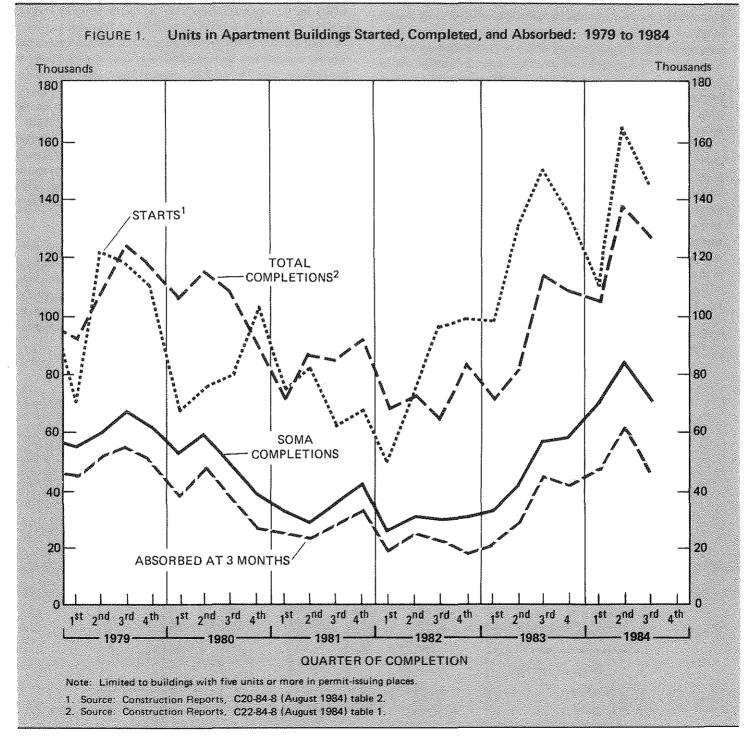
U.S. Department of Commerce BUREAU OF THE CENSUS

U.S. Department of Housing and Urban Development

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Market Absorption of Apartments

Fourth Quarter 1984 — Absorptions (Completions in Third Quarter 1984)



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

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SUMMARY OF FINDINGS

Privately financed, nonsubsidized, unfurnished apartments completed during the July-September 1984 quarter were 63 percent absorbed (seasonally adjusted) 3 months after their completion. This is about the same as the revised 3-month seasonally adjusted rate of 68 percent for apartments completed during the second quarter of 1984. Apartments which have been on the market for 9 months, those completed during January-March 1984, were 94 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 63- and 94- percent figures are subject to sampling errors (i.e., standard errors) of 3.4 to 1.7 percentage points, respectively. This means that there are about 2 chances out of 3 that a complete count would be in the range of 63 (\pm 3.4) percentage points and 94 (\pm 1.7) percentage points. Sampling errors for the figures that follow are indicated in parenthesis.¹

A total of 126,900 (± 6,940) apartments were completed during the third quarter of 1984. This is a decrease of 8 (± 7.3) percent from second quarter 1984 completions, but represents an increase of 13 (± 7.3) percent over third quarter 1983 completions. The number of privately financed, nonsubsidized, unfurnished apartments completed was 70,700 (± 3,660), a decrease of 17 (± 6.2) percent from second quarter 1984 completions but a 24 (± 7.6) percent increase over completions in the third quarter of 1983.

The median asking rent for newly constructed units was \$401 (± 14.0) in the third guarter of 1984. This is the first time

median asking rents have been over \$400, and is the first significant increase in median asking rent since the second quarter of 1982. Apartments renting for less than \$350 accounted for 27 (\pm 2.8) percent of the total, while those renting for \$350 or more accounted for 73 (\pm 1.8) percent. Approximately 49 (\pm 2.7) percent of newly constructed apartments were built with two bedrooms, about the same as the 48 (\pm 2.7) percent built with less than two bedrooms. Only 3 (\pm 1.0) percent of new apartments had three or more bedrooms.

