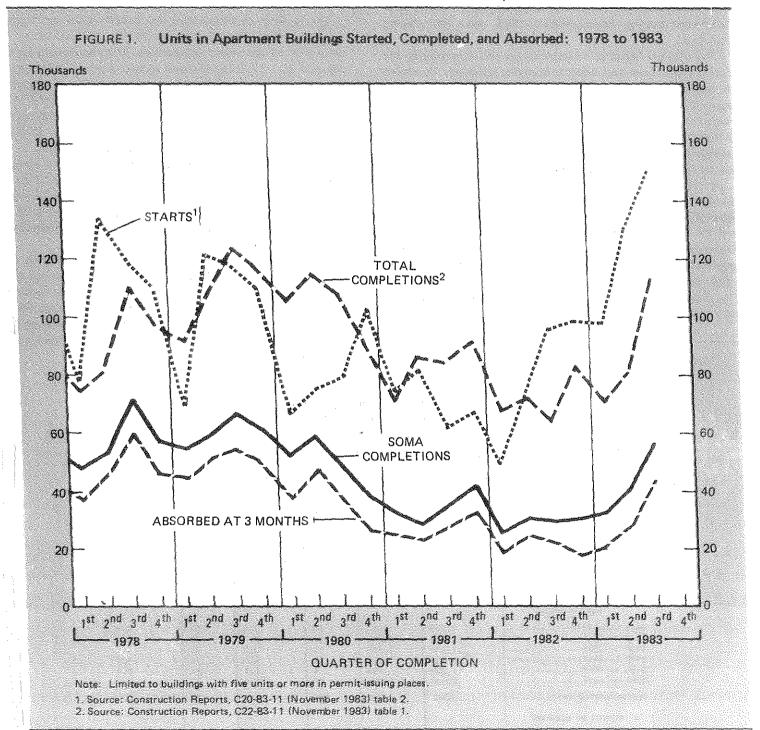
U.S. Department of Commerce BUREAU OF THE CENSUS

U.S. Department of Housing and Urban Development

H130-83-Q4 Issued March 1984

Market Absorption of Apartments

Fourth Quarter 1983 — Absorptions (Completions in Third Quarter 1983)



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 1983 quarter were 75 percent absorbed (seasonally adjusted) 3 months after their completion. This is up 10 percentage points from the 3-month seasonally adjusted rate for apartments completed during the second quarter of 1983, but is about the same as the seasonally adjusted rate of 72 percent for third quarter 1982 completions. Apartments which have been on the market for 9 months, those completed during January-March 1983, were 90 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 75 and 90 percent figures are subject to sampling errors (i.e., standard errors) of 2.3 and 2.1 percentage points, respectively. This means that there are about 2 chances out of 3 that a complete count would be in the range of 75 (\pm 2.3) percentage points and 90 (\pm 2.1) percentage points. Sampling errors for the figures that follow are indicated in parenthesis.¹

A total of 112,600 (±4,410) apartments were completed during the third quarter of 1983. This represents an increase of about 40 (±8.4) percent from second quarter 1983 completions and 76 (±11.3) percent over third quarter 1982 completions. The number of privately financed, nonsubsidized, unfurnished apartments completed was 56,100 (±2,300) an increase of 35 (±8.4) percent over completions in the second quarter of 1983. This figure represented the largest number of completions of such units since the second quarter of 1980.

The median asking rent for newly constructed units was \$382 (± 6.0) in the third quarter. This was not significantly different from the \$392 (± 7.0) median for the second quarter of 1983. Apartments renting for less than \$350 accounted for 36 (± 2.5) percent of the total, while those renting for \$350 or more accounted for 64 (± 2.5) percent. Approximately 51 (± 2.7) percent of newly constructed apartments were built with two bedrooms and about 43 (± 2.6) percent were built with less than two. Only 6 (± 1.3) percent of new apartments had three or more bedrooms.

The number of cooperative and condominium apartments completed in the third quarter was 38,100, or about 34 (\pm 1.8) percent of all apartment completions. This represented an increase of 85 (\pm 17.8) percent over second quarter 1983 completions and was the largest number of cooperative and condominium units completed since the third quarter of 1980. The 3-month absorption rate for cooperative and condominiums during the third quarter was 74 (\pm 2.8) percent. The median asking price for condominium units was \$87,300 (\pm 2,430).

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 building containing apartments in the FHA rent supplement program) accounted for 8 (±1.0) percent of completions.

