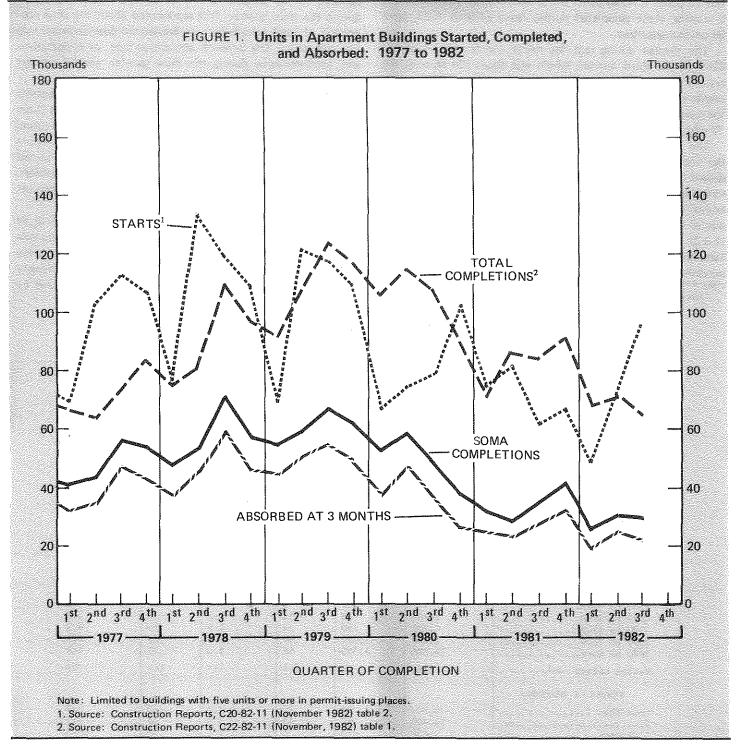
U.S. Department of Commerce BUREAU OF THE CENSUS

U.S. Department of Housing and Urban Development

H-130-82-04 Issued March 1983

Market Absorption of Apartments

Fourth Quarter 1982 – Absorptions (Completions in Third Quarter 1982)



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SUMMARY OF FINDINGS

Privately financed, nonsubsidized, unfurnished apartments completed during the July-September 1982 quarter were 73 percent absorbed (seasonally adjusted) 3 months after their completion. This is about the same as the seasonally adjusted 3-month rate of 76 percent for apartments completed during the second quarter of 1982 and is not significantly different from the seasonally adjusted rate of 78 percent for third quarter 1981 completions. The non-seasonally adjusted 3-month rate was 73 percent. Apartments which have been on the market for 9 months, those completed during January-March 1982, were 96 percent absorbed.

The median asking rent for newly constructed units was \$395 in the third quarter, which was about the same as the revised \$392 median for the second quarter of 1982. Apartments renting for less than \$350 accounted for 28 percent of the total, while those renting for \$350 or more accounted for 72 percent.

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 73 and 96 percent figures are subject to sampling errors (i.e., standard errors) of 3.2 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 73 (± 3.2) percentage points, and 96 (± 1.5) percentage points. Sampling errors for the figures that follow are indicated in parenthensis.¹

A total of 64,100 (\pm 3,260) apartments were completed during the third quarter of 1982, a decrease of about 12 percent (\pm 6.0) from second quarter completions. Of the total, 29,900 (\pm 1,710) or 47 percent (\pm 2.5) were privately financed, unfurnished rental units built without federal subsidy in buildings with five or more apartments. This is about the same number of completions for this type apartment as in the second quarter.

Cooperative and condominium apartment completions accounted for 39 percent (\pm 2.4) of all apartments completed during the third quarter. This represented about the same proportion of total completions as the second quarter percentage for such units. The 3-month absorption rate for cooperatives and condominiums during the third quarter was 53 percent (\pm 4.0).

