Housing Starts

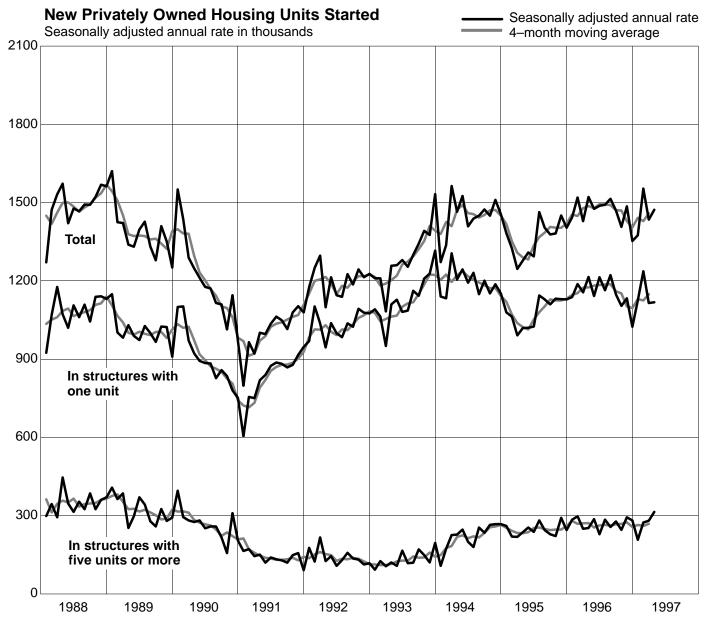
APRIL 1997

U.S. Department of Commerce Economics and Statistics Administration BUREAU OF THE CENSUS

C20/97-4 Issued May 1997

Seasonally adjusted statistics for building permits, January 1995 through March 1997, and unadjusted statistics for January through December 1996 have been revised (see Table 2).

The appendix to this report (beginning on page A-1) includes information on survey definitions, sample design, data compilation, seasonal adjustment, and the reliability of the data.



Note: Total includes units started in structures with two to four units. Source: U.S. Bureau of the Census, Housing Starts.

Questions regarding these data may be directed to Erica Filipek, Residential Construction Branch, Telephone 301-457-4703.

For sale by the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402.

HOUSING STARTS AND BUILDING PERMITS

Privately owned housing starts in April were at a seasonally adjusted annual rate of 1,473,000. This is 3 (\pm 6) percent above the revised March rate of 1,435,000 and 3 (\pm 5) percent below the April 1996 figure of 1,522,000.

Single-family housing starts in April 1997 were at a rate of 1,118,000; this is virtually unchanged (± 6 percent) from the March figure of 1,115. The April rate for units in buildings with five units or more was 314,000. The April rate for units in buildings with two to four units was 41,000.

During the first 4 months of this year, 433,700 housing units started compared with 449,200 units for the same period in 1996. This is a decrease of 3 (\pm 2) percent.

New privately owned housing construction was authorized in April in the 19,000 permit-issuing places at a seasonally adjusted annual rate of 1,446,000 units; this is 1 (\pm 1) percent below the revised March rate of 1,457,000 and 3 (\pm 2) percent below the revised April 1996 rate of 1,486,000.

Single-family authorizations in April 1997 were at a rate of 1,064,000; this is 3 (\pm 1) percent above the March figure of 1,034,000. Authorizations of units in buildings with five units or more were at a rate of 312,000; this is 11 percent below the March rate of 352,000. The April rate of permit-authorized units in buildings with two to four units was 70,000.

During the first 4 months of this year, 440,700 housing units were authorized by building permits compared with 444,800 units for the same period in 1996. This is a decrease of 1 (\pm 1) percent.

In interpreting changes in housing starts and building permits, note that month-to-month changes in seasonally adjusted statistics often show movements which may be irregular. It may take 3 months to establish an underlying trend for total starts and total building permit authorizations.

The statistics in this report are estimated from sample surveys and are subject to sampling variability as well as nonsampling error including bias and variance from response, nonreporting, and undercoverage. Estimated average relative standard errors of preliminary data are shown in the tables. Whenever a statement such as "2 (± 3) percent above" appears in the text, this indicates the range (-1 to +5 percent) in which the actual percent change is likely to have occurred. All ranges given for percent changes are 90-percent confidence intervals. If a range contains zero, it is uncertain whether there was an increase or decrease; that is, the change is not statistically significant. For any comparison cited without a confidence interval, the change is statistically significant. The appendix to this report includes explanations of confidence intervals and sampling variability. On average, the preliminary seasonally adjusted estimates of total housing starts and building permits are revised about ±1 percent.

Housing starts and building permits data do not include mobile home units. Mobile home statistics are shown in table 5.

HISTORICAL DATA

Historical data on housing starts and residential permit authorizations are available from Residential Construction Branch, Manufacturing and Construction Division, Bureau of the Census, Washington, DC 20233. Telephone 301-457-4703.

A list of tables and special supplements is shown below:

| Title | | | C20 issues | ; | |
|--|--------------|---------------|--------------|--------------|--------------|
| New privately owned housing units started, by purpose of construction (quarterly and annual data) | 97-4 | 97-1 | 96-10 | 96-7 | 96-4 |
| Total time from start of construction to completion of private residential buildings (annual data) | 97-3 | 96-3 | 95-3 | 94-3 | 93-3 |
| Total time from authorization of construction to start for private residential buildings (annual data) | 97-3 | 96-3 | 95-3 | 94-3 | 93-3 |
| New privately owned housing units, by intended use and design at time of start (annual data) New mobile homes (quarterly and annual data) | 97-2 97-4 | 96-2 96-12 | 95-2 96-9 | 94-2 96-7 | 93-2 96-6 |

Table 1. New Privately Owned Housing Units Started

[Thousands of units. Detail may not add to total because of rounding]

| | | | | In structur | es with- | | | | | | | |
|--|---|--|--|--|--|--|--|---|--|--|--|---|
| | Period | Total | 1 unit | 2 units | 3 and 4 units | 5 units or more | Inside MSA's ¹ | Outside MSA's ¹ | North- east | Midwest | South | West |
| | ANNUAL DATA | | | | | | | | | | | |
| 1988 1989 1990 1991 1992 1993 1994 1995 | | 1,620.5 1,488.1 1,376.1 1,192.7 1,013.9 1,199.7 1,287.6 1,457.0 1,354.1 1,476.8 | 1,146.4 1,081.3 1,003.3 894.8 840.4 1,029.9 1,125.7 1,198.4 1,076.2 1,160.9 | 27.8 23.4 19.9 16.1 15.5 12.4 11.1 14.8 14.3 16.4 | 37.5 35.4 35.3 21.4 20.1 18.3 18.3 20.2 19.4 28.8 | 408.7 348.0 317.6 260.4 137.9 139.0 132.6 223.5 244.1 270.8 | 1,372.2 1,243.0 1,128.1 946.9 789.2 931.5 1,031.9 1,183.1 1,106.4 1,211.4 | 248.2 245.1 248.0 245.7 268.2 255.8 273.9 247.6 265.5 | 269.0 235.3 178.5 131.3 112.9 126.7 126.5 138.2 117.7 132.1 | 297.9 274.0 265.8 253.2 233.0 287.8 297.7 328.9 290.1 321.5 | 633.9 574.9 536.2 479.3 414.1 496.9 561.8 639.1 615.0 661.9 | 419.8 403.9 395.7 254.0 288.3 301.7 350.8 331.3 361.4 |
| | MONTHLY DATA | | | | | | | | | | | |
| | t Seasonally Adjusted | | | | | | | | | | | |
| 1996: | January February March April May June | 90.7 95.9 116.0 146.6 143.9 138.0 | 68.9 74.2 96.9 117.9 111.6 115.0 | 0.3 0.9 1.0 2.0 1.6 1.6 | 0.8 1.1 1.0 3.4 3.0 3.3 | 20.6 19.7 17.1 23.3 27.7 18.2 | 77.5 83.0 92.9 121.1 117.3 109.7 | 13.1 13.0 23.1 25.4 26.5 28.2 | 5.0 6.1 10.0 13.1 12.6 13.4 | 14.7 13.8 24.0 31.8 33.6 30.9 | 43.8 46.9 54.5 64.3 65.2 58.6 | 27.2 29.0 27.4 37.3 32.5 35.1 |
| | July August September October November December | 137.5 144.2 128.7 130.8 111.5 93.1 | 109.1 115.6 99.3 101.0 82.6 68.8 | 1.2 1.2 1.9 2.1 1.6 1.1 | 3.1 2.0 1.9 2.9 4.3 1.9 | 24.2 25.4 25.6 24.8 23.0 21.3 | 110.7 117.5 104.0 106.5 93.1 78.0 | 26.8 26.7 24.7 24.3 18.4 15.1 | 12.3 12.9 13.0 13.9 10.1 9.7 | 34.9 35.3 28.6 29.8 26.6 17.4 | 59.2 59.2 57.6 54.0 51.0 47.4 | 31.1 36.7 29.5 33.0 23.9 18.6 |
| 1997: | January | 82.2 94.7 115.5 141.3 | 66.6 75.1 92.8 107.9 | 0.6 1.4 0.9 1.5 | 1.5 1.1 2.1 2.5 | 13.5 17.1 19.6 29.4 | 72.1 81.8 97.6 117.2 | 10.1 12.9 18.0 24.1 | 8.5 6.2 10.9 12.8 | 10.5 16.3 21.5 28.4 | 39.8 47.4 52.5 68.1 | 23.3 24.8 30.6 32.0 |
| Year to o | date: 1996 1997 | 449.2 433.7 | 357.9 342.4 | 4.2 4.5 | 6.4 7.1 | 80.7 79.7 | 374.5 368.6 | 74.6 65.1 | 34.2 38.4 | 84.3 76.8 | 209.6 207.7 | 121.0 110.7 |
| Season | ally Adjusted Annual Rate | | | | | | | | | | | |
| 1996: | January February March April May June | 1,444 1,520 1,429 1,522 1,476 1,488 | 1,138 1,188 1,156 1,215 1,142 1,214 | 2: 33: 24: 55: 44: 44: | 5 4 5 8 | 284 297 249 252 286 228 | (NA) (NA) (NA) (NA) (NA) (NA) | (NA) (NA) (NA) (NA) (NA) (NA) | 100 130 139 138 128 126 | 329 317 322 325 322 300 | 621 655 631 665 680 686 | 394 418 337 394 346 376 |
| | July August September October November December. | 1,492 1,515 1,470 1,407 1,486 1,353 | 1,164 1,222 1,148 1,104 1,133 1,024 | 4. 3 4. 5 6 4. | 7 5 8 0 | 284 256 277 245 293 281 | (NA) (NA) (NA) (NA) (NA) (NA) | (NA) (NA) (NA) (NA) (NA) (NA) | 129 131 140 138 128 139 | 355 337 309 287 330 300 | 670 671 682 617 672 641 | 338 376 339 365 356 273 |
| 1997: | January February ^r | 1,375 1,554 1,435 1,473 | 1,125 1,237 1,115 1,118 | 4: 4: 4: 4: 4: | 4 0 | 207 273 280 314 | (NA) (NA) (NA) (NA) | (NA) (NA) (NA) (NA) | 182 135 148 137 | 260 386 290 292 | 589 671 628 699 | 344 362 369 345 |
| A ST | VERAGE RELATIVE TANDARD ERRORS ² | | | | | | | | | | | |
| Monthly | | 1 3 1 | 1 2 1 | 7 10 11 | 8 19 6 | 2 11 4 | 1 3 1 | 3 7 5 | 1 6 3 | 2 7 3 | 2 5 2 | 1 5 1 |