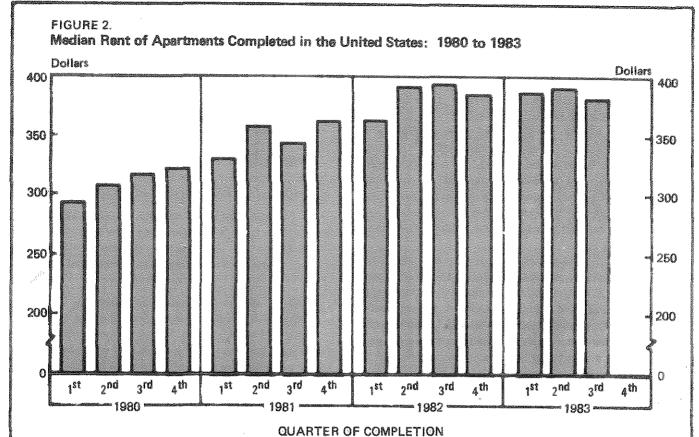
Furnished rental units accounted for 2 (±0.5) percent of apartment completions. The remaining 7 (±1.0) percent of the units are not in scope of the survey and include turnkey housing (privately built for and sold to local public housing authorities subsequent to completion). The data on privately financed un include privately owned housing subsidized by State and local governments.

Table 1. CHARACTERISTICS OF APARTMENTS COMPLETED DURING THE THIRD QUARTER OF 1983 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.)

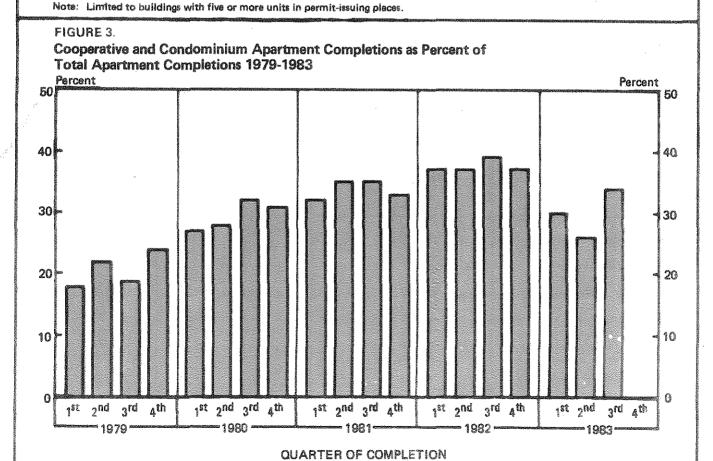
	Total u comple			t of total mits	Percent rented within 3 months		
Item	Number	Sampling error*	Percent	Sampling error* (percentage points)	Percent	Sampling error* (percentage points)	
Total	56,100	2,300	100	(X)	78	2,2	
RENT CLASSES							
Less than \$300	7,700	1,080	14	1.8	87	4.8	
\$300 to \$349	12,400	1,350	22	2.2	83	4,2	
\$350 to \$399	12,300	1,340	22	2.2	75	4.9	
\$400 to \$449	9,900	1,210	18	2.0	78	5.2	
\$450 to \$499	5,200	890	9	1.5	66	8.3	
\$500 or more	8,600	1,130	15	1.9	73	6.0	
Median asking rent	\$382	6.0	(X)	(X)	(X)	(X)	
NUMBER OF BEDROOMS							
Less than 2	24,100	1,790	43	2.6	76	3.5	
2	28,600	1,920	51	2.7	78	3,1	
3 or more	3,300	710	6	1.3	93	5.6	

¹ See reliability of estimates on page 5.



QUANTER OF COMPLETIO

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



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, all 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 nonpermitissuing 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 SECOND 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.)

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Item	Number	Sampling errors*	Percent	Sampling error* (percentage points)	Percent	Sampling error* (percentage points)	
Total	41,600	1,940	100	(x)	69	2.8	
RENT CLASSES							
Less than \$300. \$300 to \$349. \$350 to \$399. \$400 to \$449. \$450 to \$499. \$500 or more. Median asking rent	5,700 7,500 9,100 7,300 5,300 6,700 \$392	920 1,050 1,150 1,040 890 1,000	14 18 22 18 13 16 (X)	2.1 2.4 2.6 2.4 2.1 2.3 (X)	77 64 72 64 69 69	7.0 7.0 5.9 7.1 8.0 7.1 (X)	
Less than 2	19,800 19,900 1,900	1,600 1,600 540	48 48 5	3.1 3.1 1.3	66 71 78	4.2 4.0 11.9	

^{*}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.

Table 3. ABSORPTION RATES OF PRIVATELY FINANCED NONSUBSIDIZED UNFURNISHED APARTMENTS: 1980 TO 1983

(Structures with five units or more.)

