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## Market Absorption of Apartments

ANNUAL 1986 ABSORPTIONS<br>(Completions in 1985)

## SUMMARY

During 1985, completions of privately financed, nonsubsidized, unfurnished rental apartments in buildings of five units or more totaled 364,500 units. This represents an increase of about 16 percent from the 313,200 units completed in 1984. Sixty-five percent of these units were rented within the first 3 months of completion, 84 percent within 6 months, 92 percent within 9 months and 95 percent were rented within a year of completion.

About 51 percent of new unfurnished apartments were built with two bedrooms and 43 percent were built with one bedroom. Units with three or more bedrooms and those with no bedrooms accounted for 3 and 2 percent, respectively. The median asking rent for apartments completed in 1985 was $\$ 432$, an increase of about 10 percent from the $\$ 393$ median for similar units completed in 1984 . Units renting for $\$ 400$ or more accounted for 61 percent of newly completed units. Of this group 28 percent rented for $\$ 500$ or more. Less than half ( 47 percent) of the newly built units in 1984 rented for $\$ 400$ or more, while only 17 percent went for $\$ 500$ or more. Apartments available for under $\$ 400$ were 70 percent rented 3 months after completion and those available for $\$ 400$ or more were 63 percent rented after 3 months. About 42 percent of the new units included airconditioning in rental payments and about 77 percent had swimming pools available at no extra cost.

A large majority ( 95 percent) of unfurnished apartments were built inside metropolitan statistical areas in 1985, with 43 percent located inside central city and 52 percent in suburban areas. Regionally, slightly under one-half ( 46 percent) of new apartments were built in the South a decrease from 62 percent for this region in 1984. The percentage of completions in the West increased to 37 percent in 1985 compared to 24 percent in 1984. Approximately 15 percent of the nonsubsidized, unfurnished rental units completed in 1986 were built in the Midwest and only 2 percent in the Northeast region.

The data are based on a sample survey and, consequently, the figures cited are subject to sampling variability. Sampling errors (i.e., standard errors) for these figures can be calculated by using tables $A$ and $B^{1}$. These standard errors imply that there are about 2 chances out of 3 that a complete count would be contained in the interval around the estimate defined by the standard error.

[^0]In 1985, a total of about 533,300 apartments were completed in buildings with five units or more which was not significantly different from the 506,000 apartments completed in 1984. Sixty-eight percent were nonsubsidized, unfurnished apartments up from the 62 percent in 1984. Of the remainder, cooperatives and condominiums with 135,800 units accounted for 25 percent of the new completions. The 3 -month absorption rate for cooperative and condominium apartments in 1985 was 65 percent, not significantly different from the 69 percent absorbed in 3 months in 1984.

Cooperative and condominium apartments are predominantly two bedrooms or larger ( 78 percent). Fifty-nine percent of these units were built in the South, 19 percent in the West, 14 percent in the Northeast and 8 percent in the Midwest regions of the United States. The 14 percent completed in the Northeast is double what it was in 1984, and, as in 1984, there were more than twice as many cooperative and condominiums built in the Northeast than rental apartments. The median asking price for condominium apartments built in 1985 was $\$ 88,500$ compared to the $\$ 76,500$ median asking price for 1984 . About 37 percent of the apartments completed in 1985 had an asking price of $\$ 100,000$ or more, while only 4 percent were being sold for under $\$ 40,000$.

Furnished rental units accounted for 1 percent of the total number of privately financed apartments in buildings with five units or more. Furnished units tended to be smaller than unfurnished units. Apartments with fewer than two bedrooms accounted for 73 percent of furnished units while less than half ( 45 percent) of the unfurnished had fewer than two bedrooms. The median asking rent for furnished units was \$379, considerably less than the $\$ 432$ for unfurnished units.

Federally subsidized properties accounted for 2 percent of total units completed. Completions of these types of units decreased from 28,500 in 1984 to 12,000 in 1985 and is only about one-fourth ( 25 percent) the number $(47,700$ ) completed in 1983. These units are built under the following programs of the Department of Housing and Urban Development: Low income Hous. ing Assistance (Section 8), Senior Citizens Housing Direct Loans (Section 202), and all units in buildings containing apartments in the FHA rent supplement program. An additional 3 percent of all the units are excluded for other reasons and include timesharing units, continuing care retirement units, and 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.