NA Not available. PPreliminary. Revised.

¹Metropolitan statistical areas. ²Average Relative Standard Errors (Avg. RSE): Annual—Avg. RSE for the last 2 years; Year to date—Avg. RSE for the current period and the same period last year; Monthly—Avg. RSE for the latest 6-month period (January through June or July through December).

Table 2. New Privately Owned Housing Units Authorized in Permit-Issuing Places [Thousands of units. Detail may not add to total because of rounding]

| | | | | U | nited State | es | | | I | Northeast | | | Midwest | | | South | | | West | |
|--------------------|--|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|
| | Period | | | In structu | res with— | | | | | In stru with | | | In stru witi | | | In stru with | | | In stru wit | ictures h— |
| | | Total | 1 unit | 2 units | 3 and 4 units | 5 units or more | Inside MSA's ¹ | Outside MSA's ¹ | Total | 1 unit | 2 units or more | Total | 1 unit | 2 units or more | Total | 1 unit | 2 units or more | Total | 1 unit | 2 units or more |
| A | ANNUAL DATA | | | | | | | | | | | | | | | | | | | |
| - | 000-Place Series | | | | | | | | | | | | | | | | | | | |
| 1992 1993 | | 1,094.9 1,199.1 | 910.7 986.5 | 23.3 26.7 | 22.5 25.6 | 138.4 160.2 | 888.5 1,009.0 | 206.5 190.1 | 124.8 133.5 | 108.5 113.7 | 16.3 19.8 | 259.0 276.6 | 204.4 218.4 | 54.6 58.3 | 442.5 500.7 | 382.2 419.5 | 60.2 81.2 | 268.6 288.2 | 215.6 235.0 | 53.0 53.2 |
| , | 000-Place Series | | | | | | | | | | | | | | | | | | | |
| 1995 | | 1,371.6 1,332.5 1,425.6 | 1,068.5 997.3 1,069.5 | 31.4 32.2 33.6 | 30.8 31.5 32.2 | 241.0 271.5 290.3 | 1,144.1 1,116.8 1,200.0 | 227.5 215.8 225.6 | 138.5 124.2 136.9 | 119.1 104.5 108.8 | 19.4 19.7 28.1 | 305.2 296.6 317.8 | 233.6 220.5 236.6 | 71.6 76.1 81.3 | 585.5 583.2 623.4 | 453.0 430.3 468.5 | 132.5 152.9 155.0 | 342.4 328.5 347.4 | 262.8 241.9 255.6 | 79.7 86.5 91.8 |
| | IONTHLY DATA | | | | | | | | | | | | | | | | | | | |
| N | Not Seasonally Adjusted | | | | | | | | | | | | | | | | | | | |
| 1994: | January February March. April May June. | 80.7 81.7 126.4 127.6 131.4 138.8 | 63.4 69.2 104.0 102.0 107.7 109.2 | 1.8 1.5 2.9 2.9 3.0 3.0 | 2.0 2.1 2.7 2.7 3.0 3.0 | 13.4 8.9 16.8 20.0 17.8 23.5 | 68.6 70.0 106.8 105.8 107.9 114.8 | 12.1 11.7 19.5 21.8 23.4 24.0 | 5.0 5.3 10.3 12.6 14.3 15.6 | 4.5 4.8 8.8 11.0 12.8 13.3 | 0.5 0.6 1.5 1.5 1.5 2.3 | 12.2 13.9 27.1 29.6 32.8 31.6 | 9.6 11.6 22.6 24.2 25.7 25.4 | 2.6 2.2 4.6 5.3 7.1 6.2 | 40.6 40.0 56.4 54.4 52.9 54.6 | 31.7 34.2 46.0 42.2 43.2 43.4 | 8.9 5.9 10.4 12.2 9.7 11.2 | 22.8 22.5 32.5 31.1 31.4 37.0 | 17.6 18.6 26.7 24.5 25.9 27.1 | 5.2 3.9 5.9 6.6 5.4 9.9 |
| | July August September October November December | 114.8 131.5 127.2 117.0 100.5 94.2 | 90.9 100.9 91.5 85.9 74.8 68.9 | 2.4 2.9 2.7 3.1 3.1 2.1 | 2.4 2.8 2.6 3.1 2.3 2.1 | 19.1 24.9 30.3 24.9 20.3 21.0 | 94.4 108.9 106.5 96.4 85.0 78.9 | 20.4 22.7 20.7 20.5 15.5 15.3 | 14.7 14.2 12.3 11.9 11.5 10.8 | 12.8 11.9 10.5 10.2 9.8 8.7 | 2.0 2.3 1.7 1.7 1.7 2.1 | 27.3 30.7 28.3 29.9 23.0 18.8 | 21.2 22.8 20.8 20.1 16.8 12.8 | 6.0 8.0 7.5 9.8 6.2 6.0 | 46.2 54.1 54.3 46.0 43.4 42.6 | 35.9 42.1 38.2 34.3 31.0 30.9 | 10.3 12.0 16.2 11.8 12.4 11.6 | 26.6 32.5 32.2 29.2 22.6 22.0 | 21.0 24.2 22.0 21.3 17.2 16.5 | 5.6 8.3 10.2 7.9 5.4 5.5 |
| 1995: | January February March. April May June. | 78.0 80.4 111.5 109.7 122.8 129.3 | 58.2 59.8 85.1 83.1 95.9 97.4 | 1.8 2.0 3.0 2.8 3.3 3.2 | 2.0 1.3 2.9 2.5 2.6 3.4 | 16.1 17.3 20.5 21.3 21.1 25.3 | 67.3 69.4 93.6 90.5 101.4 106.6 | 10.7 11.1 17.9 19.3 21.4 22.8 | 7.4 5.6 10.5 11.4 12.4 12.4 | 6.2 4.7 8.8 9.5 11.0 10.6 | 1.2 0.9 1.7 1.9 1.4 1.9 | 12.3 13.7 23.8 25.2 29.3 29.7 | 8.6 10.4 18.5 19.4 22.7 23.1 | 3.7 3.3 5.3 5.8 6.6 6.6 | 40.1 38.7 52.7 46.6 51.0 53.3 | 29.1 28.9 39.1 34.9 39.1 39.7 | 11.0 9.8 13.6 11.7 11.9 13.7 | 18.3 22.5 24.5 26.5 30.1 33.9 | 14.3 15.8 18.8 19.3 23.1 24.1 | 4.0 6.6 5.8 7.2 7.0 9.8 |
| | July August September October November December | 115.6 133.5 124.1 122.2 107.8 97.4 | 88.3 101.4 90.1 90.8 78.4 68.8 | 2.3 3.1 3.0 3.1 2.9 1.9 | 2.4 3.0 3.0 3.3 3.1 2.0 | 22.5 26.1 28.1 25.0 23.5 24.7 | 95.2 111.4 104.1 101.4 90.9 85.0 | 20.4 22.1 20.0 20.8 17.0 12.4 | 10.7 12.3 11.2 11.9 10.5 8.0 | 9.4 10.6 9.4 9.8 8.0 6.6 | 1.2 1.7 1.8 2.1 2.5 1.4 | 27.3 31.9 28.9 31.9 24.9 17.8 | 20.9 23.5 20.5 22.1 18.2 12.5 | 6.4 8.3 8.4 9.8 6.7 5.2 | 48.4 55.9 55.0 51.5 46.3 43.8 | 36.9 42.1 39.4 37.7 33.3 30.1 | 11.6 13.8 15.5 13.7 13.0 13.7 | 29.2 33.5 29.1 27.0 26.2 27.8 | 21.1 25.2 20.8 21.2 18.9 19.5 | 8.2 8.3 5.8 7.3 8.4 |
| 1996: ^r | January February March. April May June. | 88.3 96.0 120.4 140.1 140.5 131.4 | 66.0 74.4 95.7 109.9 109.2 100.7 | 2.0 2.2 2.6 3.7 3.1 2.9 | 1.8 1.9 2.3 3.2 3.0 3.1 | 18.5 17.6 19.8 23.2 25.1 24.7 | 77.1 83.7 101.6 116.2 116.5 109.1 | 11.1 12.3 18.8 23.8 24.0 22.3 | 5.5 6.1 10.8 14.0 14.2 13.1 | 4.5 5.4 8.9 10.9 11.8 10.7 | 1.0 0.7 1.9 3.1 2.4 2.4 | 14.3 17.1 26.6 33.9 32.8 29.4 | 10.4 13.7 20.2 26.7 26.1 23.4 | 3.9 3.4 6.3 7.2 6.6 5.9 | 44.0 46.4 52.0 60.3 61.8 55.6 | 33.7 37.2 43.3 47.1 46.0 42.2 | 10.3 9.2 8.7 13.1 15.8 13.4 | 24.5 26.4 31.1 31.9 31.8 33.4 | 17.4 18.1 23.3 25.1 25.4 24.4 | 7.1 8.4 7.8 6.8 6.4 9.0 |
| | July August September October November December | 135.1 129.1 121.1 123.7 100.7 99.2 | 101.8 97.6 85.9 90.8 71.5 66.0 | 2.9 3.0 3.3 2.7 2.2 | 2.8 2.5 3.1 3.7 2.6 2.0 | 27.5 26.0 29.1 25.9 23.9 29.1 | 111.2 108.0 101.0 103.6 86.1 86.0 | 23.9 21.1 20.1 20.1 14.7 13.2 | 13.4 14.0 12.2 13.4 10.8 9.4 | 11.1 10.6 9.6 10.0 8.3 7.0 | 2.4 3.4 2.5 3.4 2.4 2.5 | 33.1 30.3 27.8 30.8 23.1 18.7 | 24.6 22.6 20.1 21.4 15.2 12.1 | 8.5 7.8 7.7 9.4 7.9 6.6 | 54.7 55.4 51.4 49.6 44.9 47.4 | 41.6 41.3 35.7 38.1 31.7 30.7 | 13.1 14.2 15.7 11.5 13.2 16.8 | 33.8 29.4 29.8 29.9 21.9 23.6 | 24.5 23.2 20.5 21.3 16.3 16.2 | 9.3 6.2 9.3 8.6 5.7 7.3 |
| 1997: | January | 88.9 92.8 120.1 137.3 | 66.0 70.2 88.5 104.2 | 2.0 2.3 3.0 3.4 | 1.7 2.0 2.8 3.3 | 19.2 18.3 25.8 26.3 | 78.0 80.2 101.6 112.3 | 10.9 12.6 18.5 25.1 | 8.2 8.1 11.3 12.6 | 6.0 5.7 8.6 10.2 | 2.2 2.5 2.7 2.4 | 13.4 15.9 24.1 31.2 | 9.3 11.3 17.8 23.7 | 4.1 4.6 6.3 7.5 | 44.1 44.5 55.9 62.0 | 34.1 34.4 40.0 45.3 | 10.1 10.0 15.9 16.6 | 23.1 24.3 28.8 31.5 | 16.5 18.8 22.1 24.9 | 6.6 5.6 6.7 6.6 |
| Year to | | 444.8 440.7 | 345.9 329.2 | 10.5 10.8 | 9.3 9.8 | 79.1 91.0 | 378.6 373.7 | 66.1 67.1 | 36.4 42.2 | 29.8 31.1 | 6.6 11.1 | 91.9 84.8 | 71.0 62.4 | 20.8 22.4 | 202.7 206.4 | 161.4 153.5 | 41.3 52.9 | 113.8 107.3 | 83.8 82.3 | 30.0 25.1 |

