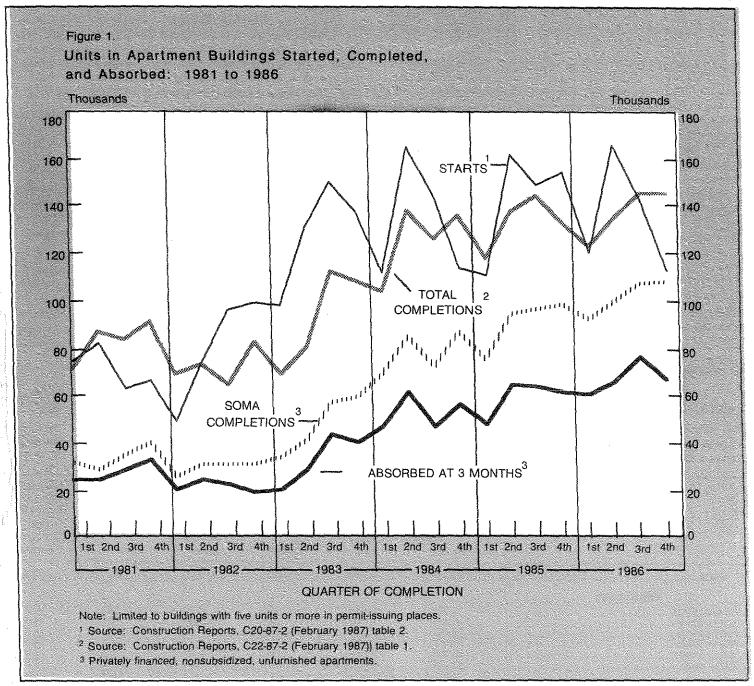
U.S. Department of Commerce BUREAU OF THE CENSUS

U.S. Department of Housing and Urban Development

H130-87-Q1 Issued June 1987

Market Absorption of Apartments

First Quarter 1987 – Absorptions (Completions in Fourth Quarter 1986)



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

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SUMMARY

Privately financed, nonsubsidized, unfurnished rental apartments completed in buildings with five units or more during the October-December 1986 quarter were 65 percent absorbed (seasonally adjusted) 3 months after their completion. This is about the same as the 3-month seasonally adjusted rate of 69 percent for apartments completed during the third quarter 1986. The not seasonally adjusted 3-month rate of 62 percent, while down from the third quarter absorption rate of 71 percent, is the same as the 3-month rate for fourth quarter 1985. Apartments which have been on the market for 9 months, those completed during April-June 1986 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 65, 62, and 91 percent figures are subject to sampling errors (i.e., standard errors) of 1.8, 1.8, 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 65 (\pm 1.8) percentage points, 62 (\pm 1.8) percentage points. Sampling errors for the figures that follow are indicated in parenthesis.1-

A total of 145,400 (\pm 8,620) apartments were completed during the fourth quarter of 1986. The number of privately financed, nonsubsidized, unfurnished apartments completed was 108,100 (\pm 4,130), about 74 (\pm 3.0) percent of total apartment completions during the quarter.

The median rent asked for newly constructed units was \$476 (\pm 6.7) in the fourth quarter of 1986. Apartments renting for less than \$300 accounted for 6 (\pm 1.6) percent of unfurnished rental unit completions. Apartments renting for \$300 to \$399 and those renting for \$400 to \$499 each

accounted for about one-fourth of completions with 22 (\pm 3.0) percent and 29 (\pm 3.0) percent, respectively. Apartments renting for \$500 or more accounted for 43 (\pm 3.3) percent of the unfurnished rental completions. The absorption rate for units renting for \$500 or more declined from 73 (\pm 4.3) percent in the third quarter to 63 (\pm 3.9) percent in the fourth quarter. About half, 52 (\pm 3.3) percent, of all newly constructed apartments were built with two bedrooms and 45 (\pm 3.2) percent had less than two bedrooms. Only 3 (\pm 1.1) 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 first quarter of 1987 was 91,900 (\pm 5,940). The median rent asked for these units was \$469 (\pm 10.0). The total number of similar apartments remaining for rent at the end of the first quarter was 70,100 (\pm 5,290) with a median asking rent of \$467 (\pm 11.0).

Approximately 27,600 (\pm 3,360) cooperative and condominium apartments were completed in the fourth quarter of 1986. This is about the same as fourth quarter 1985 completions. Cooperative and condominium apartments accounted for about 19 (\pm 5.1) percent of total fourth quarter 1986 completions. The 3-month absorption rate for cooperative and condominium apartments was 72 (\pm 5.4) percent. The majority of newly constructed condominium apartments, 67 (\pm 6.2) percent, had 2 bedrooms. The median asking price for condominium units was over \$99,300 (\pm 7,230).