## SAMPLE DESIGN

The Survey of Market Absorption (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.

## 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

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, to some extent, the sampling variability of the estimates of totals. Annual estimates are obtained by summing the four quarterly final estimates.

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.

[^1]
## 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 errors 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.

The reliability of an estimated absorption rate (i.e., a percentage) computed by using sample data for both the numerator and denominator depends upon both the size of the rate and the size of the total on which the rate is based. Estimated rates of this kind are relatively more reliable than the corresponding estimates of the numerators of the rates, particularly if the rates are 50 percent or more.

The figures presented in tables $A$ and $B$ are approximations to the standard errors of various estimates shown in the report. Table A presents standard errors for estimated totals, and table B presents standard errors of estimated percents. In order to derive standard errors that would be applicable to a wide variety of items and could be prepared at a moderate cost, a number of approximations were required. As a result, the tables of standard errors provide an indication of the order of magnitude of the standard errors rather than the precise standard error for
any specific item. Standard errors for values not shown in tables $A$ or $B$ can be obtained by linear interpolation.

## ILLUSTRATIVE USE OF STANDARD ERROR TABLES

Table 1 of this report shows that 41,600 units completed in 1985 rented for $\$ 300$ to $\$ 349$. Table A shows the standard error of an estimate of this size to be approximately 4,178 . The 68 percent confidence interval as shown by these data is from 37,422 to 45,778 . 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 33,244 to 49,956 (using twice the standard error) with 95 percent confidence.

Table 1 shows the rate of absorption after 3 months for these units is 69 percent. Table B shows the standard error on a 69 percent rate on a base of 41,600 to be approximately 4.5 percent. The 68 percent confidence interval for this estimate is from 64.5 to 73.5 percent. Therefore, a conclusion that the average estimate derived from all possible samples lies within a range computed in this wa!' would be correct for roughly 68 percent of all possible sampl.. Similarly, we could conclude that the average estimate derived from all possible samples lies within the interval from 60.0 to 78.0 (using twice the standard error) with 95 percent confidence.

Figure 1. Percent of Apartments Absorbed, by Quarter of Completion,by Months on the Market: 1985


Table 1. Absorption Rates for Apartments Completed, by Number of Bedrooms and Rent, for the United States: 1985
(Privately financed, nonsubsidized, unfurnished apartments in buildings with five units or more. Data regarding number of bedrooms and asking rent are collected at the initial interview, i.e., 3 months following completion. Data may not add to total due to rounding. Medians are computed using unrounded data.)