See footnotes at end of table.

Table 2. New Privately Owned Housing Units Authorized in Permit-Issuing Places—Con.

[Thousands of units. Detail may not add to total because of rounding]

| | | | | U | nited State | es | | | | Northeast | | | Midwest | | | South | | | West | |
|--------------------|---|--|--|----------------------------|-----------------------|--|--|--|--|--|----------------------------------|--|--|----------------------------------|--|--|--|--|--|------------------------------------|
| | Period | | | In structur | res with— | | | | | In stru witl | | | In stru with | | | In stru wit | ictures h— | | In stru wit | ictures h— |
| | | Total | 1 unit | 2 units | 3 and 4 units | 5 units or more | Inside MSA's ¹ | Outside MSA's ¹ | Total | 1 unit | 2 units or more | Total | 1 unit | 2 units or more | Total | 1 unit | 2 units or more | Total | 1 unit | 2 units or more |
| MON | THLY DATA—Con. | | | | | | | | | | | | | | | | | | | |
| Sea | sonally Adjusted Annual Rate | | | | | | | | | | | | | | | | | | | |
| 1994: | January February March April May June | 1,390 1,269 1,342 1,392 1,396 1,357 | 1,112 1,065 1,078 1,084 1,110 1,067 | 6 5 6 6 5 | 6 1 2 6 | 210 148 203 246 220 232 | (NA) (NA) (NA) (NA) (NA) (NA) | (NA) (NA) (NA) (NA) (NA) (NA) | 102 112 121 135 143 146 | 99 98 103 117 124 126 | 3 14 18 18 19 20 | 296 278 305 306 315 301 | 246 227 243 237 240 232 | 52 51 62 69 75 69 | 599 545 576 600 592 565 | 472 466 460 462 471 450 | 127 79 116 138 121 115 | 391 334 340 351 346 345 | 295 274 272 268 275 259 | 98 60 68 83 71 86 |
| | July August September October . November December | 1,335 1,377 1,412 1,397 1,340 1,396 | 1,041 1,054 1,056 1,042 1,014 1,086 | 6 6 6 6 6 | 0 0 8 6 2 | 234 263 296 287 260 248 | (NA) (NA) (NA) (NA) (NA) (NA) | (NA) (NA) (NA) (NA) (NA) (NA) | 161 143 135 131 137 167 | 137 121 118 113 119 129 | 24 22 17 18 18 38 | 300 303 295 318 298 323 | 228 225 228 226 229 246 | 72 78 67 92 69 77 | 567 589 608 591 590 603 | 429 452 450 438 426 466 | 138 137 158 153 164 137 | 307 342 374 357 315 303 | 247 256 260 265 240 245 | 60 86 114 92 75 58 |
| 1995: ^r | January February March April May June | 1,282 1,254 1,226 1,259 1,271 1,305 | 967 916 914 925 958 982 | 6 5 6 6 6 6 | 4 0 1 | 249 286 248 274 252 259 | (NA) (NA) (NA) (NA) (NA) (NA) | (NA) (NA) (NA) (NA) (NA) (NA) | 139 112 128 129 121 119 | 121 96 106 106 103 101 | 18 16 22 23 18 18 | 285 274 274 278 278 295 | 206 201 206 202 209 218 | 79 73 68 76 69 77 | 567 536 558 539 546 565 | 412 391 404 396 410 424 | 155 145 154 143 136 141 | 291 332 266 313 326 326 | 228 228 198 221 236 239 | 63 104 68 92 90 87 |
| | July August September October November December | 1,354 1,386 1,421 1,400 1,430 1,442 | 1,019 1,045 1,079 1,052 1,060 1,091 | 6 6 6 7 6 | 3 8 5 0 | 274 278 274 283 300 289 | (NA) (NA) (NA) (NA) (NA) (NA) | (NA) (NA) (NA) (NA) (NA) (NA) | 117 121 128 128 126 129 | 101 107 108 106 101 105 | 16 14 20 22 25 24 | 303 310 315 322 314 300 | 225 233 234 235 241 232 | 78 77 81 87 73 68 | 598 600 638 634 622 618 | 443 444 487 458 454 460 | 155 156 151 176 168 158 | 336 355 340 316 368 395 | 250 261 250 253 264 294 | 86 94 90 63 104 101 |
| 1996: ^r | January February March. April May June. | 1,385 1,425 1,438 1,486 1,457 1,432 | 1,047 1,083 1,119 1,128 1,101 1,094 | 6 6 7 6 6 | 0 0 4 4 | 274 282 259 284 292 274 | (NA) (NA) (NA) (NA) (NA) (NA) | (NA) (NA) (NA) (NA) (NA) (NA) | 98 118 143 146 137 136 | 84 106 116 112 110 111 | 14 12 27 34 27 25 | 320 325 333 346 313 314 | 242 251 246 254 244 240 | 78 74 87 92 69 74 | 596 612 597 644 662 636 | 456 481 489 494 486 484 | 140 131 108 150 176 152 | 371 370 365 350 345 346 | 265 245 268 268 261 259 | 106 125 97 82 84 87 |
| | July August September October November December | 1,454 1,405 1,391 1,349 1,391 1,405 | 1,077 1,061 1,029 1,003 1,016 999 | 6 6 7 6 6 | 2 0 8 | 310 282 292 278 310 341 | (NA) (NA) (NA) (NA) (NA) (NA) | (NA) (NA) (NA) (NA) (NA) (NA) | 136 145 140 138 135 145 | 110 112 111 105 108 106 | 26 33 29 33 27 39 | 337 310 305 294 304 303 | 244 235 226 219 212 211 | 93 75 79 75 92 92 | 624 623 598 584 628 636 | 457 461 443 438 455 447 | 167 162 155 146 173 189 | 357 327 348 333 324 321 | 266 253 249 241 241 235 | 91 74 99 92 83 86 |
| 1997: | January ^r February ^r March ^r April ^p | 1,395 1,438 1,457 1,446 | 1,052 1,069 1,034 1,064 | 6 6 7 7 | 8 1 | 281 301 352 312 | (NA) (NA) (NA) (NA) | (NA) (NA) (NA) (NA) | 146 164 153 131 | 113 116 113 107 | 33 48 40 24 | 299 312 307 315 | 219 219 213 226 | 80 93 94 89 | 600 610 652 654 | 466 468 452 468 | 134 142 200 186 | 350 352 345 346 | 254 266 256 263 | 96 86 89 83 |
| | RAGE RELATIVE NDARD ERRORS ³ | | | | | | | | | | | | | | | | | | | |
| Monthly | date (percent) | (X) 1 1 | (X) 1 1 | (X) 4 4 | (X) 5 3 | (X) 2 2 | (X) 1 1 | (X) 4 3 | (X) 1 2 | (X) 1 1 | (X) 4 1 | (X) 2 1 | (X) 1 1 | (X) 6 6 | (X) 1 1 | (X) 1 1 | (X) 2 2 | (X) 1 1 | (X) 1 1 | (X) 2 1 |