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 Ioans (Section 202) and all units in buildings containing apartments in the FHA rent supplement program) accounted for 8 percent (± 1.3) of completions. In the second quarter, units in federally subsidized properties accounted for 16 percent of all apartment completions.

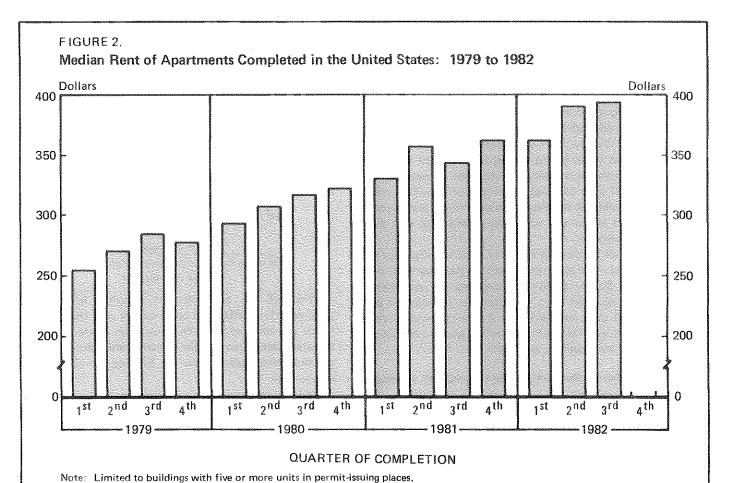
Furnished rental units accounted for 3 percent (± 0.8) of apartment completions. The remaining 4 percent (± 1.0) include turnkey housing (privately built and sold to local public housing authorities subsequent to completion). The data on privately financed units include privately owned housing subsidized by State and local governments.

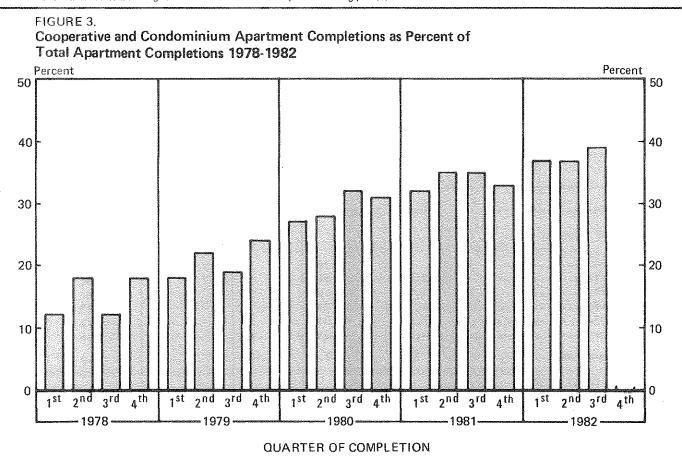
Table 1. CHARACTERISTICS OF APARTMENTS COMPLETED DURING THE THIRD QUARTER
OF 1982 AND RENTED WITHIN 3 MONTHS

(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. Data may not add to total due to rounding. Medians are computed using

	Total u comple		t	t of total nits	Percent rented within 3 months		
Item	Number	Sampling error*	Percent	Sampling error* (percentage points)	Percent	Sampling error* (percentage points)	
Total	29,900	1,710	100	(x)	73	3.2	
Less than \$200	300 600 3,300 4,200 7,100 14,300 \$395	220 310 710 790 1,020 1,370	1 2 11 14 24 48 (X)	0.7 1.0 2.3 2.5 3.1 3.6 (X)	91 84 80 70 75 70 (X.)	20.8 18.8 8.8 6.5 4.8	
Less than 2	14,900 13,600 1,400	1,390 1,340 470	50 45 5	3.6 3.6 1.6	69 75 90	4.8 4.7 10.1	

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 SECOND QUARTER OF 1982 AND RENTED WITHIN 3 MONTHS (REVISED)

