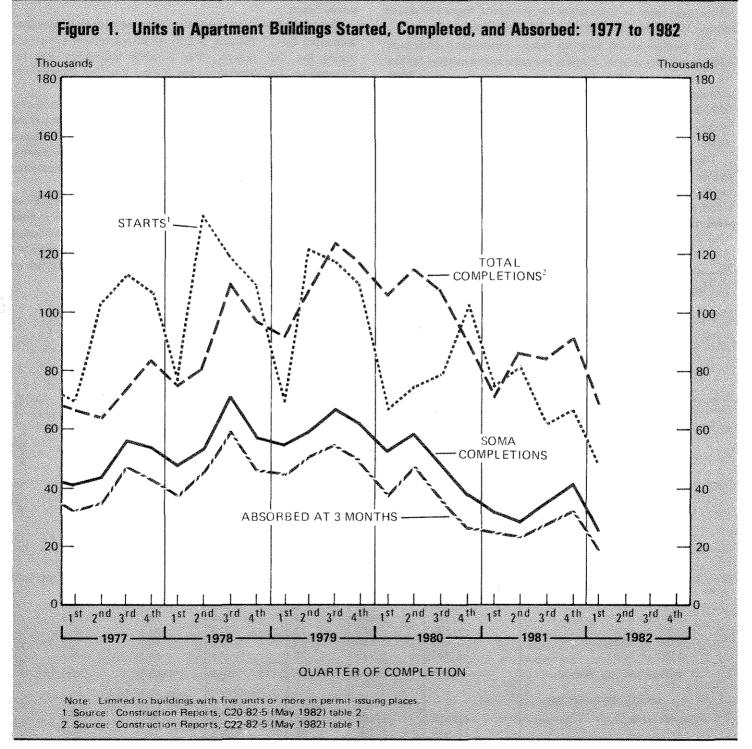
U.S. Department of Commerce BUREAU OF THE CENSUS

U.S. Department of Housing and Urban Development

H-130-82-Q2 Issued September 1982

Market Absorption of Apartments

Second Quarter 1982 — Absorptions (Completions in First Quarter 1981)



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SUMMARY OF FINDINGS

Privately financed, nonsubsidized, unfurnished apartments completed during the January-March 1982 quarter were 79 percent absorbed (seasonally adjusted) 3 months after their completion. This is about the same as both the seasonally adjusted 3-month rate of 82 percent for apartments completed during the fourth quarter of 1981 and the seasonally adjusted rate of 78 percent for first quarter 1981 completions. The non-seasonally adjusted 3-month rate was 76 percent. Apartments which have been on the market for 9 months, those completed during July-September 1981, were 91 percent absorbed.

The median asking rent for newly constructed units was \$362 in the first quarter which is the same as the median for the fourth quarter of 1981. Apartments renting for less than \$200 accounted for 3 percent of the total, while those renting for \$200-\$299 accounted for 19 percent. In comparison, 43 percent rented for \$300-\$399 and the remainder rented for \$400 or more.

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 79 and 91 percent figures are subject to sampling errors (i.e., standard errors) of 3.2 and 1.9 percentage points, respectively. This means that there are about 2 chances out of

3 that a complete count would be in the range of 79 (± 3.2) percentage points and 91 (± 1.9) percentage points. Sampling errors for the figures that follow are indicated in parenthesis.¹

A total of 68,500 (± 3,380) apartments were completed during the first quarter of 1982. Of the total 25,400 (± 1,680) or 37 percent (± 2.3) were privately financed, unfurnished rental units built without federal subsidy in buildings with five or more apartments. This is one of the lowest number of quarterly completions for this type of apartment since the survey began.

Cooperative and condominium apartment completions also accounted for 37 percent (\pm 2.3) of all apartments completed during the first quarter. The 3-month absorption rate for cooperatives and condominiums during the first quarter was 57 percent (\pm 3.9).

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 19 percent (± 1.9) of completions.

Furnished rental units accounted for 3 percent $(\pm .8)$ of apartment completions. The remaining 4 percent $(\pm .9)$ include turnkey housing (privately built 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 DURING THE FIRST QUARTER
OF 1982 AND RENTED WITHIN 3 MONTHS

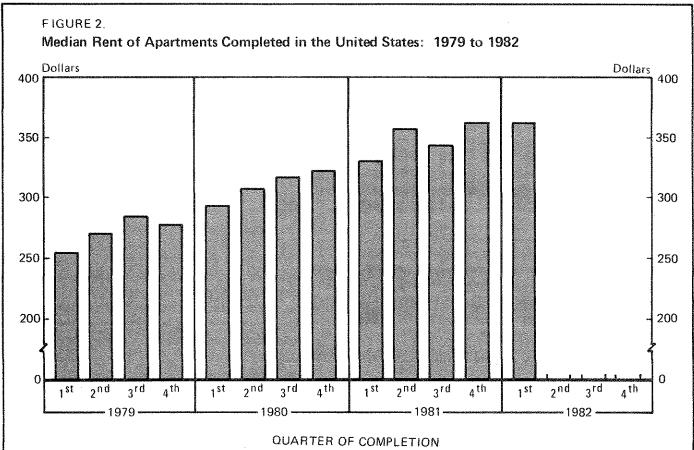
(Privately financed, nonsubsidized, unfurnished apartments. Data regarding number of bedrooms and asking rent are collected at the initial interview, i.e., 3 months following completion.