NA Not available. PPreliminary. Revised. X Not applicable.

¹Metropolitan statistical areas. ²Reflects revisions not distributed to months. ³Average Relative Standard Errors (Avg. RSE): Annual—RSE for the latest year; Year to date—Avg. RSE for the current period and the same period last year; Monthly—Avg. RSE for the latest 6-month period (January through June or July through December).

Table 3. New Privately Owned Housing Units Authorized, but Not Started, in Permit-Issuing Places at End of Period

[Thousands of units. Detail may not add to total because of rounding]

| | | United | States | | | North | east | | | Mid | vest | | | So | uth | | | W | est | |
|---|--|--|---|--|--|--|--|--|--|--|--|---|---|--|---|--|--|--|--|--|
| Authorized, but not started | | In str | uctures w | ith— | | In str | uctures w | rith— | | In str | uctures w | /ith— | | In sti | uctures w | rith— | | In st | ructures w | /ith— |
| at end of period | Total | 1 unit | 2 to 4 units | 5 units or more | Total | 1 unit | 2 to 4 units | 5 units or more | Total | 1 unit | 2 to 4 units | 5 units or more | Total | 1 unit | 2 to 4 units | 5 units or more | Total | 1 unit | 2 to 4 units | 5 units or more |
| END OF YEAR 14,000-Place Series | | | | | | | | | | | | | | | | | | | | |
| 1977 1978 | 231.8 207.8 | 90.7 86.7 | 12.9 15.1 | 128.2 106.0 | 42.4 39.6 | 12.5 14.3 | 1.0 1.3 | 28.9 24.0 | 32.2 26.5 | 14.1 12.6 | 2.5 3.0 | 15.6 10.9 | 94.9 83.6 | 35.9 32.0 | 3.3 4.4 | 55.7 47.2 | 62.3 58.1 | 28.2 27.8 | 6.1 6.4 | 28.0 23.9 |
| 16,000-Place Series | | | | | | | | | | | | | | | | | | | | |
| 1979 1980 1981 1982 1982 1983 1984 | 184.1 173.6 145.5 167.8 178.0 192.5 | 77.3 70.1 60.1 66.9 68.9 66.2 | 14.4 15.3 10.7 11.6 13.0 10.2 | 92.4 88.2 74.7 89.3 96.1 116.1 | 32.6 26.0 23.3 19.4 21.9 23.2 | 12.3 12.3 11.5 9.4 12.6 10.8 | 1.1 1.2 0.9 1.0 1.1 1.2 | 19.3 12.6 10.8 9.0 8.2 11.2 | 19.6 17.5 10.0 10.4 12.2 14.0 | 7.7 6.8 5.0 4.5 5.2 5.1 | 2.7 2.9 1.7 1.7 1.8 1.5 | 9.2 7.8 3.2 4.2 5.1 7.5 | 85.3 88.5 77.5 100.3 104.2 109.4 | 32.9 32.9 29.8 38.5 33.6 34.5 | 5.1 6.5 4.9 5.9 6.8 4.8 | 47.4 49.1 42.8 55.9 63.8 70.1 | 46.4 41.6 34.7 37.7 39.8 45.8 | 24.4 18.1 13.8 14.5 17.4 15.7 | 5.5 4.8 3.1 2.9 3.3 2.7 | 16.6 18.7 17.9 20.2 19.0 27.4 |
| 17,000-Place Series | | | | | | | | | | | | | | | | | | | | |
| 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 | 223.3 205.2 155.0 156.4 173.9 131.6 126.3 108.7 118.9 115.6 | 80.6 92.8 79.3 76.4 93.1 75.0 71.1 71.9 72.5 66.0 | 13.7 12.3 11.1 9.9 8.4 8.5 4.7 5.1 3.7 3.6 | 129.0 100.2 64.6 70.1 72.5 48.1 50.6 31.7 42.8 46.1 | 36.9 34.4 36.8 32.9 34.1 25.8 24.4 18.6 22.3 17.1 | 19.2 21.2 23.3 20.0 25.1 20.0 17.3 13.5 15.4 12.2 | 2.1 2.4 2.1 1.9 1.6 1.3 0.7 0.7 0.5 0.4 | 15.7 10.8 11.4 11.0 7.4 4.5 6.4 4.5 6.4 4.5 | 20.4 21.1 11.9 15.5 18.0 14.2 16.9 13.4 14.3 13.1 | 5.8 6.4 6.5 5.9 7.5 5.7 6.4 8.8 8.6 8.3 | 2.2 2.3 2.2 2.3 1.8 2.2 1.4 1.7 1.2 1.2 | 12.4 12.4 7.3 8.7 6.3 9.1 2.9 4.5 3.7 | 120.6 91.3 68.6 64.0 73.5 55.1 51.3 49.8 58.5 58.1 | 43.3 43.5 33.8 30.4 34.3 27.3 26.0 33.3 35.2 31.2 | 5.7 3.8 3.5 2.9 2.1 1.3 1.3 1.0 1.1 | 71.6 43.9 31.4 30.7 37.1 25.7 24.0 15.2 22.3 25.8 | 45.4 58.4 37.7 44.0 48.3 36.5 33.8 26.9 23.8 27.3 | 12.3 21.7 15.7 20.1 26.2 22.0 21.4 16.3 13.2 14.2 | 3.8 3.7 3.3 2.7 2.8 2.9 1.4 1.5 1.0 1.0 | 29.3 33.0 18.6 21.1 19.2 11.6 11.1 9.1 9.6 12.1 |
| 19,000-Place Series | | | | | | | | | | | | | | | | | | | | |
| 1995 | 142.2 126.4 | 80.1 67.5 | 4.5 4.8 | 57.6 54.2 | 18.3 16.0 | 13.5 9.0 | 0.5 0.6 | 4.3 6.4 | 18.7 16.6 | 12.8 10.6 | 1.4 1.7 | 4.5 4.2 | 71.6 68.1 | 36.7 32.3 | 1.3 1.3 | 33.6 34.4 | 33.5 25.8 | 17.1 15.5 | 1.2 1.2 | 15.2 9.2 |
| END OF MONTH | | | | | | | | | | | | | | | | | | | | |
| 1996: January February March April May June | 137.9 136.8 147.6 144.8 146.5 143.3 | 79.7 82.3 89.9 87.4 91.0 84.6 | 4.9 4.5 6.3 5.6 4.8 4.0 | 53.4 50.0 51.4 51.8 50.7 54.7 | 18.6 16.6 17.3 17.4 18.6 17.9 | 13.7 11.7 12.5 12.8 12.9 12.6 | 0.6 0.5 0.6 0.7 0.5 0.5 | 4.3 4.5 4.3 3.9 5.2 4.7 | 17.5 20.0 23.0 26.3 26.9 25.5 | 11.6 14.4 16.2 17.4 20.2 18.1 | 1.6 1.5 2.2 1.9 1.6 1.3 | 4.3 4.2 4.6 7.0 5.1 6.0 | 72.3 73.2 75.9 74.1 74.9 73.2 | 39.7 42.5 45.8 43.1 41.8 38.5 | 1.3 1.4 1.8 1.6 1.4 1.2 | 31.2 29.3 28.3 29.3 31.7 33.6 | 29.7 26.9 31.3 27.1 26.1 26.7 | 14.8 13.6 15.4 14.2 16.1 15.3 | 1.3 1.2 1.6 1.4 1.3 1.0 | 13.6 12.1 14.3 11.6 8.8 10.4 |
| July August September October November December | 146.0 130.7 128.4 127.7 121.0 126.4 | 85.0 77.0 72.8 71.9 65.7 67.5 | 4.7 3.7 5.4 6.0 4.7 4.8 | 56.3 50.0 50.2 49.7 50.6 54.2 | 18.7 16.4 15.2 15.6 15.7 16.0 | 12.4 11.6 10.7 10.1 10.2 9.0 | 0.6 0.4 0.6 0.7 0.5 0.6 | 5.8 4.4 4.0 4.8 5.0 6.4 | 25.1 19.8 20.1 21.2 18.6 16.6 | 15.9 14.8 13.0 12.3 11.2 10.6 | 1.6 1.3 2.0 2.3 1.7 1.7 | 7.6 3.7 5.2 6.7 5.8 4.2 | 72.9 71.1 68.9 68.9 66.1 68.1 | 39.4 37.1 35.3 35.9 32.1 32.3 | 1.3 1.1 1.4 1.6 1.3 1.3 | 32.2 33.0 32.2 31.5 32.6 34.4 | 29.3 23.4 24.1 22.0 20.7 25.8 | 17.3 13.5 13.9 13.8 12.3 15.5 | 1.2 1.0 1.4 1.5 1.2 1.2 | 10.7 8.9 8.8 6.7 7.3 9.2 |
| 1997: January February ^r March ^r April ^p | 131.8 128.1 136.2 131.7 | 70.7 69.1 72.3 73.5 | 4.1 3.7 4.9 4.8 | 56.9 55.3 58.9 53.4 | 14.8 16.0 16.2 15.2 | 8.8 8.6 9.2 10.2 | 0.6 0.4 0.5 0.5 | 5.4 6.9 6.5 4.4 | 19.4 16.3 19.4 22.4 | 11.5 10.6 13.2 14.6 | 1.3 1.2 1.7 1.6 | 6.6 4.4 4.5 6.1 | 71.5 70.3 76.2 70.8 | 36.2 34.9 36.4 34.3 | 1.2 1.1 1.3 1.5 | 34.0 34.3 38.5 35.0 | 26.1 25.6 24.4 23.4 | 14.2 14.9 13.7 14.3 | 1.1 1.0 1.3 1.2 | 10.8 9.7 9.4 7.9 |
| AVERAGE RELATIVE STANDARD ERRORS ¹ End of period (percent) | 4 | 3 | 10 | 7 | 8 | 10 | 41 | 14 | 10 | 10 | 14 | 25 | 6 | 5 | 22 | 10 | 5 | 6 | 14 | 8 |

