio"/> On a place of 10 acres or more?</p>	<p><b>H28a.</b> Do you have a television set? Count only sets in working order.  <input type="radio"/> Yes, one set  <input type="radio"/> Yes, two or more sets  <input type="radio"/> No</p> <p><b>b.</b> If "Yes"—Is any set equipped to receive UHF broadcasts, that is, channels 14 to 83?  <input type="radio"/> Yes <input checked="" type="radio"/> No</p>
<p><b>H18.</b> Last year, 1969, did sales of crops, livestock, and other farm products from this place amount to—</p> <p><input type="radio"/> Less than \$50 (or None)  <input type="radio"/> \$50 to \$249  <input type="radio"/> \$250 to \$2,499  <input checked="" type="radio"/> \$2,500 to \$4,999  <input type="radio"/> \$5,000 to \$9,999  <input type="radio"/> \$10,000 or more</p>	<p><b>H29.</b> Do you have a battery-operated radio? Count car radios, transistors, and other battery-operated sets in working order or needing only a new battery for operation.  <input type="radio"/> Yes, one or more <input type="radio"/> No</p> <p><b>H30.</b> Do you (or any member of your household) own a second home or other living quarters which you occupy sometime during the year?  <input type="radio"/> Yes <input type="radio"/> No</p>

15 and 5 percent

5 percent

## APPENDIX B—Continued

### FACSIMILE OF THE RESPONDENT INSTRUCTIONS FOR THE HOUSING QUESTIONS IN THE 1970 CENSUS

If you live in an apartment building and you do not know the answers to questions H14, H15, H16, and H25, ask the person who runs your building (for example, the manager, rental agent, superintendent, janitor, etc.).

- A. Mark only one circle. This address means the house or building number where your living quarters are located.
- H1. Mark Yes and enter telephone number, even if the telephone is in another apartment or building.
- H2. Mark the second circle only if you must go through someone else's living quarters to get to your own.
- H3. The kitchen sink, stove, and refrigerator do not have to be in the same room.  
Also used by another household means that someone else who lives in the same building, but is not a member of your household, also uses the equipment. Mark this circle also if the occupants of living quarters now vacant would also use the equipment.
- H4. Count only whole rooms used for living purposes, such as living rooms, dining rooms, kitchens, bedrooms, finished recreation rooms, family rooms, etc. Do not count kitchenettes, strip or pullman kitchens; utility rooms; or unfinished attics, basements, or other space used for storage.
- H5. Mark hot water even if you have it only part of the time.
- H6, H7. See instructions for H3 for meaning of Also used by another household.
- H8. A house has a basement if there is enclosed space in which persons can walk upright under all or part of the building. A house on a concrete slab has no basement and no air or crawl space below it. A house built in another way is one directly on the ground or resting on a foundation or posts to provide crawl space.
- H9. Owned or being bought means that the living quarters are owned outright or are mortgaged. Also mark Owned or being bought if the living quarters are owned but the land is rented.  
Mark Rented for cash rent if any money rent is paid. Rent may be paid by persons who are not members of your household.  
Occupied without payment of cash rent includes, for example, a parsonage, a house or apartment provided free of rent by the owner, or a house or apartment occupied by a janitor or caretaker in exchange for services.
- H10. A commercial establishment is easily recognized from the outside; for example, a grocery store or barber shop. A medical office is a doctor's or dentist's office regularly visited by patients. If your house is on a place of 10 acres or more and also contains a commercial establishment or medical office, mark Yes, 10 acres or more.
- H11. Include the value of the house, the land it is on, and any other structures on the same property. If the house is owned but the land is rented, estimate the combined value of the house and the land.
- H12. Report the rent agreed to or contracted for, even if the furnishings, utilities, or services are included.  
a. If you pay rent by the month, write in the amount of rent and fill one circle.  
b. If rent is not paid by the month, answer both parts of b. For example, \$20 per week, \$1,500 per year, etc.
- H13. If exact costs are not known, estimate as closely as possible. Report amounts even if bills are unpaid or are paid by someone else. If the bills include utilities or fuel used also by another apartment or a business establishment, estimate the amounts for your own living quarters. If gas and electricity are billed together, enter the combined amount on the electricity line and bracket ( ) the two utilities.
- H14. This question refers to the type of heating equipment and not to the fuel used.  
A heat pump is sometimes known as a reverse cycle system.  
A floor, wall, or pipeless furnace delivers warm air to the room right above the furnace or to the room(s) on one or both sides of the wall in which the furnace is installed. These furnaces do not have ducts leading to other rooms.  
Any heater that you plug into an electric outlet should be counted as a portable room heater—not a built-in electric unit.
- H16. Count all occupied and vacant living quarters in the house or building, but not stores or office space.  
Detached means there is open space on all sides, or the house is joined only to a shed or garage. Attached means that the house is joined to another house or building by at least one wall which goes from ground to roof.
- H17. A city or suburban lot is usually located in a city, a community, or any built-up area outside a city or community, and is not larger than the house and yard. All living quarters in apartment buildings, including garden-type apartments in the city or suburbs, are considered on a city or suburban lot.  
A place is a farm, ranch, or any other property, other than a city or suburban lot, on which this residence is located.
- H18. Fill the circle for the total (gross) amount of money received from the sales of crops, livestock, and other farm products produced on this place during the calendar year 1969.
- H19. If a well provides water for six or more houses or apartments, mark a public system. If a well provides water for five or fewer houses or apartments, mark an individual well.
- H20. A public sewer is operated by a government body or a private organization. A septic tank or cesspool is an underground tank or pit used for disposal of sewage.
- H22. Count only equipment with a refrigeration unit to cool the air. Mark an individual room unit for air conditioners which are installed in a window or in an outside wall and are used to cool one or more rooms. Mark a central system for a central installation which cools the entire house or apartment.
- H23. Do not count cars permanently out of working order. Also do not count taxicabs, pickups, or larger trucks.
- H24a. Do not count a basement as a story.  
b. Do not count elevators used only for freight.
- H25. Gas from underground pipes is piped in from a central system such as a public utility company or a municipal government. Bottled, tank, or LP gas is stored in tanks which are refilled or exchanged when empty. Other fuel includes any fuel not separately listed, for example, purchased steam, fuel briquettes, waste material, etc.
- H27. Mark the Yes circle whether you own the appliance or it is provided as part of the equipment in your living quarters. Do not count coin-operated equipment or appliances in storage.
- H28. Count any set equipped to receive UHF (ultra high frequency) broadcasts, even if there are no such broadcasts in your area. Include sets that can be tuned directly to channels 14 to 83 and sets that receive UHF broadcasts by means of a converter. Also include sets that receive UHF broadcasts through a community antenna (CATV) or master antenna.
- H29. A battery-operated radio is one that can be run on batteries and does not need to be plugged into an electric socket. Include battery-operated sets owned by any member of the household.
- H30. Do not count vacation trailers, tents, or boats. Also do not count second homes used only for investment purposes.

