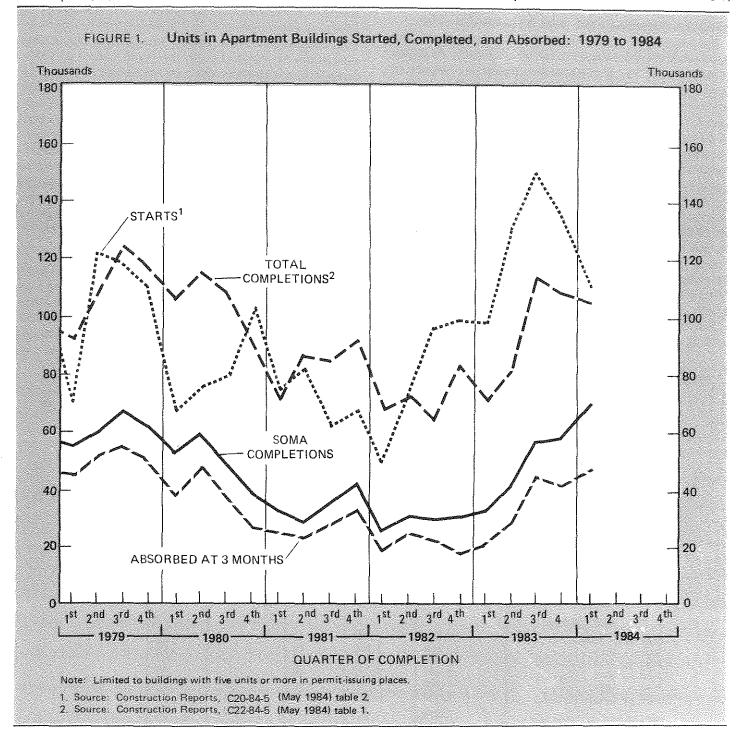
U.S. Department of Commerce BUREAU OF THE CENSUS

U.S. Department of Housing and Urban Development

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Market Absorption of Apartments

Second Quarter 1984 — Absorptions (Completions in First 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 January-March 1984 quarter were 71 percent absorbed (seasonally adjusted) 3 months after their completion. This is the same as the 3-month seasonally adjusted rate for apartments completed during the fourth quarter of 1983 but is ten percentage points higher than the seasonally adjusted rate of 61 percent for first quarter 1983 completions. Apartments which have been on the market for 9 months, those completed during July-September 1983, were 93 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 71- and 93-percent figures are subject to sampling errors (i.e., standard errors) of 2.6 and 1.5 percentage points, respectively. This means that there are about 2 chances out of 3 that a complete count would be in the range of 71 (\pm 2.6) percentage points and 93 (\pm 1.5) percentage points. Sampling errors for the figures that follow are indicated in parenthesis.

A total of 104,400 (\pm 5,110) apartments were completed during the first quarter of 1984. This is about the same as fourth quarter 1983 completions, but represents an increase of 51 (\pm 10.5) percent over first quarter 1983 completions. The number of privately financed, nonsubsidized, unfurnished apartments completed was 70,000 (\pm 2,610), an increase of 18 (\pm 6.3) percent over fourth quarter 1983 completions and 111 (\pm 13.8) percent over completions in the first quarter of 1983.

The median asking rent for newly constructed units was \$386 (± 5.5) in the first quarter of 1984 which was about the same

as the revised \$383 (\pm 4.8) median for the fourth quarter of 1983. Apartments renting for less than \$350 accounted for 31 (\pm 2.7) percent of the total, while those renting for \$350 or more accounted for 69 (\pm 2.7) percent. Approximately 49 (\pm 2.9) percent of newly constructed apartments were built with two bedrooms, about the same as the 48 (\pm 2.9) percent built with less than two bedrooms. Only 3 (\pm 1.0) percent of new apartments had three or more bedrooms.

Approximately 22,300 (\pm 2,110) cooperative and condominium apartments were completed in the first quarter of 1984, a decrease of about 33 (\pm 7.8) percent from fourth quarter 1983 completions. This represents 21 (\pm 2.0) percent of total completions for the quarter. In the fourth quarter of 1983, cooperative and condominium units represented 30 percent of all completions. The 3-month absorption rate for cooperative and condominium apartments during the first quarter was 68 (\pm 4.8) percent. The median asking price for condominium units was \$69,100 (\pm 3,370). For apartments completed in the fourth quarter of 1983, the revised median asking price was \$75,600.

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 6 (\pm 1.1) percent of completions.

Furnished rental units accounted for 2 (\pm 0.7) percent of apartment completions. The remaining 4 (\pm 0.9) 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.