| Characteristics | Total |  | Percent absorbed within-- |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number | Percent | 3 months | 6 months | 9 months | 12 months |
| Total................................ | 364,500 | 100 | 65 | 84 | 92 | 95 |
| Less than \$300.......... . . . . . . . . . . . . . . . | 30,500. | 8 | 69 | 87 | 93 | 95 |
| \$300 to \$349...... . . . . . . . . . . . . . . . . . . . . . | 41,600 | 11 | 69 | 86 | 93 | 96 |
| \$350 to \$399. | 72,000 | 20 | 71 | 88 | 94 | 97 |
| \$400 to \$449.. . . . . . . . . . . . . . . . . . . . . . . . . . | 60,500 | 17 | 61 | 81 | 91 | 96 |
| \$450 to \$499..... . . . . . . . . . . . . . . . . . . . . . | 57,400 | 16 | 59 | 81 | 91 | 95 |
| \$500 or more................................ | 102,500 | 28 | 63 | 82 | 90 | 94 |
| Median rent................................. | \$432 | (X) | (X). | (X) | ( X ) | (X) |
| No bedroom. . | 8,600 | 2 | 68 | 84 | 91 | 94 |
| Less than \$300............................... | 2,500 | 1 | 73 | 90 | 97 | 99 |
| \$300 to \$349. . . . . . . . . . . . . . . . . . . . . . . . . . . | 1,700 | (Z) | 67 | 83 | 90 | 95 |
| \$350 to \$399..... . . . . . . . . . . . . . . . . . . . . . . | 1,100 | (Z) | 69 | 85 | 94 | 99 |
| \$400 to \$449..... . . . . . . . . . . . . . . . . . . . . . . | 600 | (Z) | 52 | 64 | 78 | 86 |
| \$450 to \$499........ . . . . . . . . . . . . . . . . . . . . | 600 | (Z) | 67 | 81 | 90 | 91 |
| \$500 or more. . . . . . . . . . . . . . . . . . . . . . . . . . | 2,000 | 1 | 66 | 84 | 88 | 90 |
| Median rent. . . . . . . . . . . . . . . . . . . . . . . . . . | \$351 | (X) | (X) | (X) | (X) | (X) |
| 1 bedroon. | 158,000 | 43 | 66 | 84 | 92 | 95 |
|  | 21,100 | 6 | 72 | 88 | 93 | 94 |
| \$300 to \$349. . . . . . . . . . . . . . . . . . . . . . . . . . . | 26,300 | 7 | 64 | 83 | 91 | 95 |
| \$350 to \$399.... . . . . . . . . . . . . . . . . . . . . . . . . | 41,500 | 11 | 68 | 86 | 94 | 96 |
| \$400 to \$449... . . . . . . . . . . . . . . . . . . . . . . . | 28,900 | 8 | 61 | 83 | 92 | 97 |
| \$450 to \$499............. ........ . . . . . . . . . . . | 15,000 | 4 | 60 | 81 | 91 | 95 |
| \$500 or more. . . . . . . . . . . . . . . . . . . . . . . . . | 25,100 | 7 | 66 | 84 | 90 | 93 |
| Median rent. | \$388 | (X) | (X) | (X) | (X) | (X) |
| 2 bedrooms... | 187,100 | 51 | 64 | 83 | 91 | 95 |
|  | 6,900 | 2 | 59 | 83 | 92 | 97 |
| \$300 to \$349. . . . . . . . . . . . . . . . . . . . . . . . . . . | 13,400 | 4 | 77 | 93 | 97 | 98 |
| \$350 to \$399. | 28,800 | 8 | 74 | 89 | 95 | 98 |
| \$400 to \$449. | 29,800 | 8 | 61 | 80 | 90 | 94 |
| \$450 to \$499. | 39,600 | 11 | 58 | 80 | 90 | 95 |
| \$500 to \$549. | 24,900 | 7 | 59 | 79 | 90 | 95. |
| \$550 or more. | 43,700 | 12 | 63 | 81 | 90 | 94 |
| Median rent. | \$469 | (X) | (X) | (X) | (X) | (X) |
| 3 bedrooms or more. . . . . . . . . . . . . . . . | 10,800 | 3 | 65 | 87 | 95 | 97 |
| Less than \$ 300 . | (Z) | (Z) | (Z) | (2) | (z) | ( z ) |
| \$300 to \$349. . . . . . . . . . . . . . . . . . . . . . . . . . | 100 | (Z) | 81 | 99 | 100 | 100 |
| \$350 to \$399. | 600 | (Z) | 79 | 98 | 99 | 100 |
| \$400 to \$449.. . . . . . . . . . . . . . . . . . . . . . . . . . | 1,200 | (2) | 40 | 81 | 99 | 100 |
| \$450 to \$499.................... . . . . . . . . . . . | 2,100 | 1 | 72 | 93 | 100 | 100 |
| \$500 to \$549.... . . . . . . . . . . . . . . . . . . . . . . . . | 1,100 | (Z) | 57 | 81 | 95 | 96 |
| \$550 or more. . . . . . . . . . . . . . . . . . . . . . . . | 5,600 | 2 | 68 | 85 | 92 | 96 |
| Median rent.. | \$550+ | (X) | (X) | (X) | (X) | (X) |

X Not applicable. Z Indicates less than fifty or less than one-half percent.