## Appendix C.—ACCURACY OF THE DATA

SOURCES OF ERROR.....	App-14
EDITING OF UNACCEPTABLE DATA .....	App-14
SAMPLE DESIGN .....	App-14
RATIO ESTIMATION .....	App-15
SAMPLING VARIABILITY .....	App-16

### SOURCES OF ERROR

Human and mechanical errors occur in any mass statistical operation such as a decennial census. Errors during the data collection phase can include failure to obtain required information from respondents, obtaining incorrect or inconsistent information, and recording information in the wrong place or incorrectly. Errors can also occur during the field review of the enumerator's work, the clerical handling of the questionnaires, the manual editing and coding operations, and the various stages of the electronic processing of the material. Careful efforts are made in every census to keep the errors in each step at an acceptably low level. Quality control and check measures are utilized throughout the census operation. As was done for the 1950 and 1960 censuses, evaluative material on many aspects of the 1970 census will be published as soon as the appropriate data are accumulated and analyzed. A major concern in the evaluation work is to ascertain, insofar as possible, the degree of completeness of the count of both population and housing units.

### EDITING OF UNACCEPTABLE DATA

The objective of the processing operation is to produce a set of statistics that describes the Nation's housing as accurately and clearly as possible. To meet this objective, certain unacceptable entries were edited.

Whenever information was missing, an allocation procedure was used to assign an entry, thereby eliminating the need for a "not reported" category in the tabulations. The assignment was based on related information reported for the housing unit or on information reported for a similar unit in the immediate neighborhood. For example, if tenure for an occupied unit was omitted but a rental amount was reported, the computer automatically edited tenure to "rented for cash rent." On the other hand, if the unit was reported as rented but the amount of rent was missing, the computer automatically assigned the rent that was reported for the preceding renter-occupied unit.

A similar procedure was used when the information reported for an item was inconsistent with other information reported for the unit. For example, if a housing unit was enumerated as having no piped water but having both a bathtub (or shower) and flush toilet for the exclusive use of the occupants of the unit, the computer edited water supply to "hot and cold water," a category considered to be consistent with the reported bathing and toilet facilities.

Specific tolerances were established for the number of computer allocations that would be permitted. If the number of corrections was beyond tolerance, the questionnaires in which the errors occurred were clerically reviewed. If it was found that the errors resulted from damaged questionnaires, from improper micro-filming, from faulty reading by FOSDIC of undamaged questionnaires, or from other types of machine failure, the questionnaires were reprocessed.

The extent of allocations for non-responses and inconsistencies is given

for SMSA's and places in the allocation tables in the 1970 Population Census PC(1)-B and PC(1)-C reports, and in the Housing Census HC(1)-A and HC(1)-B reports.

### SAMPLE DESIGN

For sample data collected in the 1970 census, the housing unit, including all its occupants, was the sampling unit; for persons in group quarters identified in advance of the census, it was the person. In non-mail areas, the enumerator canvassed his assigned area and listed all housing units in an address register sequentially in the order in which he first visited the units, whether or not he completed the interview. Every fifth line of the address register was designated as a sample line, and the housing units listed on these lines were included in the sample. Each enumerator was given a random line on which he was to start listing and the order of canvassing was indicated in advance, although the instructions allowed some latitude in the order of visiting addresses. In mail areas, the list of housing units was prepared prior to Census Day either by employing commercial mailing lists corrected through the cooperation of the post office or by listing the units in a process similar to that used in non-mail areas. As in other areas, every fifth housing unit on these lists was designated to be in the sample. In group quarters, all persons were listed and every fifth person was selected for the sample; as indicated in Appendix B, information on the housing characteristics of group quarters was not collected in the census.