^pPreliminary. ^rRevised.

¹Average Relative Standard Errors: Average for the latest 6-month period (January through June or July through December).

Note: These backlog data represent the number of housing units authorized in all months up to and including the last day of the reporting period and not started as of that date without regard to the months of original permit issuance. Cancelled, abandoned, expired, and revoked permits are excluded from the backlog.

Table 4. New Privately Owned Housing Units Started by Location and Type of Structure

[Thousands of units. Detail may not add to total because of rounding]

| | | Ur | nited Stat | es | Ins | ide MSA | 's ¹ | Out | side MSA | ∖'s¹ | | Northeast | t | | Midwest | | | South | | | West | |
|--|--|---|---|---|--|---|---|--|---|--|---|---|--|---|--|---|--|---|---|---|---|---|
| | Period | | In stru wit | ictures h— | | In stru wit | ictures h— | | In stru with | | | In stru witl | | | In stru witi | ctures h— | | In stru wit | ictures h— | | In stru wit | ictures h— |
| | | Total ² | 1 unit | 5 units or more | Total ² | 1 unit | 5 units or more | Total ² | 1 unit | 5 units or more | Total ² | 1 unit | 5 units or more | Total ² | 1 unit | 5 units or more | Total ² | 1 unit | 5 units or more | Total ² | 1 unit | 5 units or more |
| AN | INUAL DATA | | | | | | | | | | | | | | | | | | | | | |
| 1978 1979 1980 1981 1982 1983 1985 1986 1986 1988 1988 1989 1990 1991 1993 1993 1993 1995 | | $\begin{array}{c} 1,987\\ 2,020\\ 1,745\\ 1,292\\ 1,084\\ 1,062\\ 1,703\\ 1,750\\ 1,750\\ 1,750\\ 1,805\\ 1,620\\ 1,488\\ 1,376\\ 1,193\\ 1,014\\ 1,208\\ 1,457\\ 1,354\\ 1,457\\ 1,354\\ 1,477\end{array}$ | $\begin{array}{c} 1,451\\ 1,433\\ 1,194\\ 852\\ 705\\ 6633\\ 1,068\\ 1,084\\ 1,072\\ 1,179\\ 1,146\\ 1,081\\ 1,081\\ 1,081\\ 1,072\\ 1,179\\ 1,146\\ 1,081\\ 1,161\\ 1,161\\ \end{array}$ | 414 462 429 331 288 320 522 524 576 542 409 348 318 260 138 133 133 224 224 224 224 | $\begin{array}{c} 1,377\\ 1,432\\ 1,241\\ 914\\ 760\\ 785\\ 1,351\\ 1,415\\ 1,546\\ 1,372\\ 1,243\\ 1,546\\ 1,372\\ 1,243\\ 1,243\\ 1,243\\ 1,243\\ 1,243\\ 1,243\\ 1,103\\ 1,103\\ 1,103\\ 1,211\\ 1$ | 943 941 7900 563 458 452 795 830 882 970 934 874 798 685 648 685 648 793 897 958 897 958 | 347 396 362 271 236 274 464 491 535 508 385 323 289 233 289 233 117 114 200 221 242 | 610 588 505 379 324 277 352 335 248 245 248 245 246 225 266 274 246 256 274 245 | 508 492 405 289 247 212 254 190 209 212 207 205 210 193 237 229 241 215 225 | 68 66 67 59 52 46 88 53 41 24 25 29 21 22 29 23 29 23 29 | 202 200 178 125 117 168 204 259 235 178 269 235 178 131 113 126 138 138 132 | 156 147 123 87 84 79 123 158 182 228 204 181 132 104 99 112 116 123 102 | 36 43 40 25 35 55 50 42 21 8 11 8 12 15 | 465 451 349 218 165 243 243 243 243 296 298 274 266 253 233 288 298 329 298 329 298 329 298 329 298 | 337 325 243 142 110 99 153 167 148 188 203 194 193 194 231 268 251 268 254 | 99 98 86 40 38 86 60 77 91 81 66 20 31 42 37 50 451 | 783 824 748 643 562 5935 866 782 733 634 575 536 479 414 497 562 639 615 662 | 588 604 522 428 363 357 557 528 504 485 443 443 409 371 353 438 498 498 522 485 522 | 163 185 185 153 189 317 274 220 129 115 109 99 51 55 55 107 125 | 538 545 470 205 382 436 468 483 420 404 396 404 329 254 284 302 351 331 331 | 370 358 306 196 148 127 234 230 234 255 264 275 264 275 226 197 244 261 286 256 261 286 271 | $\begin{array}{c} 117\\ 137\\ 119\\ 80\\ 69\\ 61\\ 121\\ 175\\ 204\\ 200\\ 148\\ 125\\ 108\\ 91\\ 47\\ 36\\ 33\\ 54\\ 67\\ 79\end{array}$ |
| | RTERLY DATA | | | | | | | | | | | | | | | | | | | | | |
| 1993: | 1st quarter2nd quarter3rd quarter4th quarter | 241 367 356 324 | 213 324 309 279 | 22 35 37 38 | 198 289 284 261 | 176 253 245 224 | 18 30 33 33 | 43 79 71 63 | 38 71 64 56 | 4 5 4 6 | 19 36 38 33 | 17 34 35 30 | 1 2 3 2 | 46 89 86 78 | 40 74 73 64 | 4 12 9 12 | 119 156 147 140 | 107 140 130 121 | 10 13 15 17 | 57 87 85 73 | 49 76 71 64 | 6 8 11 8 |
| 1994: | 1st quarter 2nd quarter 3rd quarter 4th quarter | 294 423 398 343 | 253 354 326 266 | 35 60 62 66 | 248 339 317 279 | 212 279 254 212 | 32 53 55 60 | 46 84 81 63 | 41 75 72 54 | 4 7 6 7 | 20 43 39 36 | 17 39 35 32 | 3 3 4 3 | 51 104 94 79 | 45 86 77 60 | 5 16 14 15 | 142 180 167 150 | 121 148 137 115 | 19 29 27 32 | 80 95 98 78 | 69 81 77 58 | 9 12 17 16 |
| 1995: | 1st quarter 2nd quarter 3rd quarter 4th quarter | 270 371 387 326 | 214 297 308 257 | 48 65 69 62 | 226 298 314 268 | 177 232 245 207 | 44 59 62 56 | 44 73 73 58 | 37 65 63 50 | 4 6 7 6 | 22 36 33 27 | 19 29 30 24 | 2 5 2 3 | 45 85 89 71 | 36 70 72 57 | 8 12 14 13 | 134 160 170 152 | 106 127 133 118 | 24 30 35 31 | 69 91 95 76 | 54 70 73 59 | 14 19 19 15 |
| 1996: | 1st quarter 2nd quarter 3rd quarter 4th quarter | 303 428 410 335 | 240 344 324 252 | 57 69 75 69 | 253 348 332 278 | 198 275 257 206 | 52 62 66 62 | 49 80 78 58 | 42 69 67 47 | 6 7 9 8 | 21 39 38 34 | 18 33 33 27 | 2 4 5 | 53 96 99 74 | 43 78 78 55 | 8 13 17 14 | 145 188 176 152 | 117 154 139 115 | 27 30 34 34 | 84 105 97 76 | 62 79 74 55 | 20 22 20 17 |
| 1997: | 1st quarter ^r | 292 | 235 | 50 | 251 | 199 | 46 | 41 | 35 | 4 | 26 | 20 | 5 | 48 | 40 | 6 | 140 | 112 | 25 | 79 | 62 | 14 |
| | AGE RELATIVE DARD ERRORS ³ | | | | | | | | | | | | | | | | | | | | | |
| | (percent) y (percent) | 1 2 | 1 2 | 2 7 | 1 2 | 1 1 | 2 7 | 3 6 | 3 5 | 11 29 | 1 3 | 1 2 | 8 15 | 2 5 | 2 3 | 7 23 | 2 3 | 2 3 | 4 10 | 1 2 | 1 2 | 2 4 |

'Revised.