Approximately 44,200 (\pm 3,390) cooperative and condominium apartments were completed in the third quarter of 1984, an increase of about 15 (\pm 12.3) percent over the number of second quarter completions. This represents 35 (\pm 3.6) percent of total completions. The 3-month absorption rate for cooperative and condominium apartments during the third quarter was 74 (\pm 2.2) percent. The median asking price for condominium units was \$83,000 (\pm 3,410). For condominium apartments completed in the second quarter of 1984 the revised median asking price was \$77,400 (\pm 2,529).

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 7 (\pm 2.3) percent of total completions.

Furnished rental units accounted for 1 (\pm 0.6) percent of apartment completions. The remaining 1 (\pm 0.6) percent of the units are not in scope of the survey and include 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 governments.

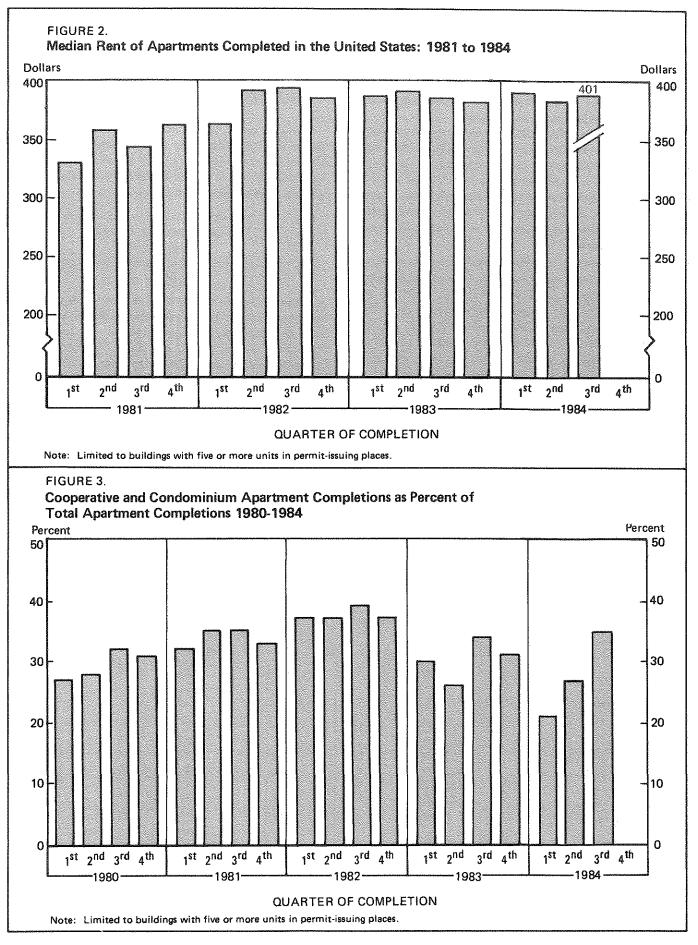
Table 1. Characteristics	of Apartments	Completed I	During the	Third Quarter	of 1984
	and Rente	d Within 3 N	lonths		

(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 are not seasonally adjusted. Data may not add to total due to rounding. Medians are computed using unrounded data)

	Total units	completed		of total nits	Percent rented within 3 months			
Item	Number	Sampling error*	Percent	Sampling error* (percentage points)	Percent	Sampling error* (percentage points)		
Total	70,700	3,660	100	(X)	65	2.2		
Less than \$300 \$300 to \$349 \$350 to \$399 \$400 to \$449 \$450 to \$499 \$500 or more Median asking rent	8,500 10,400 16,300 11,600 10,300 13,700 \$401	1,700 1,860 2,293 1,960 1,857 2,120 14.0	12 15 23 16 15 19 (X)	2.2 2.4 2.7 2.4 2.4 2.6 (X)	60 68 63 58 71 (X)	6.9 5.3 4.3 5.6 6.4 4.3 (X)		
NUMBER OF BEDROOMS Less than 2	34,100 34,700 1,900	3,110 3,130 820	48 49 3	2.7 2.7 1.0	63 67 82	3,3 3,0 7,9		

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

¹See Reliability of Estimates on page 5.