This 20-percent sample was subdivided into a 15-percent and a 5-percent sample by designating every fourth 20-percent sample unit as a

member of the 5-percent sample. The remaining sample units became the 15-percent sample. Two types of sample questionnaires were used, one for the 5-percent and one for the 15-percent sample units. Some questions were included on both the 5-percent and 15-percent sample forms and therefore appear for a sample of 20 percent of the units in the census. Other items appeared on either the 15-percent or the 5-percent questionnaires. The sample rates for the various items appearing in this report are shown in table A.

Although the sampling procedure did not automatically insure an exact 20-percent sample of persons or housing units in each locality, the sample design was unbiased if carried through according to instructions; generally for larger areas the deviation from 20 percent was found to be quite small. Biases may have arisen, however, when the enumerator failed to follow his listing and sampling instructions exactly. Quality control procedures were used throughout the census process, and where there was clear evidence that the sampling proce-

dures were not properly followed, some enumerators' assignments were returned to the field for resampling. Estimates for the United States as a whole indicate that 19.6 percent of the total population and 19.7 percent of the total housing units were enumerated on sample questionnaires. The computation of these proportions excluded several classes of the population and housing units for which no attempt at sampling was made. These were the relatively small numbers of persons and housing units (in most States, less than one percent) added to the enumeration from the post-census post office check, the various supplemental forms, and the special check of vacant units. However, the ratio estimation procedure described below adjusts the sample data to reflect these classes of population and housing units.

TABLE A. Sample Rate for Subjects Included in This Report

Subject	Sample rate (percent)	Subject	Sample rate (percent)
<b>OCCUPANCY CHARACTERISTICS</b>		<b>EQUIPMENT AND APPLIANCES</b>	
Occupied housing units . . . . .	20	Heating equipment . . . . .	20
Tenure . . . . .	20	Air conditioning . . . . .	15
Race . . . . .	20	Automobiles available . . . . .	15
Spanish heritage . . . . .	15	Second home . . . . .	5
Year moved into unit . . . . .	15	Clothes washing machine . . . . .	5
		Clothes dryer . . . . .	5
		Dishwasher . . . . .	5
		Home food freezer . . . . .	5
<b>VACANCY CHARACTERISTICS</b>		<b>FINANCIAL CHARACTERISTICS</b>	
Vacant for sale . . . . .	20	Value . . . . .	20
Vacant for rent . . . . .	20	Sales price asked . . . . .	20
Duration of vacancy . . . . .	20	Gross rent . . . . .	20
		Rent asked . . . . .	20
		Inclusion of utilities	
		in rent . . . . .	20
		Value-income ratio . . . . .	20
		Gross rent as percentage	
		of income . . . . .	20
<b>UTILIZATION CHARACTERISTICS</b>		<b>HOUSEHOLD CHARACTERISTICS</b>	
Number of rooms . . . . .	20	Household composition . . . . .	20
Size of household (persons) . . . . .	20	Income . . . . .	20
Persons per room . . . . .	20		
Bedrooms . . . . .	5		
<b>PLUMBING CHARACTERISTICS</b>			
Plumbing facilities . . . . .	20		
Complete bathrooms . . . . .	15		
<b>STRUCTURAL CHARACTERISTICS</b>			
Complete kitchen			
facilities . . . . .	20		
Access . . . . .	20		
Units in structure . . . . .	20		
Mobile home or trailer . . . . .	20		
Year structure built . . . . .	20		
Elevator in structure . . . . .	5		

**RATIO ESTIMATION**

The statistics based on 1970 census sample data are estimates made through the use of ratio estimation procedures which were applied separately for the 5-, 15-, and 20-percent samples. The first step in carrying through the ratio estimates was to establish the areas within which separate ratios were to be prepared. These are referred to as "weighting areas." For the 15- and 20-percent samples the weighting areas contained a minimum population size of 2,500. The weighting areas used for the 5-percent ratio estimate were larger areas having a minimum population size of 25,000 and comprising combinations of the weighting areas used for the 15- and 20-percent samples. Weighting areas were established by a mechanical operation on the computer and were defined to conform, as nearly as possible, to areas for which tabulations are produced. Where these areas do

not agree (primarily for smaller areas), there may be some differences between complete counts and sample estimates.

The ratio estimation process operated in two stages for occupied housing units, and in one stage for vacant units. The first stage for occupied units employed 18 household-type groups (the first of which was empty by definition); the second stage for occupied units used four groups: owner- and renter-occupied units, by race. The single stage for vacant units employed three groups: year-round vacant for sale, year-round vacant for rent, and other vacant.

Group

Occupied housing units:

STAGE I

	<i>Male Head With Own Children Under 18</i>
1	1-person household
2	2-person household
3	3-person household
.	.
.	.
6	6-or-more-person household

*Male Head Without Own Children Under 18*

7-12	1-person to 6-or-more-person households
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*Female Head*

13-18	1-person to 6-or-more-person households
-------	---

STAGE II

*Owner Occupied*

19	Negro
20	Not Negro

*Renter Occupied*

21	Negro
22	Not Negro

Vacant housing units:

23	Year-round vacant for sale
24	Year-round vacant for rent
25	Other vacant

At each stage, for each of the occupied housing groups, the ratio of the complete count to the weighted sample count of the housing units in the group was computed and applied to the weight of each sample unit in the group. This operation was performed for each of the 18 groups in the first stage, then for the four groups in the second stage. As a rule, the weighted sample counts within each of the 4 groups in the second stage for occupied units should agree with the complete counts for the weighting areas (close, although not exact consistency can be expected for the 18 groups in the first stage). Similarly, the weighted sample counts within each of the 3 groups in the single stage for vacant housing units should agree with the complete counts for the weighting area.