The total number of condominium apartments completed in the last 12 months reported as sold in the first quarter of 1987 was 23,700 (\pm 3,220). The median price asked for these units was \$98,000 (\pm 7,200). The total number of condominium apartments remaining for sale at the end of the first quarter was 17,900 (\pm 2,810). These units had a median asking price of over \$100,000 (\pm 1,060).

Table 1. Characteristics of Apartments Completed During Fourth 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.)

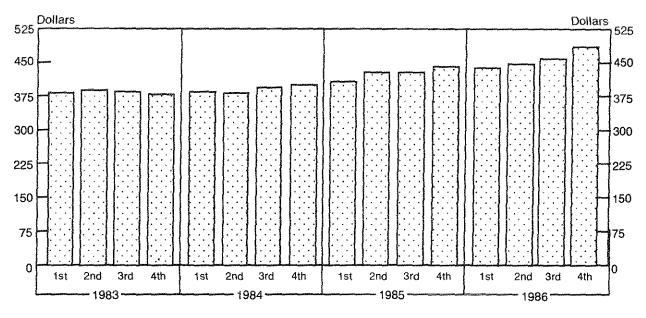
	Total units	completed	Percent of	total units	Percent rented within 3 months		
Item	Number	Standard error*	Percent	Standard error* (percentage points)	Percent	Standard error* (percentage points)	
Total	108,100	4,130	100	(X)	62	1.8	
RENT CLASS							
Less than \$300 \$300 to \$349 \$350 to \$399 \$400 to \$449 \$450 to \$499 \$500 or more.	6,300 6,800 16,900 15,300 16,500 46,200	1,700 1,770 2,710 2,590 2,680 4,080	6 16 14 15 43	1.6 1.6 2.4 2.3 2.4 3.3	69 73 57 59 59 63	12.4 11.4 7.8 8.2 7.8 3.9	
Median asking rent	\$476	6.7	(X)	(X)	(X)	(X)	
NUMBER OF BEDROOMS Less than 2	48,600 55,800 3,700	4,140 4,310 1,310	45 52 3	3.2 3.3 1.1	63 61 70	3.8 3.4 16.2	

^{*}Standard error within range of about 2 chances our of 3.

¹See Reliability of Estimates on page 5.

Figure 2.

Median Rent of Apartments Completed in the United States: 1983 to 1986

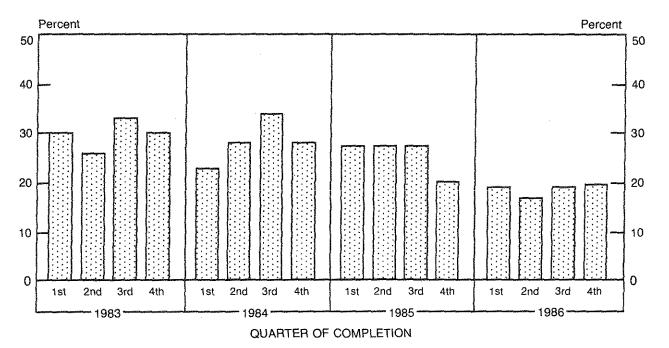


QUARTER OF COMPLETION

Note: Limited to buildings with five or more units in permit-issuing places.

Figure 3.

Cooperative and Condominium Apartment Completions as Percent of Total Apartment Completions: 1983 to 1986



Note: Limited to buildings with five or more units in permit-issuing places.

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 3 (\pm 1.0) percent of total completions.

Furnished rental units accounted for 2 (\pm percent of apartment completions. The remaining units, 2 (\pm 0.8) percent, are not in the 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 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 guarter

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.

Table 2. Characteristics of Apartments Completed During Third Quarter of 1986 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 units	completed	Percent of	total units	Percent rented within 3 months		
ltem	Number	Standard error*	Percent	Standard error* (percentage points)	Percent	Standard error* (percentage points)	
Total	107,600	4,170	100	(X)	71	1.7	
RENT CLASS Less than \$300 . \$300 to \$349 . \$350 to \$399 . \$400 to \$449 . \$450 to \$499 . \$500 or more.	9,500 11,400 15,700 15,800 16,100 39,100	2,070 2,260 2,620 2,630 2,650 3,850	9 11 15 15 15 36	1.9 2.1 2.4 2.4 2.4 3.1	82 74 65 65 73	8.4 8.7 7.8 7.9 6.8 4.3	
Median asking rent	\$454	6.0	(X)	(X)	(X)	(X)	
NUMBER OF BEDROOMS							
Less than 2	47,000 56,500 4,200	4,100 4,330 1,400	44 53 4	3.2 3.3 1.3	70 71 79	3.9 3.4 13.5	

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

 $^{^2\}mbox{See}$ "Housing Starts," Construction Reports, Series C20, for details of this survey.

