U.S. Department of Commerce 3UREAU OF THE CENSUS

U.S. Department of Housing and Urban Development

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Issued September 1986

Figure 1. Units in Apartment Buildings Started, Completed, and Absorbed: 1981 to 1986 Thousands Thousands 180 180 160 160 STARTS -140 140 120 -120 TOTAL 2 100 100 COMPLETIONS ١. 80 80 60 60 SOMA COMPLETIONS -12383⁸⁸⁹⁸¹⁸⁸¹ 40 40 ABSORBED AT 3 MONTHS 20 20 0 0 1st 2nd 3rd 4th 1981 1982 - 1984 -1983 - 1935 -1986 QUARTER OF COMPLETION Note: Limited to buildings with five units or more in permit-issuing places. 1 Source: Construction Reports, C20-86-5 (May 1986) table 2. ² Source: Construction Reports, C22-86-5 (May 1986) table 1. ³ Privately financed, nonsubsidized, unfurnished apartments.

Questions regarding these data maybe directed to Charles Clark, Housing Division, Telephone 301-763-2866.

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Market Absorption of Apartments

Second Quarter 1986 – Absorptions (Completions in First Quarter 1986)

SUMMARY OF FINDINGS

Privately financed, nonsubsidized, unfurnished apartments completed during the January-March 1986 quarter were 67 percent absorbed (seasonally adjusted) 3 months after their completion. This is about the same as the 3-month seasonally adjusted rate for apartments completed during the fourth quarter of 1985. Apartments which have been on the market for 9 months, those completed during July-September 1985, were 91 percent absorbed.

The data are based on a sample survey and consequently the figures cited above are subject to sampling variability. As shown in table 3, the 67 and 91 percent figures are subject to sampling errors (i.e., standard errors) of 1.7 and 1.1 percentage points, respectively. This means that there are about 2 chances out of 3 that a complete count would be in the range of 67 (\pm 1.7) percentage points and 91 (\pm 1.1) percentage points. Sampling errors for the figures that follow are indicated in parenthesis.¹

A total of 123,400 (\pm 7,220) apartments were completed during the first quarter of 1986. The number of privately financed, nonsubsidized, unfurnished apartments completed was 92,500 (\pm 3,440), about 75 (\pm 2.6) percent of total apartment completions during the quarter. This is not significantly different from the number of similar apartments completed in the fourth quarter of 1985, but represents an increase of about 24 (\pm 6.3) percent over completions of unfurnished units in the first quarter of 1985.

The median rent asked for newly constructed units was \$441 (± 5.2) in the first quarter of 1986. Apartments renting for less

'See Reliability of Estimates on page 5.

than \$300 accounted for 7 (\pm 0.9) percent of total completions. Apartments renting for \$300 to \$399, \$400 to \$499, and \$500 or more each accounted for about one-third of total completions with 29 (\pm 1.7), 34 (\pm 1.7), and 31 (\pm 1.7) percent, respectively. Approximately 51 (\pm 1.8) percent of the newly constructed apartments were built with two bedrooms and about the same, 47 (\pm 1.8) percent, had less than two bedrooms. Only 3 (\pm 0.6) percent were built with three or more bedrooms.

The total number of unfurnished units completed in the last 12 months reported as rented in the second quarter of 1986 was 91,800 (\pm 5,480). The median rent asked for these units was \$440 (\pm 5.0). The total number of similar apartments remaining for rent at the end of the second quarter was 62,500 (\pm 4,670) with a median asking rent of \$451 (\pm 12.5).

Approximately 23,600 (± 2,830) cooperative and condominium apartments were completed in the first quarter of 1986. This represents a decrease of about 28 (± 12.3) percent from first quarter 1985 completions. Cooperative and condominium apartments accounted for about 19 (± 2.3) percent of total first quarter 1986 completions. The 3-month absorption rate for cooperative and condominium apartments was 76 (± 5.1) percent. The median price asked for condominium units was \$86,600 (± 4,100). The majority of newly constructed condominium apartments, 74 (± 5.3) percent, had 2 bedrooms. Condominium apartmentswith less than two bedrooms accounted for 14 (± 4.2) percent of the total while those with three bedrooms or more were about the same at 11 (± 3.8) percent.