There are some exceptions to this general rule, however. As indicated above, there may be differences between the complete counts and sample estimates when the tabulation area is not made up of whole weighting areas. Furthermore, in order to increase the reliability, a separate ratio was not computed in a group whenever certain criteria pertaining to the complete count of housing units and the magnitude of the weight were not met. For example, for the 20-percent sample the complete count of units in a group had to exceed 70 units and the ratio of the complete count to the unweighted sample count could not exceed 20. Where these criteria were not met, groups were combined in a specific order until the conditions were met. Where this occurred, con-

sistency between the weighted sample and the complete counts would apply as indicated above for the combined group but not necessarily for each of the groups in the combination.

Each sample housing unit was assigned an integral weight to avoid the complications involved in rounding in the final tables. If, for example, the final weight for a group was 5.2, one-fifth of the units in the group (selected at random) were assigned a weight of 6 and the remaining four-fifths a weight of 5.

The estimates realize some of the gains in sampling efficiency that would have resulted had the population been stratified into the groups before sampling. The net effect is a reduction in both the sampling error and possible bias of most statistics below what would be obtained by weighting the results of the sample by a uniform factor (e.g., by weighting the 20-percent sample results by a uniform factor of 5). The reduction in sampling error will be trivial for some items and substantial for others. A by-product of this estimation procedure is that estimates for this sample are, in general, consistent with the complete count for the housing unit groups used in the estimation procedure. A more complete discussion of the technical aspects of these ratio estimates will be presented in a separate report.

SAMPLING VARIABILITY

The estimates from the 20-, 15-, and 5-percent sample tabulations are subject to sampling variability. The standard errors of these estimates can be approximated by using the data in tables B through D. The chances are about 2 out of 3 that the difference (due to sampling variability) between the sample estimate and the figure that would have been obtained from a

complete count is less than the standard error. The chances are about 19 out of 20 that the difference is less than twice the standard error and about 99 out of 100 that it is less than  $2\frac{1}{2}$  times the standard error. The amount by which the estimated standard error must be multiplied to obtain other odds deemed more appropriate can be found in most statistical textbooks. The sampling errors may be obtained by using the factors shown in table D in conjunction with table B for absolute numbers and in conjunction with table C for percentages. These tables reflect the effect of simple response variance, but not of bias arising in the collection, processing and estimation steps nor of the correlated errors enumerators introduce; estimates of the magnitude of some of these factors in the total error are being evaluated and will be published at a later date.

Table B shows approximate standard errors of estimated numbers for most statistics based on the 20-percent sample. In determining the figures for this table, some aspects of the sample design, the estimation process, and the size of the area over which the data have been compiled are ignored. Table C shows standard errors of most percentages based on the 20-percent sample. Linear interpolation in tables B and C will provide approximate results that are satisfactory for most purposes. Table D provides a factor by which the standard errors shown in tables B or C should be multiplied to adjust for the effect of the sample size (i.e., whether a 15-percent or 5-percent sample) and the effect of the estimation procedure.

To estimate the standard error for a given characteristic, locate the factor in table D for the appropriate characteristic and the sample size used to tabulate the data, and multiply this

factor by the standard error found in table B or C. Where data are shown as cross-classifications of two characteristics, locate and use the larger factor. Similarly, if an item, although collected on one sample basis, has been tabulated for a smaller sample, use the factor appropriate for the smaller sample.

The standard errors estimated from these tables are not directly applicable to differences between two sample estimates. In order to estimate the standard error of a difference, the tables are to be used somewhat differently in the three following situations:

1. For a difference between the sample figure and one based on a complete count (e.g., arising from comparisons between sample statistics for 1970 and complete-count statistics for 1960 or 1950), the standard error is identical with the standard error of the 1970 estimate alone.
2. For a difference between two sample figures (that is, one from 1970 and the other from 1960, or both from the same census year), the standard error is approximately the square root of the sum of the squares of the standard errors of each estimate considered separately. This formula will represent the actual standard error quite accurately for the difference between estimates of the same characteristics in two different areas, or for the difference between separate and uncorrelated characteristics in the same area. If, however, there is a high positive correlation between the two characteristics, the formula will overestimate the true standard error. The approximate standard error for the 1970 sample figure is derived directly from tables B

through D. The standard error of a 1960 sample figure may be obtained from the relevant 1960 census report.

3. For a difference between two sample estimates, one of which represents a subclass of the other, the tables can be used directly with the difference considered as the sample estimate.

The sampling variability of the medians presented in certain tables (median rooms, median value, median gross rent, etc.) depends on the size of the base and on the distribution on which the median is based. An approximate method for measuring the reliability of an estimated median is to determine an interval about the estimated median such that there is a stated degree of confidence the true median lies within the interval. As the first step in estimating the upper and lower limits of the interval (that is, the confidence limits) about the median, compute one-half the number on which the median is based (designated  $N/2$ ). From table B, following the method outlined in other parts of this section, compute the standard error of an estimated number equal to  $N/2$ . Subtract this standard error from  $N/2$ . Cumulate the frequencies (in the table on which the median is based) until the total first exceeds the difference between  $N/2$  and its standard error, and by linear interpolation obtain a value corresponding to this number. In a corresponding manner, add the standard error to  $N/2$ , cumulate the frequencies in the table, and obtain a value in the table on which the median is based corresponding to the sum of  $N/2$  and its standard error.