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

RELIABILITY OF THE ESTIMATES

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

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 the 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.

Table 3. Absorption Rates of Privately Financed Nonsubsidzed Unfurnished Apartments: 1983 to 1986 (Structures with five units or more.)

	Total	units	Seaso	, i		***************************************	Not seaso	nally adjus	ted-rente	d within-	1.000	······································	
	comp	leted	adjusted—rented within 3 months		3 mo	3 months		6 months		9 months		12 months	
Quarter of completion	Number	Stand- ard error*	Percent	Stand- ard error* (per- centage points)	Percent	Stand- ard error* (per- centage points)	Percent	Stand- ard error* (per- centage points)	Percent	Stand- ard error* (per- centage points)	Percent	Stand- ard 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 April-June July-September October-December	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 93	1.2 1.1 1.1 0.9	94 95 96 96	1.2 0.9 0.8 0.7	
1986						İ							
January-March April-June July-September' October-December	92,700 99,600 107,600 108,100	3,430 4,020 4,170 4,130	67 63 69 65	1.7 1.9 1.7 1.8	65 66 71 62	1.7 1.9 1.7 1.8	86 84 85 (NA)	1.3 1.4 1.3 (NA)	93 91 (NA) (NA)	0.9 1.1 (NA) (NA)	96 (NA) (NA) (NA)	0.8 (AN) (AN) (AN)	

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

 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 55,800 apartments with two bedrooms in the fourth quarter of 1986. The standard error of this estimate is 4,310. The 68 percent confidence interval as shown by these data is from 51,490 to 60,110. 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 47,180 to 64,420 (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

(Structures with five units or more)

	Total	units	Perce	nt of	Percent absorbed within						n		
	comp	leted	all 5+	units	3 ma	nths	6 mc	onths	9 mc	onths	12 m	onths	
Quarter of completion	Number	Stand- ard error*	Per- cent	Stand- ard error* (per- centage points)	Per- cent	Stand- ard error* (per- centage points)	Per- cent	Stand- ard error* (per- centage points)	Per- cent	Stand- ard error* (per- centage points)	Per- cent	Stand- ard 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		. 1											
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					Ť								
January-March	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 69	4.1 4.3 4.4 4.8	81 78 70 81	3.4 3.8 4.1 4.1	86 82 84 85	3.0 3.7 3.3 3.7	90 87 89 90	3.0 3.2 2.8 3.1	
1986	ļ		;								***************************************		
January-March April-June' July-September' October-December	23,300 23,700 26,500 27,600	2,830 3,130 3,300 3,360	19 17 18 19	4.7 4.9 5.1 5.1	75 72 74 72	5.1 5.9 5.4 5.4	86 79 82 (NA)	4.2 5.3 4.8 (NA)	90 83 (NA) (NA)	3.8 4.9 (NA) (NA)	94 (NA) (NA) (NA)	3.1 (NA) (NA) (NA)	

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

(NA) Not available.

'Revised.

Table 5. Characteristics of Condominium Apartments Completed During Fourth 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 units	completed	Percent of	total units	Percent sold within 3 months		
łtem	Number	Standard error*	Percent	Standard error* (percentage points)	Percent	Standard error* (percentage points)	
Total	27,600	3360	100	(X)	72	5.4	
PRICE CLASS							
Less than \$40,000 \$40,000 to \$49,999 \$50,000 to \$74,999 \$75,000 to \$99,999 \$100,000 or more Median asking price	100 1,400 6,700 5,700 13,600 \$99,300	220 810 1,750 1,620 2,450 7,230	(Z) 5 24 21 49 (X)	(Z) 2.9 5.6 5.3 6.5 (X)	94 56 74 76 72 (X)	51.7 28.8 11.5 12.1 8.1 (X)	
NUMBER OF BEDROOMS Less than 2	6,700 18,400 2,600	1,750 2,820 1,100	24 67 9	5.6 6.2 3.7	71 75 56	11.8 6.6 21.0	

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

Table 6. Housing Units Completed in Buildings With Five Units or More: 1983 to 1986 (Data may not add to total due to rounding.)