The total number of condominium apartments completed in the last 12 months reported as sold in the second quarter of 1986

Table 1. Characteristics of Apartments Completed During the First Quarter of 1986 and Rented Within 3 Months

Not Seasonally Adjusted

(Privately financed, nonsubsidized, unfurnished apartments. Data regarding number of bedrooms and asking rent are collected at the initial interview, i.e., 3 months following completion. Data may not add to total due to rounding. Medians are computed using unrounded data.)

	Total comple	units eted	Percent uni	of total ts	Percent rented within 3 months		
Item	Number	Sampling *error	Percent	Sampling error* (percentage points)	Percent	Sampling error* (percentage points)	
Total	92,500	3,440	100	(X)	65	1.7	
RENT CLASSES							
Less than \$300 \$300 to \$349 \$350 to \$399 \$400 to \$449 \$450 to \$499 \$500 or more Median rent asked	6,700 8,100 18,300 16,200 14,900 28,300 \$441	1,600 1,750 2,540 2,410 2,320 3,050 5.2	7 9 20 18 16 31 (X)	0.9 1.0 1.5 1.4 1.3 1.7 (X)	73 77 61 69 65 61 (X)	10.6 9.1 6.7 6.8 7.4 5.2 (X)	
NUMBER OF BEDROOMS							
Less than 2 2 3 or more	43,300 46,800 2,400	3,530 3,610 970	47 51 3	1.8 1.8 0.6	62 68 67	3.9 3.6 18.9	

*Standard error within range of about 2 chances out of 3.

(X) Not applicable.



was 27,900 (\pm 3,240). The median price asked for these units was \$91,100 (\pm 4,290). The total number lof condominium apartments remaining for sale at the end of the second quarter was 21,500 (\pm 2,850) with a median asking price of \$94,400 (\pm 5,530).

Units in federally subsidized properties built under programs of the Department of Housing and Urban Development (Low Income Housing Assistance (Section 8), Senior Citizens Housing Direct Loans (Section 202), and all units in buildings containing apartments in the FHA rent supplement program) accounted for only 4 (\pm 1.0) percent of total completions.

Furnished rental units accounted for 1 (\pm 0.5) percent of apartment completions. The remaining units, 1 (\pm 0.5) percent, are not in scope of the survey and include time-sharing units, continuing care retirement units, and turnkey housing (privately built for and sold to local public housing authorities subsequent to completion). The data on privately financed units include privately owned housing subsidized by State and local government.

SAMPLE DESIGN

The Survey of Market Absorption (SOMA) is designed to provide data concerning the rate at which nonsubsidized and unfurnished privately financed units in buildings with five or more units are rented (or absorbed). In addition, data on characteristics of the units, such as rent and number of bedrooms, are collected. The buildings selected for SOMA are those included in the Census Bureau's Survey of Construction (SOC)². For this survey, the United States is first divided into primary sampling units (PSU's) which are sampled on the basis of population. Next, a sample of permit-issuing places is selected within each sample PSU. Finally, all buildings within sampled places with five or more units as well as a subsample of buildings with one to four units are selected.

Each quarter, a sample of buildings with five or more housing units in the SOC sample reported as completed during that quarter come into sample for SOMA. Buildings completed in nonpermit-issuing areas are excluded from consideration. Information on the proportion of units absorbed 3, 6, 9, and 12 months after completion is obtained for units in buildings selected in a given quarter in each of the next four quarters.

Each quarter the absorption data for some buildings are received too late for inclusion in the report. These late data will be included in a revised table in the next quarterly report. (See table 2.)

ESTIMATION

Unbiased quarterly estimates are formed by multiplying the counts for each building by its base weight (the inverse of its

²See "Housing Starts," Construction Reports, Sesries C20, for details of this survey.

Table 2. Characteristics of Apartments Completed During the Fourth Quarter of 1985 and Rented Within 3 Months (Revised)

Not Seasonally Adjusted

(Privately financed, nonsubsidized, unfurnished apartments. Data regarding number of bedrooms and asking rent are collected at the initial interview, i.e., 3 months following completion. Data may not add to total due to rounding. Medians are computed using unrounded data.)