(Privately financed, nonsubsidized, unfirmished 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	30,900	1,800	100	(x)	79	2.9	
Less than \$200	200 2,000 3,200 4,100 7,000 14,400 \$392	180 560 700 790 1,010 1,390 7.9	1 6 10 13 23 47 (X)	0.7 1.7 2.1 2.4 3.0 3.6 (X)	93 96 81 82 77 76 (x)	22.7 5.5 8.7 7.5 6.3 4.5	
Less than 2	13,900 14,700 2,200	1,370 1,410 580	45 48 7	3.6 3.6 1.8	76 81 88	4.6 4.1 8.7	

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).

Entities 2.200 til otto kilosida oli Pistikida kokelusu - mes == 44 V-vii kokila oli kulla valises asas ese	Tot			Seasonally adjusted rented		Not seasonally adjusted - rented within								
	units c	ompleted		a rented 3 months	3 m	onths	6 ю	onths	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-	Sampling error* (per- centage points)		
1979	2													
January-MarchApril-JuneJuly-SeptemberOctober-December	5 3, 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		
L980														
January-March April-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		
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-Juner July-September October-December	25,400 30,900 29,900	1,680 1,800 1,710	78 76 73	3.2 3.1 3.2	76 79 73	3.4 2.9 3.2	90 92 (NA)	2.4 1.9 (NA)	96	1.5	(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 13,600 apartments with two bedrooms in the third quarter of 1982. The standard error of this estimate is 1,340. The 68 percent confidence interval as shown by these data is from 12,260 to 14,940. 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 10,920 to 16,280 (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, nonsubisidized 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)	
1979		The second secon		44 - 1790 9 14 M 1000	NOTIFICATION AND AND COLUMNICATION AND THE PROPERTY OF THE PRO		
January -March	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							
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 3.6	
1982							
January-March	25,600 27,200 24,800	1,690 1,740 1,650	37 37 39	2.3 2.2 2.4	57 52 53	3.9 3.8 4.0	

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

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

Quarter of completion	To	Total		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 @rror*
1979												
January-March April-June July-September October-December	91,000	3,930	53,900	2,060	3,500	730	16,700	1,510	14,800	1,440	2,000	560
	107,600	4,300	59,900	2,260	1,900	540	23,200	1,760	21,700	1,710	900	380
	123,400	4,630	66,700	2,430	3,700	760	23,300	1,790	27,100	1,900	2,600	640
	117,300	4,510	60,600	2,360	3,000	680	28,600	1,930	23,900	1,800	1,200	430
January-March	105,200	4,250	51,900	2,220	3,200	700	28, 400	1,900	20,300	1,660	1,400	470
April-June	115,600	4,470	58,800	2,340	2,800	660	32, 600	2,020	20,200	1,670	1,200	430
July-September	107,700	4,300	47,400	2,210	1,400	470	34, 200	2,030	19,500	1,640	5,200	890
October-December	90,500	3,920	37,900	2,000	2,300	600	27, 700	1,830	19,900	1,620	2,700	650
January-March April-June July-September October-December	70,600	3,430	31,600	1,780	1,400	470	22,400	1,630	10,400	1,210	4,900	860
	86,700	3,830	28,300	1,830	1,200	430	30,700	1,880	24,000	1,730	2,500	620
	84,200	3,770	35,100	1,930	1,100	410	29,500	1,840	16,800	1,500	1,700	510
	91,000	3,930	40,400	2,030	2,300	600	30,000	1,880	14,900	1,440	3,400	720
January-March April-Juner July-September October-December	68,500	3,380	25,400	1,680	1,800	530	25,600	1,690	12,900	1,320	2,800	660
	73,000	3,500	30,900	1,800	1,000	400	27,200	1,740	11,900	1,290	2,000	560
	64,100	3,260	29,900	1,710	1,800	530	24,800	1,650	5,200	880	2,400	620

^{*}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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