The chances are about 2 out of 3 that the median would lie between these two values. The range for 19 chances out of 20 and for 99 in 100

can be computed in a similar manner by multiplying the standard error by the appropriate factors before sub-

tracting from and adding to one-half the number reporting the characteristics. Interpolation to obtain the

values corresponding to these numbers gives the confidence limits for the median.

**TABLE B. Approximate Standard Error of Estimated Number Based on 20-Percent Sample**

(Range of 2 chances out of 3; for factors to be applied see table D and text)

Estimated number <sup>1</sup>	Number of housing units in area <sup>2</sup>						
	10,000	25,000	100,000	250,000	1,000,000	2,500,000	4,000,000
50 .....	15	15	15	15	15	15	15
100 .....	20	20	20	20	20	20	20
250 .....	30	30	30	30	30	30	30
500 .....	45	45	45	45	45	45	45
1,000 .....	60	60	65	65	65	65	65
2,500 .....	90	95	100	100	100	100	100
5,000 .....	100	130	140	140	140	140	140
10,000 .....	...	150	190	200	200	200	200
15,000 .....	...	150	230	240	240	240	240
25,000 .....	...	...	270	300	310	310	320
50,000 .....	...	...	320	400	440	440	440
75,000 .....	...	...	270	450	520	540	540
100,000 .....	...	...	...	490	600	620	630

<sup>1</sup>For estimated numbers larger than 100,000, the relative errors are somewhat smaller than for 100,000.

<sup>2</sup>An area is the smallest complete geographic area to which the estimate under consideration pertains. Thus, the area may be the standard, metropolitan statistical area or the place. Housing units with Negro heads of household or Spanish heritage heads of household do not represent complete areas.

**TABLE C. Approximate Standard Error of Estimated Percentage Based on 20-Percent Sample**

(Range of 2 chances out of 3; for factors to be applied see table D and text)

Estimated percentage	Base of percentage						
	500	1,000	2,500	10,000	25,000	100,000	250,000
2 or 98 .....	1.3	0.9	0.6	0.3	0.2	0.1	0.1
5 or 95 .....	2.0	1.4	0.9	0.4	0.3	0.1	0.1
10 or 90 .....	2.7	1.9	1.2	0.6	0.4	0.2	0.1
25 or 75 .....	3.9	2.7	1.7	0.9	0.5	0.3	0.2
50 .....	4.5	3.2	2.0	1.0	0.6	0.3	0.2

TABLE D. Factor to be Applied to Standard Errors

Characteristic <sup>1</sup>	Factor if sample rate is—			Characteristic <sup>1</sup>	Factor if sample rate is—		
	20 percent	15 percent	5 percent		20 percent	15 percent	5 percent
<b>OCCUPANCY AND VACANCY CHARACTERISTICS</b>				<b>EQUIPMENT, FUELS, AND APPLIANCES</b>			
Year moved into unit .....	...	1.1	...	Heating equipment .....	0.8	0.9	...
Duration of vacancy .....	0.8	...	1.7	Air conditioning .....	...	1.1	...
<b>UTILIZATION CHARACTERISTICS</b>				Automobiles available .....	...	1.0	...
Rooms .....	1.0	1.1	2.1	Appliances .....	...	...	1.9
Size of household (persons) .....	0.5	0.6	1.2	<b>FINANCIAL CHARACTERISTICS</b>			
Persons per room .....	0.4	0.5	0.9	Value .....	1.0	1.1	2.1
Bedrooms .....	...	...	2.1	Value-income ratio .....	1.0	1.2	...
<b>PLUMBING CHARACTERISTICS</b>				Gross rent .....	0.9	1.1	2.1
Complete bathrooms .....	...	1.1	...	Gross rent as percentage of income	1.0	1.2	...
Plumbing facilities .....	1.0	...	...	Sales price asked .....	1.1	...	2.5
<b>STRUCTURAL CHARACTERISTICS</b>				Rent asked .....	1.1	...	2.5
Units in structure .....	0.8	0.9	1.7	<b>HOUSEHOLD CHARACTERISTICS</b>			
Year structure built .....	0.9	1.0	...	Household composition .....	0.6	0.7	...
				Income in 1969 .....	1.0	1.2	2.3
				<b>ALL OTHERS</b> .....	1.0	1.2	2.2

<sup>1</sup>Tabulations of housing data for households with heads of Spanish heritage are based on the 15-percent sample. For characteristics of households with heads of Spanish heritage (tables 19 to 26), use the factors given for the 15-percent sample.

NOTE: In this report an item collected for the 20-percent sample may be cross-tabulated with other items based on the 15-percent or 5-percent samples. In such cases, locate the factor for both items in Table D for the smaller sample size. Use the larger of the two factors. For example, in Table 9, duration of vacancy (a 20-percent item) is cross-tabulated by number of bedrooms (a 5-percent item). The factor for duration of vacancy based on a 5-percent sample is 1.7 and for bedrooms it is 2.1. The factor of 2.1 should be used to adjust the standard errors since it is the larger of the two factors based on the 5-percent sample.