Table 2. Absorption Rates for Apartments Completed, by Geographic Area: 1985
(Privately financed, nonsubsidized, unfurnished apartments in buildings with five units or more. Data may not add to total due to rounding)

| Geographic areas | Total |  | Percent absorbed within-m |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number | Percent | 3 months | 6 months | 9 months | 12 months |
| United States, total.................. | 364,500 | 100 | 65 | 84 | 92 | 95 |
| Inside MSA's................................ | 345,500 | 95 | 64 | 83 | 91 | 95 |
| In central city.......................... | 157,100 | 43 | 62 | 83 | 91 | 95 |
| Not in central city...................... | 188,400 | 52 | 65 | 83 | 92 | 96 |
| Outside MSA's............................... | 18,900 | 5 | 83 | 94 | 96 | 97 |
| Northeast. | 8,200 | 2 | 68 | 82 | 86 | 88 |
| Midwest. | 53,900 | 15 | 73 | 86 | 93 | 97 |
| South. | 166,400 | 46 | 59 | 81 | 90 | 94 |
| West. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | 135,900 | 37 | 68 | 86 | 94. | 97 |

Table 3. Absorption Rates for Apartments Completed, by Presence of Air-Conditioning and Swimming Pool, for the United States: 1985
(Privately financed, nonsubsidized, unfurnished apartments in building with five units or more. Data regarding air conditioning and swimming pool are collected at the inftial interview, i.e., 3 months following completion. Data may not add to total due to rounding)

| Characteristics | Total |  | Percent absorbed within-- |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number | Percent | 3 months | 6 months | 9 months | 12 months |
| Unfumished total.. | 364,500 | 100 | 65 | 84 | 92 | - 95 |
| Air conditioning: |  |  |  |  |  |  |
| Included in rent. | 152,000 | 42 | 63 | 81 | 90 | 94 |
| Avallable at extra cost. | 177,200 | 49 | 66 | 84 | 92 | 96 |
| Not available. | 31,100 | 9 | 70 | 92 | 97 | 99 |
| Not reported................................ | 4,200 | 1 | 48 | 71 | 83 | 91 |
| Swimming pool: |  |  |  |  |  |  |
| Included in rent........................ | 282,300 | 77 | 62 | 82 | 91 | 95 |
| Available at extra cost................ | 3,200 | 1 | 64 | 81 | 86 | 89 |
| Not available.............................. | 74,000 | 20 | 75 | 90 | 96 | 97 |
| Not reported. . . . . . . . . . . . . . . . . . . . . . . | 4,900 | 1 | 45 | 71 | 84 | 91 |

Table 4. Absorption Rates for Cooperative and Condominium Apartments Completed, by Number of Bedrooms and Geographic Region: 1985
(Privately financed, nonsudsidized, apartments in buildings with five units or more. Data regarding number of bedrooms are collected at the initial interview, i.e., 3 months following completion. Data may not add to total due to rounding。)

| Characteristics | Total |  | Percent absorbed within+- |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number | Percent | 3 months | 6 months | 9 months | 12 months |
| Total...................... | 135,800 | 100 | 65 | 77 | 85 | 89 |
| Number of bedrooms: |  |  |  |  |  |  |
| None.............................. | 2,600 | 2 | 69 | 83 | 87 | 88 |
| 1 bedroom. . . . . . . . . . . . . . . . . . . | 27,200 | 20 | 63 | 76 | 81 | 87 |
| 2 bedrooms......................... | 84,700 | 62 | 65 | 77 | 86 | 90 |
| 3 bedrooms or more............... | 21,400 | 16 | 69 | 80 | 84 | 87 |
| Region: |  |  |  |  |  |  |
| Northeast.......................... | 18,900 | 14 | 67 | 78 | 97 | 98 |
| Midwest............................ | 10,500 | 8 | 64 | 76 | 81 | 84 |
| South............................. | 80,400 | 59 | 67 | 78 | 82 | 87 |
| West............... . . . . . . . . . . . . . | 26,000 | 19 | 58 | 75 | 83 | 88 |

Table 5. Absorption Rates for Condominium Apartments Completed, by Asking Price and Number of Bedrooms, for the United States: 1985
(Privately financed, nonsubsidized apartments in buildings with five units or more. Data regarding number of bedrooms and asking price are collected at the initial interview, i.e., 3 months following completion, Data may not add to total due to rounding.)