	Total compl	units eted	Percent uni	of total ts	Percent rented within 3 months		
Item	Number	Sampling error*	Percent	Sampling error* (percentage points)	Percent	Sampling error* (percentage points)	
Total	98,300	3,420	100	(x)	62	1.6	
RENT CLASSES							
Less than \$300 \$300 to \$349 \$350 to \$399 \$400 to \$449 \$450 to \$499 \$500 or more Median rent asked	5,000 10,100 18,800 17,300 14,400 32,600 \$444	1,320 1,840 2,450 2,360 2,170 3,080 4.5	5 10 19 18 15 33 (X)	0.7 1.0 1.3 1.3 1.2 1.6 (X)	69 68 65 57 60 60 (X)	12.1 8.5 6.2 6.7 7.4 4.6 (X)	
NUMBER OF BEDROOMS							
Less than 2 2 3 or more	47,700 48,400 2,200	3,500 3,510 880	49 49 2	1.7 1.7 0.5	63 61 58	3.5 3.5 19.7	

*Standard error within range of about 2 chances out of 3.

probability of selection) and then summing over all buildings. The final estimate is then obtained by multiplying the unbiased estimate by the following ratio estimate factor:

total	units	in 5	+ buildings in permit-issuing areas
		as	estimated by the SOC
			for that quarter
total	units	in 5	+ buildings as estimated by SOMA
			for that quarter

This procedure produces estimates of the units completed in a given quarter which are consistent with the published figures from the Housing Completions Series,³ and also reduces, to some extent, the sampling variability of the estimates of totals.

It is assumed that the absorption rates and other characteristics of units not included in the interviewed group or not accounted for are identical to rates for units where data were obtained. The noninterviewed and not-accounted-for-cases constitute less than 2 percent of the sample housing units in this survey.

RELIABILITY OF THE ESTIMATES

There are two types of possible errors associated with data from sample surveys: sampling and nonsampling errors. The

³See "Housing Completions," Construction Reports, Series C22.

following is a description of the sampling and nonsampling errors associated with SOMA.

Nonsampling Errors

In general, nonsampling errors can be attributed to many sources: inability to obtain information about all cases, definitional difficulties, differences in the interpretation of questions, inability or unwillingness to provide correct information on the part of respondents, mistakes in recording or coding the data, and other errors of collection, response, processing, coverage, and estimation for missing data.

Sampling Errors

The particular sample used for this survey is one of a large number of possible samples of the same size that could have been selected using the same sample design. Even if the same questionnaires, instructions, and interviewers were used, estimates from each of the different samples would differ from each other. The deviation of a sample estimate from the average of all possible samples is defined as the sampling error. The standard error of a survey estimate attempts to provide a measure of this variation among the estimates from the possible samples and, thus, is a measure of the precision with which an estimate from a sample approximates the average result of all possible samples.

Table 3. Absorption Rates of Privately Financed Nonsubsidized Unfurnished Apartments: 1983 to 1986

	Total units completed		Seasonally adjusted rented within 3 months		Not seasonally adjusted - rented within							
					3 m	onths	бт	onths	9 months		12 months	
Quarter of completion	Number	Sam- pling error*	Per- cent	Sampling error* (per- centage points)	Per- cent	Sampling error* (per- centage points)	Per- cent	Sampling error* (per- centage points)	Per- cent	Sampling error* (per- centage points)	Per- cent	Sampling error* (per- centage points)
1983												
January-March April-June July-September October-December	33,100 41,600 57,200 59,500	1,780 1,940 2,310 2,270	61 65 74 71	3.4 2.9 2.3 2.3	59 69 76 68	3.4 2.8 2.2 2.4	81 87 87 84	2.7 2.1 1.8 1.9	90 93 93 93	2.1 1.6 1.3 1.6	94 96 96 97	1.6 1.2 1.2 1.3
1984												
January-March April-June July-September October-December	68,900 84,800 72,200 87,400	2,620 3,790 3,700 3,730	71 68 63 66	2.6 2.5 2.2 2.0	68 72 64 64	2.7 2.4 2.2 2.0	88 88 82 81	1.9 1.7 1.9 1.6	94 93 91 90	1.4 1.3 1.4 1.0	96 96 96 94	1.1 0.9 0.8 0.8
1985												
January-March Aprîl-June ^r July-September October-December ^r	74,800 94,200 97,100 98,300	3,260 4,080 3,900 3,420	67 65 64 65	1.5 2.0 1.9 1.6	64 68 65 62	2.1 2.0 1.9 1.6	84 85 83 82	1.6 1.5 1.5 1.3	91 92 91 (NA)	1.2 1.1 1.1 (NA)	94 95 (NA) (NA)	1.2 0.9 (NA) (NA)
1986												
January-March April-June July-September October-December	92,500	3,440	67	1.7	65	1.7	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

(Structures with five units or more.)