Stanton and an in-	То	al			Seasonally		Not seasonally adjusted - rented within								
	units completed		adjusted rented within 3 months		3 months		6 months		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)			
1980															
January-MarchApril-June July-September October-December	51,900 58,800 47,400 37,900	2,220 2,340 2,210 2,000	74 76 76 74	2.4 2.2 2.5 2.8	72 79 77 71	2.5 2.1 2.4 2.9	89 93 90 86	1.7 1.3 1.7 2.2	95 96 96 94	1.2 1.0 1.1 1.5	97 98 98 97	0.9 0.7 0.8 1.1			
January-March April-June July-September	31,600 28,300 35,100 40,400	1,780 1,830 1,930	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	98 97 91 98	1.0 1.3 1.9 0.9	99 - 98 - 93 - 99	0.7 1.0 1.7 0.6			
October-December	40,400	2,030	64	2.4	ot	2.5	95	1.4	98	0.9	99	0.6			
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	33,100 41,600 56,100	1,780 1,940 2,300	61 65 75	3.4 2.9 2.3	59 69 78	3.4 2.8 2.2	81 87 (NA)	2.7 2.1 (NA)	90 (NA) (NA)	2.1 (NA) (NA)	(NA) (NA) (NA)	(NA) (NA) (NA)			

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

(NA) Not available.

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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 28,600 apartments with two bedrooms in the third quarter of 1983. The standard error of this estimate is 1,920. The 68 percent confidence interval as shown by these data is from 26,680 to 30,520. 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 24,769 to 32,440 (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: 1980 TO 1983

(Privately financed, nonsubsidized apartments in buildings with five units or more.

Data not seasonally adjusted.)

	Total units	completed	Percent 5+ u	of all rits	Units sold within 3 months		
Quarter of completion	Number	Sampling error*	Percent	Sampling error* (percentage points)	Percent	Sampling error* (percentage points)	
1980					***************************************		
January-MarchApril-JuneJuly-SeptemberOctober-December	28,400 32,600 34,200 27,700	1,900 2,020 2,030 1,830	27 28 32 31	1.7 1.7 1.8 1.9	73 72 72 70	3.3 3.1 3.1 3.5	
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 ^r April-June ^r	20,900 20,600 38,100	1,590 1,630 2,120	30 26 34	2.2 1.9 1.8	56 69 74	4.3 4.1 2.8	

Table 5. CHARACTERISTICS OF CONDOMINIUM APARTMENTS COMPLETED DURING THE THIRD QUARTER OF 1983 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	1	Percent (un:	1	Percent sold within 3 months		
Item	Number	Sampling error*	Percent	Sampling error* (percentage points)	Percent	Sampling error* (percentage points)	
Total	37,900	2,110	100	(X)	74	2.8	
PRICE CLASSES	i i			Į.			
Less than \$40,000 \$40,000 to \$49,999 \$50,000 to \$74,999 \$75,000 to \$99,999 \$100,000 or more	1,200 3,300 8,300 12,600 12,600	430 710 1,120 1,350 1,350	3 9 22 33 33	1.1 1.8 2.7 3.0 3.0	85 82 71 75 72	12.9 8.4 6.3 4.8 5.0	
Median asking price	\$87,300	2,430	(X)	(X)	(X)	(X)	
NUMBER OF BEDROOMS							
Less than 2	5,600 26,500 5,800	920 1,860 940	15 70 15	2.3 3.0 2.3	76 74 73	7.2 3.4 7.3	

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

Table 6. HOUSING UNITS COMPLETED IN BUILDINGS WITH FIVE UNITS OR MORE: 1980 TO 1983

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

Quarter of completion	Total		Unfurnished apartments		Furnished apartments		Cooperatives and condominiums		Federally subsidized		Other ¹	
	Number	Sampling error*	Number	Sampling error*	Number	Sampling error*	Number	Sampling error*	Number	Sampling error*	Number	Sampling error*
1980												
January-March April-June July-September October-December	105,200 115,600 107,700 90,500	4,250 4,470 4,300 3,920	51,900 58,800 47,400 37,900	2,220 2,340 2,210 2,000	3,200 2,800 1,400 2,300	700 660 470 600	28,400 32,600 34,200 27,700	1,900 2,020 2,030 1,830	20,300 20,200 19,500 19,900	1,660 1,670 1,640 1,620	1,400 1,200 5,200 2,700	470 430 890 650
1981										-		
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
1982												
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 30,400	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	69,200 80,500 112,600	3,400 3,680 4,410	33,100 41,600 56,100	1,780 1,940 2,300	300 800 1,700	220 350 520	20,900 20,600 38,100	1,590 1,630 2,120	12,500 13,400 9,000	1,150 1,310 1,160	2,400 4,000 7,700	930 920 1,090

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

⁽X) Not applicable.

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

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