| Item | Total |  | Percent absorded within-m |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number | Percent | 3 months | 6 months | 9 months | 12 months |
| Total........................... | 134,100 | 100 | 65 | 77 | 84 | 89 |
| Price classes: |  |  |  |  |  |  |
| Less than \$40,000................ | 5,900 | 4 | 77 | 90 | 95 | 96 |
| \$40,000 to $\$ 49,999 . . . . . . . . . . . . . .$. | 7,900 | 6 | 66 | 84 | 88 | 92 |
| \$50,000 to \$74,999............... | 32,000 | 24 | 67 | 79 | 85 | 89 |
| \$75,000 to \$99,999.............. | 39,300 | 29 | 73 | 82 | 87 | 90 |
| \$100,000 or more................. | 49,000 | 37 | 55. | 69 | 80 | 85 |
| Median asking price.............. | \$88,500 | (X) | 3 (X) | (X) | (x) | (x) |
| Number of bedrooms: |  |  |  |  |  |  |
| Less than 2....................... | 28,900 | 22 | 63 | 76 | 81 | 87 |
| 2................................... | 83,800 | 62 | 65 | 77 | 86 | 89 |
| 3 or more. | 21,400 | 16 | 69 | 80 | 84 | 87 |

X Not applicable.

Table 6. Absorption Rates for Furnished Apartments Completed, by Rent and Number of Bedrooms, for the United States: 1985
(Privately financed, nonsubsidized, furnished apartments in buildings with five units or more. Data regarding asking rent and bedrooms are collected at the initial interview, i.e., 3 months following completione Data may not add to total due to rounding. Medians are computed using unrounded data.)

| Item | Total |  | Percent absorbed within-* |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number | Percent | 3 months | 6 months | 9 months | 12 months |
| Total.......................... | 7,400 | 100 | 75 | 92 | 97 | 99 |
| Rent class: |  |  |  |  |  |  |
| Less than \$300.................... | 1,800 | 24 | 48 | 87 | 96 | 99 |
| \$300 to \$349....................... | 1,100 | 15 | 78 | 89 | 95 | 97 |
| \$350 to \$399....................... | 1,400 | 19 | 90 | 94 | 98 | 100 |
| \$400 to \$449........................ | 900 | 12 | 68 | 90 | 98 | 99 |
| \$450 to \$499....................... . | 800 | 11 | 85 | 95 | 98 | 99 |
| \$500 or more....................... | 1,400 | 19 | 91 | 96 | 97 | 98 |
| Median rent....................... | \$379 | (x) | (x) | (x) | (x) | (x) |
| Number of bedrooms: |  |  |  |  |  |  |
| None............................... | 2,400 | 32 | 62 | 88 | 97 | 98 |
| 1 bedroom......................... | 3,000 | 41 | 78 | 91 | 96 | 99 |
| 2 bedrooms........................ | 1,100 | 15 | 74 | 95 | 96 | 98 |
| 3 bedrooms or more............... | 1,000 | 14 | 100 | 100 | 100 | 100 |

X Not applicable.

Table 7. Housing Units Completed in Buildings With Five Units or More: 1970 to 1985
(Data may not add to total due to rounding.)