¹Metropolitan statistical areas. ²Includes units started in structures with two to four units. ³Average Relative Standard Errors (Avg. RSE): Annual—Avg. RSE for the last 2 years; Quarterly—Avg. RSE for the latest 2-quarter period (quarter 1 through quarter 2 or quarter 3 through quarter 4).

Table 5. New Mobile Homes: Placements, Average Sales Price, Dealers' Inventories, and Manufacturers' Shipments

[Placements and inventory figures may not add to total because of rounding]

| | | | | | Plac | ed for re | esidential | use | | | | N | umber or | o doolor | loto ot or | d | |
|----------------------|--|--|--|--|--|--|--|--|--|--|--|--|---|--|--|--|--|
| | Period | | Numb | er (thous | ands) | | A | verage s | sales pric | e (dollar | s) | | | od (thou: | | iu | Mobile home |
| | | United States | North- east | Mid- west | South | West | United States | North- east | Mid- west | South | West | United States | North- east | Mid- west | South | West | ship- ments (thous) |
| AN | NUAL DATA | | | | | | | | | | | | | | | | |
| 1993 1994 1995 | | 212.0 242.5 286.1 310.7 319.7 | 15.0 15.4 16.2 14.6 15.4 | 42.2 44.5 53.0 56.0 56.6 | 124.4 146.7 174.4 198.3 205.1 | 30.4 35.9 42.5 41.8 42.6 | 28,400 30,500 33,500 36,300 38,400 | 30,900 32,000 33,900 37,600 40,200 | 28,800 31,400 34,600 36,600 39,600 | 25,400 27,700 30,500 34,000 36,100 | 39,000 40,500 44,600 46,800 47,700 | 50.9 61.4 72.3 91.0 110.2 | 3.9 4.2 3.9 4.6 4.8 | 9.1 10.6 12.4 15.9 16.3 | 31.7 39.2 47.4 58.0 75.5 | 6.2 7.3 8.6 12.5 13.6 | 210.5 254.3 303.9 339.9 363.3 |
| MO | NTHLY DATA | | | | | | | | | | | | | | | | |
| | asonally Adjusted | | | | | | | | | | | | | | | | |
| 1996: | January February March April May June | 18.6 25.2 26.7 22.1 29.8 31.2 | 0.7 1.0 0.9 0.7 1.7 1.6 | 2.1 3.6 3.7 3.4 5.6 6.1 | 13.4 17.3 18.5 15.0 18.7 18.9 | 2.3 3.4 3.7 3.0 3.8 4.7 | 37,500 36,600 35,900 38,700 38,100 39,000 | 42,800 35,000 35,300 36,200 38,400 41,800 | 39,600 37,600 36,700 46,700 38,700 39,300 | 35,700 34,600 34,200 35,700 35,900 36,300 | 44,600 46,700 43,900 46,500 48,200 49,200 | 88.8 86.9 88.5 96.7 98.3 100.7 | 4.6 4.6 4.8 5.3 5.0 4.9 | 16.1 16.3 16.8 18.2 18.6 17.9 | 56.8 54.7 55.5 61.1 63.0 66.1 | 11.4 11.4 11.5 12.1 11.8 11.7 | 27.1 27.2 30.1 32.5 33.5 31.2 |
| | July August September October November December | 26.3 30.7 27.2 36.0 24.7 21.1 | 1.6 1.9 1.6 1.4 1.3 1.1 | 5.3 6.4 5.6 6.3 4.1 4.3 | 15.6 18.0 15.9 24.3 16.4 13.0 | 3.7 4.4 4.1 3.9 2.9 2.7 | 39,600 38,000 39,700 38,800 39,500 39,500 | 38,600 40,100 43,500 41,300 42,700 44,200 | 40,400 38,100 41,000 40,000 39,800 38,400 | 37,400 35,800 36,400 36,800 37,600 37,000 | 48,800 46,100 49,900 48,700 48,800 50,100 | 103.3 105.3 108.5 107.7 108.0 110.2 | 5.1 5.1 5.2 5.4 5.1 4.8 | 17.8 17.3 16.9 16.9 16.9 16.3 | 68.7 71.5 74.7 72.7 73.0 75.5 | 11.7 11.4 11.7 12.6 12.9 13.6 | 29.1 34.3 31.5 36.0 28.0 22.9 |
| 1997: | January February ^p March | 20.0 16.2 (NA) | 0.6 0.4 (NA) | 2.2 1.6 (NA) | 14.3 11.7 (NA) | 2.9 2.5 (NA) | 39,000 40,300 (NA) | 47,100 45,800 (NA) | 41,900 42,200 (NA) | 36,600 38,100 (NA) | 47,400 49,600 (NA) | 115.7 125.6 (NA) | 5.1 5.4 (NA) | 17.3 19.2 (NA) | 78.9 85.4 (NA) | 14.5 15.5 (NA) | 26.7 26.3 28.8 |
| Seaso | nally Adjusted ¹ | | | | | | | | | | | | | | | | |
| 1996: | January February March April May June | 313 368 329 256 314 324 | 17 20 14 9 17 16 | 51 74 58 45 57 60 | 205 224 211 164 198 200 | 39 50 45 38 41 48 | | (X) (X) (X) (X) (X) (X) (X) | | (X) (X) (X) (X) (X) (X) | (X) (X) (X) (X) (X) (X) | 88 82 86 93 96 100 | 555555 5555555555555555555555555555555 | 17 15 16 17 17 17 | 55 52 54 60 63 67 | 11 11 11 11 11 11 | 350 346 368 373 366 372 |
| | July August September October November December | 295 323 314 391 312 292 | 16 17 16 13 15 15 | 53 58 57 60 48 57 | 184 204 195 277 210 183 | 43 44 45 40 38 37 | | | | $(X) \\ (X) $ | (X) (X) (X) (X) (X) (X) (X) | 106 108 112 111 110 112 | 555555 5555555555555555555555555555555 | 18 18 18 18 18 18 | 72 73 77 74 73 75 | 12 12 13 13 13 13 | 366 369 372 364 354 338 |
| 1997: | January February ^p March | 337 244 (NA) | 14 9 (NA) | 52 35 (NA) | 220 162 (NA) | 50 38 (NA) | (X) (X) (X) | (X) (X) (X) | (X) (X) (X) | (X) (X) (X) | (X) (X) (X) | 114 122 (NA) | 5 6 (NA) | 18 19 (NA) | 76 83 (NA) | 15 15 (NA) | 339 355 353 |
| STAND Annual. | AGE RELATIVE DARD ERRORS ² (percent) | 4 | 17 | 9 | 5 5 | 9 | 3 | 13 | 6 | 4 | 7 | (X) | (X) | (X) | (X) | (X) | (X) (X) |
| Monthly | (percent) | 4 | 16 | 8 | 5 | 10 | 3 | 11 | 5 | 4 | 7 | 2 | 8 | 4 | 2 | 5 | (X) |

NA Not available. PPreliminary (does not apply to shipments). X Not applicable.

¹Data for placements and shipments of mobile homes are seasonally adjusted at an annual rate. ²Average Relative Standard Errors (Avg. RSE): Annual—Avg. RSE for the last 2 years; Monthly—Avg. RSE for the latest 6-month period (January through June or July through December).

Source: Except for manufacturers' shipments, these data are produced by the Commerce Department's Bureau of the Census from a survey sponsored by the Department of Housing and Urban Development. Statistics on shipments are compiled from manufacturers' reports to the National Conference of States on Building Codes and Standards (NCSBCS).