*Standard error within range of about 2 chances out of 3.

(NA) Not available. rRevised.

As calculated for this survey, the standard error also partially measures the variation in the estimates due to response and interviewer errors (nonsampling errors), but it does not measure, as such, any systematic biases in these data. Therefore, the accuracy of the estimates depends on both the sampling and nonsampling error measured by the standard error, biases, and some additional nonsampling errors not measured by the standard error.

The sample estimate and its estimated standard error enable the user to construct confidence intervals, ranges that would include the average result of all possible samples with a known probability. For example, if all possible samples were selected, each of these were surveyed under essentially the same general conditions, and an estimate and its estimated standard error were calculated from each sample, then—

- Approximately 68 percent of the intervals from one standard error below the estimate to one standard error above the estimate would include the average result of all possible samples.
- Approximately 90 percent of the intervals from 1.6 standard errors below the estimate to 1.6 standard errors above the estimate would include the average result of all possible samples.
- Approximately 95 percent of the intervals from two standard errors below the estimate to two standard errors above the estimate would include the average result of all possible samples.

For very small estimates, the lower limit of the confidence interval may be negative. In this case, a better approximation to the true interval estimate can be achieved by restricting the interval estimate to positive values, that is, by changing the lower limit of the interval estimate to zero.

The average result of all possible samples either is or is not contained in any particular computed interval. However, for a particular sample, one can say with specified confidence that the average result of all possible samples is included in the constructed interval.

The conclusions stated in this report are considered significant at the 95 percent confidence level.

For example, table 1 of this report shows that there were 46,800 apartments with two bedrooms in the first quarter of 1986. The standard error of this estimate is 3,610. The 68 percent confidence interval as shown by these data is from 43,190 to 50,410. Therefore, a conclusion that the average estimate derived from all possible samples lies within a range computed in this way would be correct for roughly 68 percent of all possible samples. Similarly, we could conclude that the average estimate derived from all possible samples lies within the interval from 39,580 to 54,020 (using twice the standard error) with 95 percent confidence.

The data in this report are preliminary and subject to slight changes in the annual report.

Table 4. Absorption Rates of Cooperative and Condominium Apartments: 1983 to 1986 Not Seasonally Adjusted

	Total		Percent of		Percent absorbed within							
	units c	ompleted	all 5+ units		3 months		6 months		9 months		12 months	
Quarter of completion	Number	Sampling error*	Per- cent	Sampling error* (per- centage points)	Per- cent	Sampling error* (per- centage points)	Per- cent	Sampling error* (per- centage points)	Per- cent	Sampling error* (per- centage points)	Per- cent	Sampling error* (per- centage points)
1983												
January-March April-June July-September October-December	20,900 20,700 37,700 32,500	1,590 1,620 2,110 2,010	30 26 33 30	2.2 1.9 1.8 1.8	55 69 73 62	4.6 4.4 3.0 3.6	69 82 84 84	4.2 3.7 2.5 2.7	78 88 91 90	3.8 3.1 1.9 2.2	81 93 94 93	3.6 2.4 1.6 1.9
1984												
January-March, April-June July-September October-December	23,600 38,500 43,200 38,400	2,150 3,290 3,360 3,280	23 28 34 28	2.0 2.0 2.1 2.0	64 72 74 64	4.4 3.8 3.4 4.1	78 82 84 81	3.7 3.2 2.8 3.3	84 86 88 88	3.3 2.9 2.5 2.2	88 90 92 91	2.9 2.5 1.7 1.9
1985												
January-March. April-June ^r July-September October-December ^r	32,700 36,600 39,000 27,400	2,850 3,570 3,510 2,870	28 26 27 21	2.0 6.0 4.0 4.2	65 69 59 67	4.1 4.3 4.4 4.8	81 78 70 82	3.4 3.8 4.1 4.0	86 82 84 (NA)	3.0 3.7 3.3 (NA)	90 87 (NA) (NA)	3.0 3.2 (NA) (NA)
1986												
January-March April-June July-September October-December	23,600	2,830	19	4.7	76	5.1	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

(Structures with five units or more)

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*Standard error within range of about 2 chances out of 3. (NA) Not available. ^rRevised.