| Year | Total | Unfurnished apartments | Furnished apartments | Cooperatives \& condominiums | $\begin{array}{r} \text { Federally } \\ \text { subsidized } \end{array}$ | other ${ }^{1}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number of units |  |  |  |  |  |
| 1970. | 526,000 | 328,400 | 48,200 | 72,500 | 55,900 | 21,000 |
| 1971. | 583,400 | 334,400 | 32,200 | 49,100 | 104,800 | 63,000 |
| 1972. | 718,200 | 497,900 | 37,700 | 57,300 | 93,800 | 31,400 |
| 1973. | 774,800 | 531,700 | 36,200 | 98,100 | 82,000 | 26,800 |
| 1974. | 685,400 | 405,500 | 20,700 | 159,000 | 75,400 | 25,000 |
| 1975. | 371,400 | 223,100 | 11,100 | 84,600 | 38,900 | 13,800 |
| 1976. | 258,200 | 157,000 | 12,800 | 46,300 | 32,000 | 10,000 |
| 1977. | 289,400 | 195,600 | 16,200 | 43,000 | 26,000 | 8,700 |
| 1978. | 362,700 | 228,700 | 11, 200 | 54,500 | 54,100 | 14,300 |
| 1979. | 439,300 | 241,200 | 12,100 | 91,800 | 87,500 | 6,700 |
| 1980. | 418,900 | 196,100 | 9,700 | 122,800 | 79,900 | 10,500 |
| 1981. | 332,500 | 135,400 | 6,000 | 112,600 | 66,100 | 12,500 |
| 1982. | 288,200 | 117,000 | 5,400 | 107,900 | 48,000 | 10,000 |
| 1983. | 370,700 | 191,500 | 4,700 | 111,800 | 47,700 | 15,100 |
| 1984. | 506,000 | 313,200 | 9,800 | 143,600 | 28,500 | 10,700 |
| 1985. | 533,300 | 364,500 | 7,400 | 135,800 | 12,000 | 13,700 |

[^2]Table A. Standard Error of Estimated Totals: January to December 1985 Completions
(1 standard error)

| Estimated total | Standard error | Estimated total | Standard error |
| :---: | :---: | :---: | :---: |
| 5,000... | 1,430 | 75,000... | 5,720 |
| 10,000.. | 2,030 | 100,000. . . . . . . . . . . . . . . . . . . . . . . . . . | 6,650 |
| 15,000...... | 2,500 | 159,000. . . . . . . . . . . . . . . . . . . . . . . . . . | 8,310 |
| 20,000.. | 2,880 | 250,000. . . . . . . . . . . . . . . . . . . . . . . . . | 11,110 |
| 25,000... | 3,240 | 350,000................................ | 13,590 |
| 35,000.. | 3,830 | 450,000. | 15,890 |
| 50,000.. | 4,620 | 600,000. | 19,180 |

Table B. Standard Error of Estimated Percentages: January to December 1985 Completions
(1 standard error)

| Base of percentage | Estimated percentage |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 98 or 2 | 95 or 5 | 90 or 10 | 80 or 20 | 75 or 25 | 50 |
| 5,000.. | 4.0 | 6.3 | 8.5 | 11.4 | 12.4 | 14.3 |
| 10,000. | 2.9 | 4.3 | 6.1 | 8.1 | 8.7 | 10.0 |
| 15,000.. | 2.3 | 3.5 | 5.0 | 6.6 | 7.1 | 8.2 |
| 20,000. | 1.9 | 3.1 | 4.3 | 5.8 | 6.1 | 7.1 |
| 25,000. | 1.8 | 2.7 | 3.9 | 5.2 | 5.5 | 6.4 |
| 35,000. | 1.5 | 2.4 | 3.2 | 4.3 | 4.7 | 5.5 |
| 50,000. | 1.3 | 1.9 | 2.7 | 3.5 | 3.9 | 4.5 |
| 75,000.. | 1.0 | 1.6 | 2.3 | 2.9 | 3.2 | 3.7 |
| 100,000. | 1.0 | 1.5 | 1.9 | 2.6 | 2.7 | 3.2 |
| 150,000.. | 0.8 | 1.1 | 1.6 | 2.1 | 2.3 | 2.6 |
| 250,000.. | 0.6 | 0.8 | 1.3 | 1.6 | 1.8 | 2.1 |
| 350,000.. | 0.5 | 0.8 | 1.0 | 1.3 | 1.5 | 1.8 |
| 450,000. | 0.5 | 0.6 | 1.0 | 1.1 | 1.3 | 1.5 |
| 600,000. | 0.3 | 0.6 | 0.8 | 1.0 | 1.1 | 1.3 |



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[^0]:    'See reliability of estimates on page 2.

[^1]:    ${ }^{2}$ See "Housing Starts," Construction Reports, Series C20, for details of this survey.
    ${ }^{3}$ See "Housing Completions," Construction Reports, Series C22.

[^2]:    ${ }^{1}$ Other includes time-sharing units, continuing care retirement units, and turnkey housing built and sold to local public housing authorities subsequent to completion.