Table 6. New Privately Owned Housing Units Started by Purpose of Construction [Thousands of units. Detail may not add to total because of rounding]

| | | | | | | In structu | res with- | | | |
|---------|--|----------------|----------------|-----------------------|---------------------|------------------------|-----------|------------|-----------------|------------|
| | | | | | 1 unit | | | | 2 units or more | 9 |
| | Period | | | | | occupancy er's land | | | | |
| | | Total | Total | For sale ¹ | Contractor built | Owner built | For rent | Total | For sale | For rent |
| | ANNUAL DATA | | | | | | | | | |
| 1977 | | 1,987 | 1,451 | 904 | 298 | 240 | 9 | 536 | 90 | 446 |
| | | 2,020 | 1,433 | 901 | 287 | 231 | 14 | 587 | 131 | 456 |
| | | 1,745 | 1,194 | 742 | 213 | 222 | 17 | 551 | 173 | 378 |
| | | 1,292 | 852 | 526 | 149 | 164 | 12 | 440 | 163 | 277 |
| | | 1,084 | 705 | 426 | 122 | 148 | 10 | 379 | 158 | 221 |
| | | 1,062 1,703 | 663 1,068 | 409 713 | 108 151 | 133 179 | 12 24 | 400 635 | 140 210 | 259 425 |
| | | 1,703 | 1,088 | 713 | 157 | 165 | 33 | 665 | 210 | 423 |
| | | 1,742 | 1,072 | 713 | 177 | 157 | 26 | 669 | 154 | 515 |
| 1986 | | 1,805 | 1,179 | 782 | 204 | 166 | 27 | 626 | 143 | 483 |
| | | 1,620 | 1,146 | 732 | 208 | 178 | 28 | 474 | 130 | 344 |
| | | 1,488 | 1,081 | 709 | 196 | 154 | 22 | 407 | 99 | 307 |
| 1989 | | 1,376 | 1,003 | 648 | 192 | 144 | 19 | 373 | 87 | 286 |
| | | 1,193 | 895 | 529 | 196 | 147 | 22 | 298 | 56 | 241 |
| | | 1,014 | 840 | 490 | 198 | 138 | 14 | 174 | 41 | 132 |
| | | 1,200 | 1,030 | 618 | 224 | 168 | 19 | 170 | 41 | 128 |
| | | 1,288 | 1,126 | 716 | 225 | 162 | 22 | 162 | 44 52 | 118 |
| | | 1,457 1,354 | 1,198 1,076 | 763 712 | 245 199 | 169 133 | 22 33 | 259 278 | 52 51 | 206 227 |
| | | 1,477 | 1,161 | 774 | 218 | 133 | 25 | 316 | 59 | 257 |
| | QUARTERLY DATA | | | | | | | | | |
| 1991: | 1st quarter. | 185 | 147 | 92 | 33 | 19 | 3 | 39 | 8 | 31 |
| | 2nd quarter | 301 | 254 | 147 | 59 | 45 | 4 | 47 | 12 | 34 |
| | 3rd quarter | 285 | 240 | 135 | 60 | 42 | 3 | 45 | 12 | 33 |
| | 4th quarter | 243 | 200 | 118 | 47 | 30 | 4 | 43 | 9 | 34 |
| 1992: | 1st quarter | 262 | 219 | 145 | 42 | 28 | 4 | 44 | 10 | 34 |
| | 2nd quarter | 341 | 296 | 173 | 67 | 52 | 4 | 44 | 11 | 34 |
| | 3rd quarter | 322 | 276 | 159 | 64 | 49 | 5 | 46 | 10 | 36 |
| | 4th quarter | 275 | 239 | 145 | 52 | 37 | 5 | 36 | 11 | 25 |
| 1993: | 1st quarter | 241 | 213 | 142 | 42 | 26 | 3 | 27 | 10 | 18 |
| | 2nd quarter | 367 | 324 | 204 | 62 | 52 | 6 | 43 | 11 | 32 |
| | 3rd quarter | 356 | 309 | 192 | 64 | 48 | 5 | 46 | 12 | 34 |
| | 4th quarter | 324 | 279 | 181 | 55 | 38 | 6 | 45 | 11 | 34 |
| 1994: | 1st quarter | 294 | 253 | 176 | 46 | 26 | 5 | 41 | 12 | 30 |
| | 2nd quarter | 423 | 354 | 221 | 75 | 54 | 4 | 69 | 14 | 54 |
| | 3rd quarter | 398 | 326 | 199 | 71 | 50 | 5 | 72 | 16 | 56 |
| | 4th quarter | 342 | 266 | 170 | 52 | 36 | 7 | 77 | 12 | 64 |
| 1995: | 1st quarter | 270 | 214 | 149 | 37 | 25 | 4 | 56 | 11 | 45 |
| | 2nd quarter | 371 | 297 | 195 | 54 | 37 | 10 | 74 | 15 | 59 |
| | 3rd quarter | 387 | 308 | 198 | 59 | 42 | 9 | 79 | 13 | 66 |
| | 4th quarter | 326 | 257 | 177 | 46 | 27 | 8 | 69 | 12 | 57 |
| 1996: | 1st quarter | 303 | 240 | 175 | 40 | 21 | 4 | 63 | 11 | 52 |
| | 2nd quarter | 428 | 344 | 229 | 70 | 39 | 5 | 85 | 18 | 67 |
| | 3rd quarter | 410 | 324 | 210 | 63 | 44 | 7 | 87 | 18 | 68 |
| | 4th quarter ^r | 335 | 252 | 171 | 46 | 30 | 5 | 83 | 16 | 67 |
| 1997: | 1st quarter ^p | 292 | 235 | 169 | 39 | 22 | 4 | 58 | 12 | 46 |
| | AVERAGE RELATIVE STANDARD ERRORS ² | | | | | | | | | |
| Annual. | | 1 | 1 | 2 | 6 | 5 | 10 | 3 | 9 | 3 |
| | y(percent) | 2 | 1 | 2 | 7 | 6 | 18 | 6 | 12 | 7 |

^pPreliminary. ^rRevised.

¹Includes houses already sold when construction started. ²Average Relative Standard Errors (Avg. RSE): Annual—Avg. RSE for the last 2 years; Quarterly—Avg. RSE for the latest 2-quarter period (quarter 1 through quarter 2 or quarter 3 through quarter 4).

Note: Housing units for which purpose of construction was not reported have been distributed proportionally to those for which the information was reported.

Appendix A. **Definitions and Survey Description**

DEFINITIONS

The start of construction of a privately owned housing unit is when excavation begins for the footings or foundation of a building intended primarily as a housekeeping residential structure and designed for nontransient occupancy. All housing units in a multifamily building are defined as being started when excavation for the building has begun. Beginning with statistics for September 1992, estimates of housing starts include units in residential structures being totally rebuilt on an existing foundation.

A housing unit is a single room or group of rooms intended for occupancy as separate living quarters by a family, by a group of unrelated persons living together, or by a person living alone. Separate living quarters are those in which the occupants do not live and eat with any other persons in the structure and which have direct access from the outside of the building or through a common hall which is used or intended to be used by the occupants of another unit or by the general public.

A housekeeping residential building is one consisting primarily of housing units. New housing starts exclude group quarters (such as dormitories and rooming houses), transient accommodations (such as transient hotels, motels, and tourist courts), mobile homes (trailers), moved or relocated buildings, and housing units created in an existing residential or nonresidential structure. However, in a building combining substantial residential and nonresidential floor areas, every effort is made to include the residential units in these statistics, even though the primary function of the entire building is for nonresidential purposes.

Housing units, as distinguished from mobile homes, include conventional "stick-built" units, prefabricated, panelized, componentized, sectional, and modular units. Except for table 5, mobile homes—single-wide and multiwide—are excluded from the statistics. A mobile home is defined as a portable dwelling constructed to be towed on its own chassis and designed for use without a permanent foundation; it is manufactured with the transportation gear as an integral part of the unit and can be towed from site to site.

Publicly owned housing units (contract awards) are excluded from the statistics. Units in structures built by private developers with partial public subsidies or which are for sale upon completion to local public housing authorities under the HUD "Turnkey" program are both classified as private housing.

The statistics, by type of structure, refer to the structural characteristics of the building. The one-unit structure category includes fully detached, semidetached (semiattached, side-by-side), rowhouses, and townhouses. In the case of attached units, each must be separated from the adjacent unit by a ground-to-roof wall in order to be classified as a one-unit structure. Also, these units must not share heating/airconditioning systems or interstructural public utilities, such as water supply, power supply, or sewage disposal lines. Units built one on top of another and those built side-byside which do not have a ground-to-roof wall and/or have common facilities (i.e., attic, basement, heating plant, plumbing, etc.) are classified by the number of units in the structure (i.e., two-unit structure, three-unit structure, etc.). In these statistics, apartment buildings are defined as buildings containing five units or more. Apartments in a conventional-type apartment building may share a common basement, heating plant, stairs, entrance halls, and water supply and sewage disposal facilities. Townhouse apartments, though attached, are not separated by a ground-to-roof wall and/or share some interstructural facilities, such as water supply, sewage disposal, etc.

Ownership is not the criterion for structural classifications in this report. A condominium apartment building is classified with apartment buildings in structures with five units or more, despite the fact that each unit is individually owned. Condominium townhouses may be in the one-unit category if each unit is separated from its neighbor by a ground-to-roof wall (no commonly shared interstructural facilities), or in the multiunit building categories if they are not separated from each other by a ground-to-roof wall (share interstructural facilities).

The standard Census geographic regions are used in the tables of this report. States contained in each region are as follows: **Northeast** — Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut, New York, New Jersey, and Pennsylvania; **Midwest** — Ohio, Indiana, Illinois, Michigan, Wisconsin, Minnesota, Iowa, Missouri, North Dakota, South Dakota, Nebraska, and Kansas; **South** — Delaware, Maryland, District of Columbia, Virginia, West Virginia, North Carolina, South Carolina, Georgia, Florida, Kentucky, Tennessee, Alabama, Mississippi, Arkansas, Louisiana, Oklahoma, and Texas; **West** — Montana, Idaho, Wyoming, Colorado, New Mexico, Arizona, Utah, Nevada, Washington, Oregon, California, Alaska, and Hawaii.

The distribution of housing starts between units inside and outside metropolitan statistical areas (MSAS) is based

on the definitions published by the Office of Management and Budget in Metropolitan Statistical Areas. Data for the period beginning January 1994 are based on the 1992 definitions, as amended June 1993; data for the period January-December 1993 are based on the 1992 definitions; data for January 1984-December 1992 are based on the 1974 definitions, as amended June 1983; data for January 1976-December 1983 are based on the 1974 definitions, as amended August 1975; data for January 1975-December 1975 are based on the 1967 definitions, as amended April 1974; data for January 1974-December 1974 are based on the 1967 definitions, as amended November 1973; data for April 1973-December 1973 are based on the 1967 definitions, as amended February 1973; data for April 1968-March 1973 are based on the 1967 definitions.