SAMPLE DESIGN

The 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.

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

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 quarter total units in 5 + buildings as estimated by SOMA for that quarter

When all the completed 5+ buildings in the SOC are designated for SOMA, this ratio estimate factor will be close to one. 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,

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

Table 2. Characteristics of Apartments Completed During the Second Quarter of 1984 and Rented Within 3 Months (Revised)

(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 not seasonally adjusted. Data may not add to total due to rounding. Medians are computed using unrounded data.)

	Total u comple	1	-	t of total nits	Percent rented within 3 months		
Item	Number	Sampling errors*	Percent	Sampling error* (percentage points)	Percent	Sampling error* (percentage points)	
Total	84,700	3,790	100	(X)	72	2.9	
RENT CLASSES							
Less than \$300	9,600	1,800	11	1.9	73	8.5	
\$300 to \$349 \$350 to \$399	18,200 20,600	2,420 2,560	21 24	2.4 2.5	76 76	6.0 5.6	
\$400 to \$449	12,100	2,010	24 14	2.1	66	3.0	
\$450 to \$499	12,200	2,020	14	2.1	67	8.0	
\$500 or more	12,200	2,020	14	2.1	- 68	7.9	
Median asking rent	\$386	5,5	(X)	(X)	(X)	(X)	
NUMBER OF BEDROOMS							
Less than 2	39,800	3,328	47	2,5	75	4,1	
2	43,100	3,420	51	2.4	69	4.2	
3 or more	1,800	800	2	0.9	77	18.7	

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

Table 3. Absorption Rates of Privately Financed Nonsubsidized Unfurnished Apartments: 1981 to 1984

	Tot	al		onally d rented		No	t seasona	ally adjust	ed - rent	ed within-		
	units co	mpleted		3 months	3 m	onths	6 m c	onths	9 m c	onths	12 m	onths
Quarter of completion	Number	Sam- pling error*	Per- cent	Sampling error* (per- centage points)								
1981												
January-March April-June July-September October-December	31,600 28,300 35,100 40,400	1,780 1,830 1,930 2,030	78 81 78 82	2.9 2.9 2.8 2.4	77 84 79 81	3.0 2.7 2.7 2.5	94 94 87 95	1.7 1.6 2.3 1.4	98 97 91 98	1.0 1.3 1.9 0.9	99 98 93 99	0.7 1.0 1.7 0.6
1982												
January-March April-June July-September October-December	25,400 30,900 29,900 30,800	1,680 1,800 1,710 1,860	78 76 72 63	3.2 3.1 3.2 3.5	76 79 73 61	3.4 2.9 3.2 3.5	90 92 85 80	2.4 1.9 2.6 2.9	96 95 92 90	1.5 1.6 2.0 2.1	97 97 96 95	1.3 1.2 1.4 1.6
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 97	1.6 1.2 1.2 1.3
1984												
January-March April-June ^r July-September October-December	68,900 84,700 70,700	2,620 3,790 3,660	71 68 63	2.6 3.0 3.4	68 72 65	2.7 2.9 2.2	88 88 (NA)	1.9 2.1 (NA)	94 (NA) (NA)	1.7 (NA) (NA)	(NA) (NA) (NA)	(NA) (NA) (NA)

(Structures with five units or more.)

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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 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-

- 1. 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.
- 2. 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.
- 3. Approximately 95 percent of the intervals from two standard errors below the estimate to two standard error 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 34,700 apartments with two bedrooms in the third quarter of 1984. The standard error of this estimate is 3,110. The 68 percent confidence interval as shown by these data is from 31,590 to 37,810. 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 28,480 to 40,920 (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. Cooperative and Condominium Apartments—Total Completed, Percent of All 5+Units, and Sold Within 3 Months: 1981 to 1984

(Privately financed, nonsubsidized apartments in buildings with five units or more. Data not seasonally adjusted.)