Table 5. Characteristics of Condominium Apartments Completed During the First Quarter of 1986 and Sold Within 3 Months

Not Seasonally Adjusted

(Privately financed, nonsubsidized, apartments. Data regarding number of bedrooms and asking price are collected at the initial interview, i.e., 3 months following completion. Data may not add to total due to rounding. Medians are computed using unrounded data.)

	Total compl	units eted	Percent uni	of total ts	Percent sold within 3 months		
Item	Number	Sampling error*	Percent	Sampling error* (percentage points)	Percent	Sampling error* (percentage points)	
Total PRICE CLASSES	23,100	2,810	100	(X)	75	5.2	
Less than \$40,000 \$40,000 to \$49,999 \$50,000 to \$74,999 \$75,000 to \$99,999 \$100,000 or more Median price asked NUMBER OF BEDROOMS	900 1,400 5,300 8,600 6,900 \$86,600	590 740 1,430 1,800 1,620 4,100	4 6 23 37 30 (X)	2.4 2.9 5.1 5.8 5.5 (X)	94 76 71 76 75 (X)	15.7 22.6 12.2 8.9 10.1 (X)	
Less than 2 2 3 or more	3,300 17,200 2,500	1,130 2,470 990	14 74 11	4.2 5.3 3.8	73 77 70	15.2 6.0 18.1	

*Standard error within range of about 2 chances out of 3. (X) Not applicable.

Table 6. Housing Units Completed in Buildings With Five Units or More: 1983 to 1986

(Limited to buildings in permit-issuing places. Data may not add to total due to rounding)

Quarter	Total		Unfurnished apartments		Furnished apartments		Cooperatives and condominiums		Federally subsidized		Other ¹	
completion	Number	Sampling error*	Number	Sampling error*	Number	Sampling error*	Number	Sampling error*	Number	Sampling error*	Number	Sampling error*
1983												
January-March April-June July-September October-December	69,200 80,500 112,600 108,400	3,400 3,680 4,410 4,320	33,100 41,600 57,200 59,500	1,780 1,940 2,310 2,270	300 800 1,700 1,900	220 350 520 540	20,900 20,700 37,700 32,500	1,590 1,620 2,110 2,000	12,500 13,400 8,700 13,100	1,150 1,310 1,140 1,380	2,400 4,000 7,300 1,400	930 920 1,050 470
1984 January-March April-June July-September October-December	104,400 138,100 126,900 136,600	5,110 7,260 6,940 7,220	68,900 84,800 72,200 87,400	2,620 3,790 3,700 3,730	1,700 2,700 1,700 3,700	630 970 770 1,140	23,600 38,500 43,200 38,400	2,150 3,290 3,360 3,280	6,200 9,000 9,000 4,300	1,180 1,750 1,740 1,220	4,000 3,100 800 2,800	960 1,040 530 990
1985 January-March Apríl-June ^r July-September ^r October-December ^r .	117,900 138,300 144,500 132,600	6,290 8,040 7,850 7,110	74,800 94,200 97,100 98,300	3,260 4,060 3,990 3,420	1,100 1,700 2,100 2,500	590 850 890 940	32,700 36,600 39,000 27,400	2,850 3,570 3,550 2,870	2,500 3,300 2,400 3,800	880 1,190 970 1,160	6,800 2,500 3,900 600	1,430 1,030 1,010 460
1986 January-March April-June July-September October-December	123,400	7,220	92,500	3,440	1,300	710	23,600	2,830	5,400	1,440	700	530

*Standard error within range of about 2 chances out of 3. ^rRevised.

¹Other includes turnkey housing (privately built and sold to local public housing authorities subsequent to completion).