	Total		Unfurnished apartments		Furnished apartments		Cooperatives an condominiums		Federally subsidized		Other ¹	
Quarter of completion	Number	Stand- ard error*	Number	Stand- ard error*	Number	Stand- ard error*	Number	Stand- ard error*	Number	Stand- ard error*	Number	Stand- ard error*
1983 January-March	69,200	3,400	33,100	1,780	300	220	20,900	1,590	12,500	1,150	2,400	930
April-June July-September October-December	80,500 112,600 108,400	3,680 4,410 4,320	41,600 57,200 59,500	1,940 2,310 2,270	800 1,700 1,900	350 520 540	20,700 37,700 32,500	1,620 2,110 2,000	13,400 8,700 13,100	1,310 1,140 1,380	4,000 7,300 1,400	920 1,050 470
1984		٠.										
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								1				
January-March April-June July-September October-December	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	123,400 135,500 145,900 145,400	7,220 8,300 8,640 8,620	92,700 99,600 107,600 108,100	3,430 4,020 4,170 4,130	1,400 4,600 3,100 2,500	710 1,460 1,200 1,080	23,300 23,700 26,500 27,600	2,830 3,130 3,300 3,360	5,300 6,600 6,900 4,700	1,440 1,740 1,780 1,480	700 900 1,600 2,600	630 650 870 1,100

⁽X) Not applicable.

⁽Z) Less than 1/2 percent.

^{&#}x27;Revised.

Official Business Penalty for Private Use, \$300 FIRST-CLASS MAIL POSTAGE & FEES PAID CENSUS PERMIT No. G-58

Table 7. Characteristics of Unfurnished Apartments Completed in Last 4 Quarters and Reported as Rented and Remaining For Rent in First Quarter of 1987

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.)

ltem	Total units completed in last 4 quarters	Standard error*	Units rented prior to 1st quarter 1987	Standard error*	Units rented in 1st quarter 1987	Standard error*	Units re- maining for rent at end of 1st qua- rater 1987	Standard error*
Total	408,000	15,060	246,000	7,330	91,900	5,940	70,100	5,290
RENT CLASS								
Less than \$300 \$300 to \$349 \$350 to \$399 \$400 to \$449 \$450 to \$499 \$500 or more Median asking rent	67,100	3,660 3,860 5,280 5,180 5,070 7,370 3.0	22,700 41,600 39,700 36,400 85,300	2,960 3,120 4,160 4,070 3,910 5,690	6,300 7,600 13,800 13,100 13,800 37,300 \$469	1,680 1,840 2,470 2,420 2,470 4,000	3,900 4,000 11,700 11,500 11,400 27,600 \$467	1,330 1,350 2,280 2,260 2,250 3,460
NUMBER OF BEDROOMS								
Less than 2	186,300 209,100 12,600	7,920 8,180 2,370	111,700 126,800 7,600	6,300 6,590 1,830	41,900 46,800 3,200	4,210 4,430 1,210	32,800 35,500 1,800	3,750 3,900 900

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

Note: These data are for first, second, third, and fourth quarter 1986 completions.

Table 8. Characteristics of Condominium Apartments Completed in Last 4 Quarters and Reported as Sold and Remaining For Sale in First Quarter of 1987

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.)

ltern	Total units completed in last 4 quarters	Standard error*	Units sold prior to 1st quarter 1987	Standard error*	Units sold in 1st quar- ter 1987	Standard error*	Units re- maining for sale at end of 1st quar- ter 1987	Standard error*
Total	98,400	6,100	56,800	3,560	23,700	3,220	17,900	2,810
PRICE CLASS								
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	5,700 21,500 26,500 43,100	850 1,600 3,080 3,410 4,290 2,840	1,400 3,300 12,000 18,100 21,900 \$91,100	780 1,220 2,300 2,800 3,070 2,500	200 1,000 5,900 5,200 11,400 \$98,000	280 670 1,620 1,540 2,260 7,200	100 1,400 3,600 3,100 9,700 \$100,000+	200 780 1,280 1,180 2,080 1,060
NUMBER OF BEDROOMS								
Less than 2	20,800 66,800 10,800	3,030 5,240 2,200	11,700 39,400 5,800	2,260 4,050 1,600	5,400 16,100 2,200	1,560 2,670 990	3,700 11,300 2,800	1,300 2,240 1,130

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

Note: These data are for first, second, third, and fourth quarter 1986 completions.