	Total units	completed	Percent 5+ u	1	Units sold within 3 months		
Quarter of completion	Number	Sampling error*	Percent	Sampling error* (percentage points)	Percent	Sampling error* (percentage points)	
1981							
January-March April-June July-September October-December	22,400 30,700 29,500 30,000	1,630 1,880 1,840 1,880	32 35 35 33	2.2 2.0 2.1 2.0	68 67 60 55	3.9 3.3 3.6 3.6	
1982							
January-March April-June July-September October-December	25,600 27,200 24,600 30,400	1,690 1,740 1,640 1,850	37 37 38 37	2.3 2.2 2.4 2.1	57 52 52 55	3.9 3.8 4.0 3.6	
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	4.3 4.0 2.9 3.3	
1984							
January-March April-June ^r July-September October-December	23,600 38,500 44,200	2,150 3,290 3,390	23 28 35	2.0 3.8 3.6	64 72 74	4.8 3.5 2.2	

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

Table 5. Characteristics of Condominium Apartments Completed During the Third Quarter of 1984 and Sold Within 3 Months

(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 are not seasonally adjusted. Data may not add to total due to rounding. Medians are computed using unrounded data.)

	Total compl		Percent un	of total its	Percent sold within 3 months		
Item	Number	Sampling error*	Percent	Sampling error* (percentage points)	Percent	Sampling error* (percentage points)	
Total	44,200	3,390	100	(X)	74	2,2	
PRICE CLASSES							
Less than \$40,000 \$40,000 to \$49,999 \$50,000 to \$74,999 \$75,000 to \$79,999 \$100,000 or more Median asking price	1,600 4,300 13,300 9,100 15,900 \$83,000	750 1,220 2,090 1,750 2,270 3,410	4 10 30 21 36 (X)	1.7 2.6 3.6 3.3 3.6 (X)	88 74 74 67 76 (X)	6.0 7.1 4.0 5.2 4.0 (X)	
NUMBER OF BEDROOMS							
Less than 2 2 3 or more	8,600 28,300 7,300	1,700 2,900 1,580	19 64 17	3.2 2.8 3.1	79 70 83	4.5 2.6 5.0	

*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: 1981 to 1984

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

Quarter	Tot	tal	Unfurn apart	1	Furni apart		Cooperat condom		Fede: subsi	*	Oth	er ¹
of completion	Number	Sampling error*	Number	Sampling error*	Number	Sampling error*	Number	Sampling error*	Number	Sampling error*	Number	Sampling error*
1981												
January-March April-June July-September October-December 1982	70,600 86,700 84,200 91,000	3,430 3,830 3,770 3,930	31,600 28,300 35,100 40,400	1,780 1,830 1,930 2,030	1,400 1,200 1,100 2,300	470 430 410 600	22,400 30,700 29,500 30,000	1,630 1,880 1,840 1,880	10,400 24,000 16,800 14,900	1,210 1,730 1,500 1,440	4,900 2,500 1,700 3,400	860 620 510 720
January-March April-June July-September October-December	68,500 73,000 64,100 82,600	3,380 3,500 3,260 3,730	25,400 30,900 29,900 30,800	1,680 1,800 1,710 1,860	1,800 1,000 1,800 800	530 400 530 350	25,600 27,200 24,600 30,500	1,690 1,740 1,640 1,850	12,900 11,900 5,500 17,700	1,320 1,290 900 1,530	2,800 2,000 2,400 2,800	660 560 610 660
1983 January-March April-June July-September October-December 1984	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
January-March April-June ^r July-September October-December	104,400 138,100 126,900	5,110 7,260 6,940	68,900 84,700 70,700	2,620 3,790 3,660	1,700 2,700 1,800	630 970 790	23,600 38,500 44,200	2,150 3,290 3,390	6,200 9,000 9,200	1,180 1,750 1,760	4,000 3,200 1,000	960 1,060 590

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

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

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