## Appendix D.—PUBLICATION AND COMPUTER SUMMARY TAPE PROGRAM

The results of the 1970 Census of Population and Housing are being issued in the form of printed reports, microfiche copies of the printed reports, computer summary tapes, computer printouts, and microfilm. Listed below are short descriptions of the final report series and computer tapes, as currently planned. More detailed information on this program can be obtained by writing to the Publications Distribution Section, Bureau of the Census, Washington, D.C. 20233.

### Housing Census Reports

#### Volume I.

##### HOUSING CHARACTERISTICS FOR STATES, CITIES, AND COUNTIES

This volume will consist of 58 "parts"—number 1 for the United States, numbers 2 through 52 for the 50 States and the District of Columbia in alphabetical order, and numbers 53 through 58 for Puerto Rico, Guam, Virgin Islands, American Samoa, Canal Zone, and Trust Territory of the Pacific Islands, respectively. Each part, which will be a separate clothbound book, will contain two chapters designated as A and B. Each chapter (for each of the 58 areas) will first be issued as an individual paperbound report in two series designated as HC(1)-A and B, respectively.

##### ■ Series HC(1)-A.

###### GENERAL HOUSING CHARACTERISTICS

Statistics on tenure, kitchen facilities, plumbing facilities, number of rooms, persons per room, units in structure, mobile home, telephone, value, contract rent, and vacancy status are presented for some or all of the following areas: States (by urban and rural residence), standard metropolitan statistical areas (SMSA's), urbanized areas, places of 1,000 inhabitants or more, and counties.

##### ■ Series HC(1)-B.

###### DETAILED HOUSING CHARACTERISTICS

Statistics are presented on a more detailed basis for the subjects included in the Series HC(1)-A reports, as well as on such additional subjects as year moved into unit, year structure built, basement, heating equipment, fuels, air conditioning, water and sewage, appliances, gross rent, and ownership of second home. Each subject is shown for some or all of the following areas: States (by urban, rural-nonfarm, and rural-farm residence), SMSA's, urbanized areas, places of 2,500 inhabitants or more, and counties (by rural and rural-farm residence).

#### Volume II.

##### METROPOLITAN HOUSING CHARACTERISTICS

These reports, also designated as Series HC(2), cover most of the 1970 census housing subjects in considerable detail and cross-classification. There is one report for each SMSA, presenting data for the SMSA and its central cities and places of 50,000 inhabitants or more, as well as a national summary report.

#### Volume III.

##### BLOCK STATISTICS

One report, under the designation Series HC(3), is issued for each urbanized area showing data for individual blocks on selected housing and population subjects. The series also includes reports for the communities outside urbanized areas which have contracted with the Census Bureau to provide block statistics from the 1970 census.

#### Volume IV.

##### COMPONENTS OF INVENTORY CHANGE

This volume will contain data on the disposition of the 1960 inventory and the source of the 1970 inventory, such as new construction, conversions, mergers, demolitions, and other additions and losses. Cross-tabulations of 1970 and 1960 characteristics for units that have not changed and characteristics of the present and previous residence of recent movers will also be provided. Statistics will be shown for 15 selected SMSA's and for the United States and regions.

#### Volume V.

##### RESIDENTIAL FINANCE

This volume will present data regarding the financing of privately owned nonfarm residential properties. Statistics will be shown on amount of outstanding mortgage debt, manner of acquisition of property, home-owner expenses, and other owner, property, and mortgage characteristics for the United States and regions.

#### Volume VI.

##### ESTIMATES OF "SUBSTANDARD" HOUSING

This volume will present counts of "substandard" housing units for counties and cities, based on the number of units lacking plumbing facilities combined with estimates of units with all plumbing facilities but in "dilapidated" condition.

#### Volume VII.

##### SUBJECT REPORTS

Each report in this volume will concentrate on a particular subject. Detailed information and cross-classifications will generally be provided on a national level; in some reports, data for States or SMSA's may also be shown. Among the subjects to be covered are housing characteristics by household composition, housing of minority groups and senior citizens, and households in mobile homes.

### Population Census Reports

#### Volume I.

##### CHARACTERISTICS OF THE POPULATION

This volume will consist of 58 "parts"—number 1 for the United States, numbers 2 through 52 for the 50 States and the District of Columbia in alphabetical order, and numbers 53 through 58 for Puerto Rico, Guam, Virgin Islands, American Samoa, Canal Zone, and Trust Territory of the Pacific Islands, respectively. Each part, which will be a separate clothbound book, will contain four chapters designated as A, B, C, and D. Each chapter (for each of the 58 areas) will first be issued as an individual paperbound report in four series designated as PC(1)-A, B, C, and D, respectively. The 58 PC(1)-A reports will be specially assembled and issued in a clothbound book, designated as Part A.

##### ■ Series PC(1)-A.

###### NUMBER OF INHABITANTS.

Final official population counts are presented for States, counties by urban and rural residence, SMSA's, urbanized areas, county subdivisions, all incorporated places, and unincorporated places of 1,000 inhabitants or more.