Table 7. Characteristics of Apartments Reported as Rented and Remaining For Rent in the Second Quarter of 1986

Item	Number of units rented	Sampling error*	Number of units remaining for rent	Sampling error*	
Total	91,800	5,480	62,500	4,670	
RENT CLASSES					
Less than \$300 \$300 to \$349 \$350 to \$399 \$400 to \$449 \$450 to \$499 \$500 or more Median rent asked	6,700 9,000 16,700 17,000 15,400 26,900 \$440	1,620 1,870 2,530 2,550 2,430 3,180 5.0	4,000 4,700 11,400 11,000 10,100 21,300 \$451	1,250 1,350 2,100 2,070 1,980 2,840 12.5	
NUMBER OF BEDROOMS					
Less than 2 2 3 or more	41,600 47,600 2,500	3,900 4,150 990	29,600 31,600 1,300	3,320 3,430 720	

(Privately financed, nonsubsidized, unfurnished apartments. Data regarding number of bedrooms and asking rent are collected at the initial interview, i.e., 3 months following completion. Data may not add to total due to rounding. Medians are computed using unrounded data.)

*Standard error within range of about 2 chances out of 3.

Note: These data are for second, third and fourth quarter 1985 and first quarter 1986 completions reported as rented or remaining for rent in the second quarter of 1986.

Table 8. Characteristics of Condominium Apartments Reported as Sold and Remaining For Sale in the Second Quarter of 1986

(Privately financed, nonsubsidized, unfurnished apartments. Data regarding number of bedrooms and asking price are collected at the initial interview, i.e., 3 months following completion. Data may not add to total due to rounding. Medians are computed using unrounded data.)

Item	Number of	Sampling	Number of units	Sampling	
	units sold	error*	remaining for sale	error*	
Total	27,900	3,240	21,500	2,850	
PRICE CLASSES					
Less than \$40,000	1,000	640	200	280	
\$40,000 to \$49,999	1,500	780	1,000	640	
\$50,000 to \$74,999	5,800	1,500	4,800	1,380	
\$75,000 to \$99,999	8,700	1,840	6,000	1,540	
\$100,000 or more	10,900	2,050	9,400	1,910	
Median price asked	\$91,100	4,290	\$94,400	5,530	
Less than 2	3,900	1,230	5,600	1,470	
	21,300	2,850	12,700	2,210	
	2,600	1,020	3,200	1,130	

*Standard error within range of about 2 chances out of 3.

Note: These data are for second, third and fourth quarter 1985 and first quarter 1986 completions reported as sold or remaining for sale in the second quarter of 1986.







At what rate are newly constructed apartments rented or otherwise absorbed? Find the answers in these quarterly housing reports—

"MARKET ABSORPTION OF APARTMENTS"

- Series H-130

Because of the continuing interest in apartment construction throughout the Nation, both private industry and Government have a need for information on the nature of the demand for rental housing. This report is designed to provide data concerning the rate at which nonsubsidized and unfurnished privately financed units in buildings with five or more units are rented (or absorbed). The "Market Absorption of Apartments" quarterly report provides data on the time it takes to rent new apartment units by showing percents absorbed at 3-, 6-, 9-, and 12months intervals following completion of the units. Three-month absorption rates are also presented for some characteristics of the units, such as asking rent classes and number of bedrooms. Data for cooperative and condominium apartment units, such as the total completed and the 3-month absorption rate, are also provided.

The annual report provides similar data for the geographic regions of the United States and for inside and outside SMSA's of the United States. In addition, data are presented on facilities and services offered in new rental units, such as air conditioning and swimming pools.

"CHARACTERISTICS OF APARTMENTS COMPLETED" - Series H-131

This report provides data on the characteristics of nonsubsidized and privately financed apartment units in buildings with five or more units completed during a calendar year. For unfurnished units, the characteristics include number of bedrooms, asking rent classes, and the 3-month absorption rate. Geographically, the data are presented by regions of the United States and by inside and outside SMSA's.

For furnished units, data are presented for the United States by asking rent classes and number of bedrooms. For cooperative and condominium units, data are given for the United States by number of bedrooms, regions, and percent absorbed after 3 months.

These publications are of great value to builders, bankers, market analysts, land planners, and Government officials trying to measure the needs for Federal, State, and local assistance in providing better housing for everyone.

The statistics of these reports are based on a survey conducted by the Bureau of the Census, U.S. Department of Commerce, for the Department of Housing and Urban Development.



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