Data not seasonally adjusted)

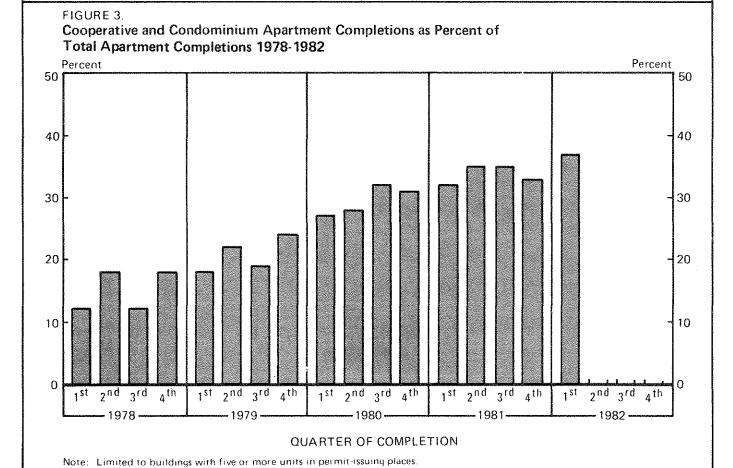
	Total ur comple			t of total nits	Percent rented within 3 months		
Item	Number	Sampling error*	Percent	Sampling error* (percentage points)	Percent	Sampling error* (percentage points)	
Total	25,400	1,680	100	(X)	76	3.4	
RENT CLASSES							
Less than \$200	700 2,100 2,700 5,900 5,000 8,900 \$362	330 570 640 930 860 1,130	3 8 11 23 20 35 (X)	1.3 2.1 2.5 3.3 3.2 3.8 (X)	97 82 75 83 74 68 (X)	8.1 10.5 10.5 6.1 7.8 6.2 (X)	
Less than 2	11,500 12,400 1,500	1,260 1,300 480	45 49 6	3.9 3.9 1.9	79 75 55	4.8 4.9 16.1	

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

¹ See reliability of estimates on page 5.



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



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 FOURTH QUARTER
OF 1981 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)

	Total comple			t of total	Percent rented within 3 months		
Item	Number	Sampling error*	Percent	Sampling errorx (percentage points)	Percent	Sampling error* (percentage points)	
Total	40,400	2,030	100	· (X)	81	2.5	
RENT CLASSES							
Less than \$200	600	310	1	.6	79	20.9	
\$200 to \$249	1,400	470	3	1.1	75	14.5	
\$250 to \$299	7, 100	1,030	1.8	2.4	89	4.7	
\$300 to \$349	9,300	1, 170	23	2.6	75	5.6	
\$350 to \$399	7,500	1,060	1.9	2.5	77	6.1	
\$400 or more	14,500	1,420	36	3.0	83	3.9	
Median asking rent	\$362	8.4	(x)	(X)	(X)	(X)	
NUMBER OF BEDROOMS							
Less than 2	18,400	1,570	46	3.1	81	3.6	
2	19,000	1,590	47	3.1	78	3.8	
3 or more	3,000	680	7	1.6	93	5.,,9,	

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: 1979 TO 1982

(Structures with five units or more).

Concession and the second	Total		Seasonally adjusted rented		Not seasonally adjusted - rented within							
	units c	ompleted		3 months	3 m	onths	6 гл	onths	9 m	onths	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)
1979												
January-MarchApril-JuneJuly-SeptemberOctober-December	53,900 59,900 66,700 60,600	2,060 2,260 2,430 2,360	86 80 81 84	1.9 2.1 1.9 1.9	83 84 82 81	2.0 1.9 1.9 2.0	95 94 91 93	1.2 1.2 1.4 1.3	99 97 97 97	0.5 0.9 0.8 0.9	99 98 99 99	0.5 0.7 0.5 0.5
January-March	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 October-December ^x	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 (NA)	1.0 1.3 1.9 (NA)	99 98 (NA) (NA)	0.7 1.0 (NA) (NA)
January-MarchApril-JuneJuly-SeptemberOctober-December	25,400	1,680	79	3.2	76	3.4	(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 12,400 apartments with two bedrooms in the first quarter of 1982. The standard error of this estimate is 1,300. The 68 percent confidence interval as shown by these data is from 11,100 to 13,700. 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 9,800 to 15,000 (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 ABSORBED WITHIN 3 MONTHS: 1979 TO 1982

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

Data not seasonally adjusted)

	Total units	completed		nt of all units	Absorbed within 3 months		
Quarter of completion	Number	Sampling error*	Percent	Sampling error* (percentage points)	Percent	Sampling error* (percentage points)	
19 79							
January-March April-June July-September October-December	16, 700 23, 200 23, 300 28, 600	1,510 1,760 1,790 1,930	18 22 19 24	1.6 1.6 1.4 1.6	80 73 76 72	3.9 3.6 3.4 3.3	
1980		į.					
January-March	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	
1982							
January-March	25,500	1,690	37	2.3	57	3.9	

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Table 5. HOUSING UNITS COMPLETED IN BUILDINGS WITH FIVE UNITS OR MORE: 1979 TO 1982

(Limited to buildings in permit-issuing places)

Quarter of completion	То	tal		nished ments	1	ished tments	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*
1979						and the state of t						
January-March April-June July-September October-December	91,000 107,600 123,400 117,300	3,930 4,300 4,630 4,510	53,900 59,900 66,700 60,600	2,060 2,260 2,430 2,360	3,500 1,900 3,700 3,000	730 540 760 680	16,700 23,200 23,300 28,600	1,510 1,760 1,790 1,930	14,800 21,700 27,100 23,900	1,440 1,710 1,900 1,800	2,000 900 2,600 1,200	560 380 640 430
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
January-March April-June July-September October-December ^F	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	3,380	25,400	1,680	1,800	530	25,500	1,690	13,000	1,330	2,800	660

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

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

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