##### ■ Series PC(1)-B.

###### GENERAL POPULATION CHARACTERISTICS

Statistics on age, sex, race, marital status, and relationship to head of household are presented for States, counties by urban and rural residence, SMSA's, urbanized areas, county subdivisions, and places of 1,000 inhabitants or more.

##### ■ Series PC(1)-C.

###### GENERAL SOCIAL AND ECONOMIC CHARACTERISTICS

Statistics are presented on nativity and parentage, State or country of birth, Spanish origin, mother tongue, residence 5 years ago, year moved into present house, school enrollment (public or private), years of school completed, vocational training, number of children ever born, family composition, disability, veteran status, employment status, place of work, means of transportation to work, occupation group, industry group, class of worker, and income (by type) in 1969 of families and individuals. Each subject is shown for some or all of the following areas: States, counties (by urban, rural-nonfarm, and rural-farm residence), SMSA's urbanized areas, and places of 2,500 inhabitants or more.

■ Series PC(1)-D.

**DETAILED CHARACTERISTICS**

These reports cover most of the subjects shown in Series PC(1)-C, above, presenting the data in considerable detail and cross-classified by age, race, and other characteristics. Each subject is shown for some or all of the following areas: States (by urban, rural-nonfarm, and rural-farm residence), SMSA's, and large cities.

**Volume II.**

**SUBJECT REPORTS**

Each report in this volume, also designated as Series PC(2), will concentrate on a particular subject. Detailed information and cross-relationships will generally be provided on a national and regional level; in some reports, data for States or SMSA's will also be shown. Among the characteristics to be covered are national origin and race, fertility, families, marital status, migration, education, unemployment, occupation, industry, and income.

**Joint Population-Housing Reports**

Series PHC(1).

**CENSUS TRACT REPORTS**

This series contains one report for each SMSA, showing data for most of the population and housing subjects included in the 1970 census.

Series PHC(2).

**GENERAL DEMOGRAPHIC TRENDS FOR METROPOLITAN AREAS, 1960 TO 1970**

This series consists of one report for each State and the District of Columbia, as well as a national summary report, presenting statistics for the State and for SMSA's and their central cities and constituent counties. Comparative 1960 and 1970 data are shown on population counts by age and race and on such housing subjects as tenure, plumbing facilities, value, and contract rent.

Series PHC(3).

**EMPLOYMENT PROFILES OF SELECTED LOW-INCOME AREAS**

This series consists of approximately 70 reports, each presenting statistics on the social and economic characteristics of the residents of a particular low-income area. The data relate to low-income neighborhoods in 51 cities and seven rural poverty areas. Each report provides statistics on employment and unemployment, education, vocational training, availability for work,

job history, and income, as well as on value or rent and number of rooms in the housing unit.

**Additional Reports**

Series PHC(E).

**EVALUATION REPORTS**

This open series will present the results of the extensive evaluation program conducted as an integral part of the 1970 census program, and relating to such matters as completeness of enumeration and quality of the data on characteristics.

Series PHC(R).

**PROCEDURAL REPORTS**

This open series presents information on various administrative and methodological aspects of the 1970 census, and will include a comprehensive procedural history of the 1970 census. The first report issued focuses on the forms and procedures used in the data collection phase of the census.

**Computer Summary Tapes**

The major portion of the results of the 1970 census is produced in a set of six tabulation counts. To help meet the needs of census users, these counts are being designed to provide data with much greater subject and geographic detail than it is feasible or desirable to publish in printed reports. The data so tabulated are generally available—subject to suppression of certain detail where necessary to protect confidentiality—on magnetic computer tape, printouts, and microfilm, at the cost of preparing the copy.

**First Count**—source of the PC(1)-A reports; contains about 400 cells of data on the subjects covered in the PC(1)-B and HC(1)-A reports and tabulated for each of the approximately 250,000 enumeration districts in the United States.

**Second Count**—source of the PC(1)-B, HC(1)-A, and part of the PHC(1) reports; contains about 3,500 cells of data covering the subjects in these reports and tabulated for the approximately 35,000 tracts and 35,000 county subdivisions in the United States.

**Third Count**—source of the HC(3) reports; contains about 250 cells of data on the subjects covered in the PC(1)-B and HC(1)-A reports and tabulated for approximately 1,500,000 blocks in the United States.

**Fourth Count**—source of the PC(1)-C, HC(1)-B, and part of the PHC(1) reports; contains about 13,000 cells of data covering the subjects in these reports and tabulated for the approximately 35,000 tracts and 35,000 county subdivisions in the United States; also contains about 30,000 cells of data for each county.

**Fifth Count**—contains approximately 800 cells of population and housing data for 5-digit ZIP code areas in SMSA's and 3-digit ZIP code areas outside SMSA's; the ZIP code data are available only on tape.

**Sixth Count**—source of the PC(1)-D and HC(2) reports; contains about 260,000 cells of data covering the subjects in these reports and tabulated for States, SMSA's, and large cities.

The tapes are generally organized on a State basis. To use the First Count and Third Count tapes, it is necessary to purchase the appropriate enumeration district and block maps.

The term "cells" used herein to indicate the scope of subject content of the several counts refers to each figure or statistic in the tabulation for a specific geographic area. For example, in the Third Count, there are six cells for a cross-classification of race by sex: three categories of race (white, Negro, other race) by two categories of sex (male, female).