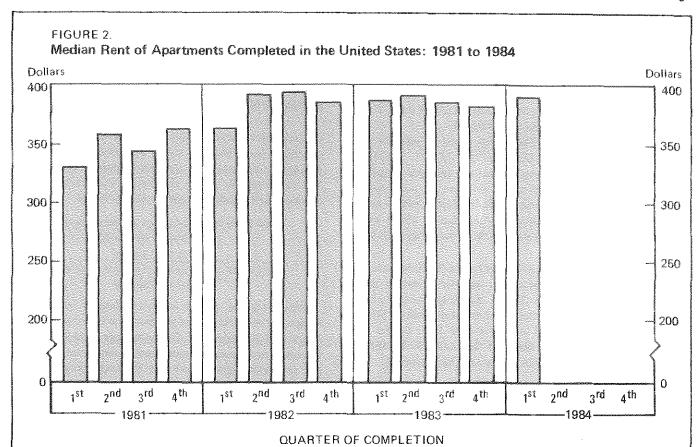
See reliability of estimates on page 5

Table 1. Characteristics of Apartments Completed During the First Quarter of 1984 and Rented Within 3 Months

(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			t of total nits	Percent rented within 3 months		
Item	Number	Sampling error*	Percent	Sampling error* (percentage points)	Percent	Sampling error* (percentage points)	
Total	70,000	2,610	100	(x)	68	2.7	
RENT CLASSES							
Less than \$300	8,800	1,400	13	2.0	75	7.1	
\$300 to \$349	12,800	1,660	18	2.2	75	5.9	
\$350 to \$399	18,600	1,960	27	2.6	67	5.3	
\$400 to \$449	12,400	1,640	18	2.2	61	6.7	
\$450 to \$499	7,800	1,320	11	1.8	62	8.5	
\$500 or more	9,500	1,450	14	2.0	70	7.2	
Median asking rent	\$386	5.5	(x)	(X)	(%)	(X)	
NUMBER OF BEDROOMS							
Less than 2	33,700	2,450	48	2.9	68	3.9	
2	34,100	2,460	49	2.9	68	3.9	
3 or more	2,200	720	3	1.0	67	15.4	

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



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

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 1980-1984** Percent Percent 50 40 40 30 30 20 20 -10 10 0 0 1st 2nd 3rd 4th --1984 ---1982**-**-1980· ---1983-

QUARTER OF COMPLETION

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.

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, as is currently the case, this ratio estimate factor will be close to 1. 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

Table 2. Characteristics of Apartments Completed During the Fourth Quarter of 1983 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 STATE OF THE PROPERTY OF	Total u comple			t of total nits	Percent rented within 3 months		
Item	Number	Sampling errors*	Percent	Sampling error* (percentage points)	Percent	Sampling error* (percentage points)	
Total	59,500	2,270	100	(x)	68	2.4	
RENT CLASSES					:		
Less than \$300	7,300 11,800 16,000 9,500 5,600 9,300 \$383	1,050 1,310 1,500 1,190 920 1,180 4.8	12 20 27 16 9 16 (X)	1.7 2.1 2.3 1.9 1.5 1.9	70 76 67 64 55 68 (x)	6.7 4.9 4.7 6.2 8.4 6.1 (X)	
Less than 2	27,900 29,200 2,400	1,890 1,920 610	47 49 4	2.6 2.6 1.0	68 67 78	3.5 3.5 10.6	

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

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

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

⁽X) Not applicable.

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

(Structures with five units or more.)

	To	tal	Seasonally adjusted reated		Not seasonally adjusted - rented within								
	units completed		within 3 months		3 m	3 months		6 months		9 wonths		12 months	
Quarter of completion	Number	Sam- pling error*	Per- cent	Sampling error* (per- centage points)	Per- cent	Sampling error* (per- centage points)	Per- cest	Sampling error* (per- centage points)	Per- cent	Sampling error* (per- centage points)	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 ^r October-December ^r	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 (NA)	2.1 1.6 1.3 (NA)	94 96 (NA) (NA)	1.6 1.2 (NA) (NA)	
1984 January-March April-June July-September October-December	70,000	2,610	71	.2.6	68	2.7	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	

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

(NA) Not available.

rRevised.

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 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.
- 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 34,100 apartments with two bedrooms in the first quarter of 1984. The standard error of this estimate is 2,460. The 68 percent confidence interval as shown by these data is from 31,640 to 36,560. 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 29,180 to 39,020 (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. 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	of all nits	Units sold within 3 months		
Quarter of completion	Number	Sampling error*			Percent	Sampling error* (percentage points)	
1981	***************************************						
January-March	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	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	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	22,300	2,110	21	2.0	68	4.8	

Table 5. Characteristics of Condominium Apartments Completed During the First 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.)

the contract of the contract o	Total comp	units Leted		of total	Percent sold within 3 months		
Item	Number Sampling error*		Percent	Sampling error* (percentage poiets)	Percent	Sampling error* (percentage points)	
Total	22,100	2,100	100	(x)	68	4.8	
PRICE CLASSES							
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.	1,200 3,100 8,900 4,300 4,700 \$69,100	530 850 1,410 990 1,040 3,370	5 14 40 19 21 (X)	2.3 3.6 5.1 4.1 4.2 (X)	79 78 66 64 65 (x)	18.1 11.4 7.7 11.3 10.7 (X)	
NUMBER OF BEDROOMS Less than 2	5,000 15,000 2,200	1,070 1,780 720	23 68 10	4.4 4.8 3.1	63 69 72	10,5 5.8 14.7	

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

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	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*
1981						J						
January-March April-June July-September October-December	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
January-March April-June July-September ^r October-December ^r	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 October-December	104,400	5,110	70,000	2,610	1,700	630	22,300	2,110	6,500	1,210	3,900	950

^{*}Standard error within range of about 2 chances out of 3. $^{\rm r}$ Revised.

⁽X) Not applicable.

¹⁰ther includes turnkey housing (privately built and sold to local public housing authorities subsequent to completion).

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