In addition to the above-mentioned summary tapes, the Census Bureau makes available for purchase certain sample tape files containing population and housing characteristics as shown on individual census records. These files contain no names or addresses, and the geographic identification is sufficiently broad to protect confidentiality. There are six files, each containing a 1-percent national sample of persons and housing units. Three of the files are drawn from the population covered by the census 15-percent sample and three from the population in the census 5-percent sample. Each of these three files provides a different type of geographic information: One identifies individual large SMSA's and, for the rest of the country, groups of counties; the second individual States and, where they are sufficiently large, provides urban-rural and metropolitan-nonmetropolitan detail; and the third State groups and size of place, with each individual record showing selected characteristics of the persons's neighborhood.

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Table

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4, 14, 22	PLUMBING FACILITIES BY PERSONS PER ROOM
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10	SALES PRICE ASKED AND RENT ASKED

A UNITED STATES  
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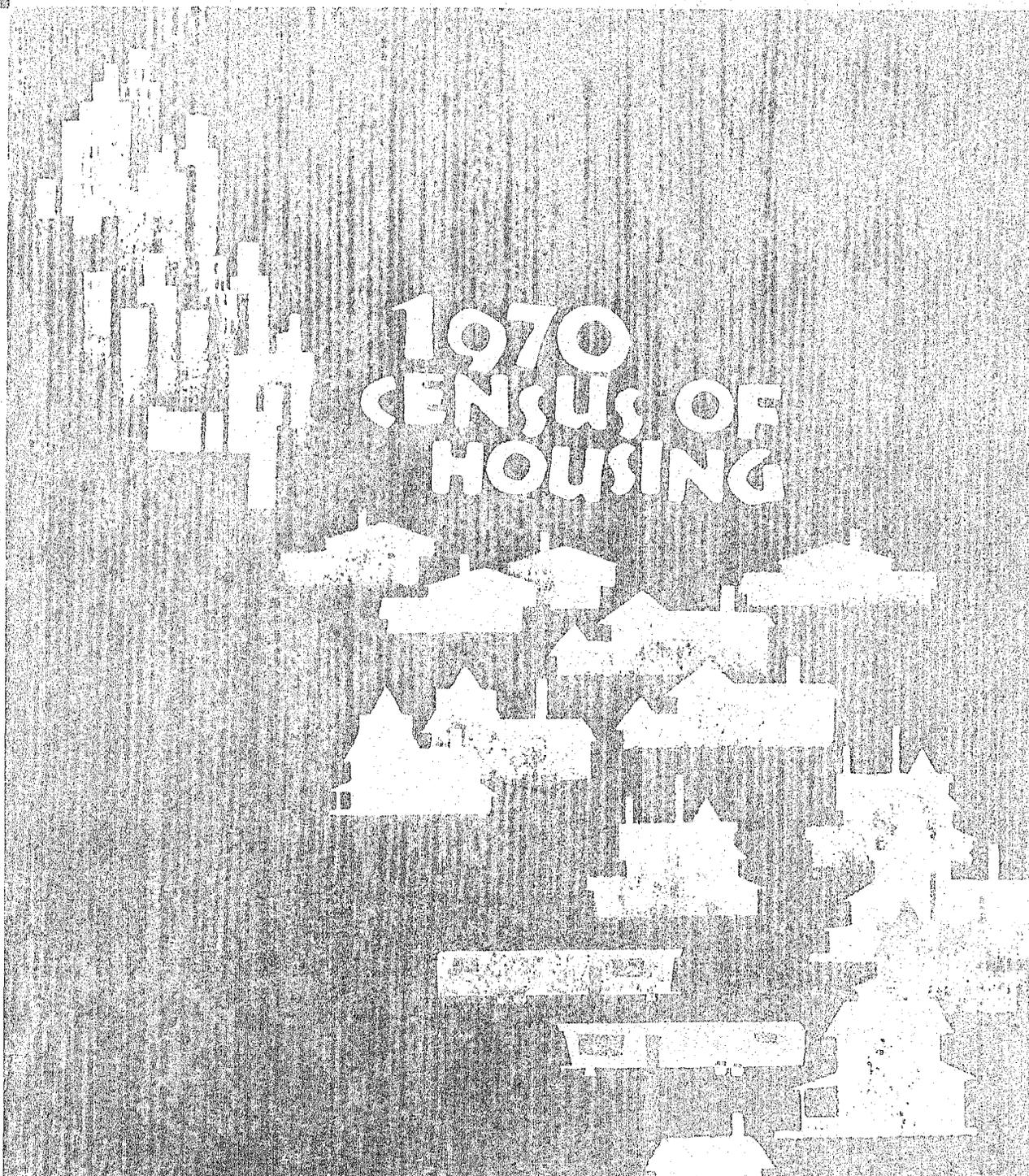


# Metropolitan Housing Characteristics

DETROIT, MICH.

STANDARD METROPOLITAN STATISTICAL AREA

HC(2)-60

The background of the lower half of the cover is a dark, textured grey. On the left side, there is a stylized white silhouette of a city skyline with various skyscrapers of different heights. In the center and right, there are several white silhouettes of houses of various shapes and sizes, some with gabled roofs and some with flat roofs. The text "1970 CENSUS OF HOUSING" is printed in large, white, bold, sans-serif capital letters, centered over the house silhouettes.

1970  
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### HOUSING DIVISION

Arthur F. Young, Chief

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