SAMPLE DESIGN AND SELECTION

The sample design for the Survey of Construction is a stratified multistage cluster design derived from the Current Population Survey (CPS), 1980 design. Each State was divided into areas made up of counties (towns in New England) and independent cities. These areas were grouped within each State to form strata for the CPS according to metropolitan status and 1980 labor force, race/ethnic origin, population change, and family and housing characteristics. One area from each of the strata was selected with probability proportional to the number of persons 16 years of age and older. The CPS strata were further stratified into 169 strata according to census region, metropolitan status, building permit activity in 1982, population, and the percent of the population in areas which do not issue permits. One of the CPS selected areas was chosen from each of these 169 strata with probability proportional to the number of persons 16 and older.

Within each of these 169 areas, the sample was selected from two different sample frames: permit-issuing places and land areas not covered by building permit systems.

Each of the 17,000 permit-issuing places was assigned to 1 of 6 size classes based on a weighted average of 1978, 1981, and 1982 permit activity. The permit places in each of the 169 areas were grouped into these 6 size classes and a systematic sample of places was selected from each one of them. Places were selected at different sampling rates in each of the classes so that larger proportions of the places were selected from the larger size classes. For example, all places in the largest size classes fell into sample if they were in the 169 areas, whereas, only an expected 1 in 40 of the places in the smallest size class fell into sample. Approximately 840 permit-issuing places were selected.

Monthly, Census field representatives sample permits from these 840 permit-issuing places. They select permits for one-to-four-unit buildings with probability proportional to the number of units at an overall rate of 1 in 40. All permits for buildings with five units or more are selected. Within each of the 169 areas, the land not covered by building permit systems, called nonpermit areas, was identified. Small land areas (1980 Census enumeration districts) in these nonpermit areas were grouped into two strata according to the 1980 population. Overall, 1 out of every 120 land areas was selected from the strata with the larger areas and 1 out of 600 was selected from the strata with the smaller areas. Monthly, Census field representatives intensively canvassed about 130 selected land areas looking for all housing units started.

In January 1995, the area covered by building permit systems was expanded to 19,000 permit-issuing places. Canvassing was stopped in those selected land areas now represented by permit-issuing places. Census field representatives continue to canvass monthly about 70 land areas still not covered by building permit systems.

HOUSING STARTS COMPILATION

The compilation of the housing starts series is a multistage process. First, an estimate is made monthly of the number of housing units for which building permits have been issued in all 19,000 permit-issuing places (Table 2). The estimate of building permit authorizations is based on a sample of 8,500 of these 19,000 jurisdictions.

Second, for each permit selected in the 840 permitissuing places, an inquiry is made of the owner or the builder to determine in which month and year the unit(s) covered by the permit was (were) started. In case the units authorized by permits in a particular month are not started by the end of that month, followups are made in successive months to find out when the units were actually started.

From this sample of permits, ratios are calculated (by type of structure) of the number of units started to the number of units covered by permits; separate ratios are calculated for units started from permits of that month and of each preceding month. These ratios, or starts rates, are then applied to the appropriate estimate of the number of units authorized by permits in the corresponding months to provide estimates of the number of units started for each month of authorization.

Having produced estimates of the number of units started with permit authorization, two additional adjustments are made.

- An upward adjustment of 3.3 percent is made to the number of one-unit structures (single-family houses) started to account for those units started within permitissuing areas but without permit authorization. (A study spanning a 4 year period indicated that permits were obtained for all buildings with two housing units or more.)
- 2. Upward imputations are made to account for those units started prior to permit authorization and for late reports.

The estimates for housing units started in the 19,000 permit-issuing places result from the procedures outlined above.

Third, units identified as started in the monthly canvass of nonpermit areas are weighted appropriately to provide an estimate of total housing starts in areas not covered by building permit systems.

Addition of this estimate of starts in nonpermit areas to the estimate of starts in the 19,000 permit-issuing places results in an estimate of total private housing units started (Table 1).

STARTS BY TYPE OF STRUCTURE

A total of 14 different sets of starts rates that change from month to month are utilized to calculate the number of housing units started by type of structure in permit places. Eight sets of starts rates are used for one-unit structures: separate sets of rates for metropolitan and nonmetropolitan areas within each of the four regions. For structures with five units or more, separate sets of starts rates are used for each of the four regions. Single sets of starts rates are used for all regions for structures with two units and for structures with three and four units.

Starts by type of structure in nonpermit areas are calculated directly in the estimating procedure described above.

BUILDING PERMITS

Data on housing units authorized by local building permits relate to the time of issuance rather than to the actual start of construction. They do, however, provide some indication of residential building activity in advance of the start of actual construction. Although construction is started on most residential buildings in the same month in which the permit is issued, several months may pass before start of construction.

The 19,000 areas with local building permit systems for which figures are currently given in this report (Table 2) account for a major portion of residential building in the United States. For the country as a whole, approximately 96 percent of private housing units are now constructed in permit-issuing places. Beginning with 1994, data are based upon 19,000 places. Data for 1985 through 1994 are for 17,000 places; data for 1978 through 1984 are for 16,000 places; data for 1971 through 1978 are for 14,000 places; data for 1968 through 1972 are for 13,000 places.

Monthly estimates of building permit authorizations are based on reports from a stratified probability sample of 8,500 local building permit jurisdictions. A more detailed description of the sample is provided in the Census Bureau's monthly C40 series, *Housing Units Authorized by Building Permits.*

MOBILE HOME SHIPMENTS

Beginning with the data for November 1977, the statistics on manufacturers' shipments of mobile homes (Table 5) produced by the National Conference of States on Building Codes and Standards (NCSBCS) are published in this report in lieu of those previously provided by the Manufactured Housing Institute (MHI). MHI has accepted, and now publishes, the NCSBCS statistics. For further information on NCSBCS data collection procedures, write to NCSBCS, 481 Carlisle Drive, Herndon, Virginia 22070.

A mobile home is defined as a movable dwelling, 8 feet or more wide and 40 feet or more long, designed to be towed on its own chassis, with transportation gear integral to the unit when it leaves the factory, and without need of a permanent foundation. These mobile homes include multiwides and expandable mobile homes. Excluded are travel trailers, motor homes, and modular housing. The shipments figures are based on reports submitted by manufacturers on the number of mobile homes actually shipped during the survey month. Shipments to dealers may not necessarily be placed for residential use in the same month as they are shipped. The number of mobile "homes" used for nonresidential purposes is not known.

MOBILE HOME PLACEMENTS

Data shown on mobile home placements (Table 5) are based on a survey conducted by the Bureau of the Census and sponsored by the Department of Housing and Urban Development.

The methodology for collecting information on new mobile homes for 1974 through 1979 involved contacting a sample of mobile home dealers each month within 137 geographic areas or primary sampling units. The dealers were requested to provide data on the number of mobile homes received from manufacturers, the number placed on a site for residential use, and the number held in inventory.

The methodology used after 1979 involves a monthly sample of new mobile homes shipped by manufacturers. The dealer to whom the sampled unit was shipped is contacted by telephone and asked about the status of the unit. This is done each month until that unit is reported placed.

RELIABILITY OF DATA

The various estimates of privately owned housing units started and privately owned housing units authorized by building permits which are shown in this publication are based on sample surveys and may differ from statistics which would have been obtained from a complete census using the same schedules and procedures. An estimate based on a sample survey is subject to both sampling error and nonsampling error. The accuracy of a survey result is determined by the joint effects of these errors.

Measures of Sampling Errors

Sampling error reflects the fact that only a particular sample was surveyed rather than the entire population. Each sample selected for the Housing Starts and Building Permits surveys is one of a large number of similar probability samples that, by chance, might have been selected under the same specifications. Estimates derived from the different samples would differ from each other. The standard error, or sampling error, of a survey estimate is a measure of the variation among the estimates from all possible samples and, thus, is a measure of the precision with which an estimate from a particular sample approximates the average from all possible samples.

Estimates of the standard errors have been computed from the sample data for selected statistics in this report. They are presented in the tables in the form of average relative standard errors. The relative standard error equals the standard error divided by the estimated value to which it refers.

The sample estimate and an estimate of its standard error allow us to construct interval estimates with prescribed confidence that the interval includes the average result of all possible samples with the same size and design. For example, suppose Table 1 of this report showed that an estimated 110.000 units in one-unit structures were started in a particular month. Further, suppose that the average relative standard error of this estimate is 3 percent. Multiplying 110,000 by 0.03, we obtain 3,300 as the standard error. This means that we are confident, with 2 chances out of 3 being correct, that the average estimate from all possible samples of one-unit structures started during the particular month is between 113,300 and 106,700 units. To increase the probability to about 9 chances out of 10 that the interval contains the average value over all possible samples (this is called a 90-percent confidence interval), multiply 3,300 by 1.6, yielding limits of 115,280 and 104,720 (110,000 units plus or minus 5,280 units). The average estimate of one-unit structures started during the specified month may or may not be contained in any one of these computed intervals; but for a particular sample, one can say that the average estimate from all possible samples is included in the constructed interval with a specified confidence of 90 percent.

Ranges of 90-percent confidence intervals for estimated percent changes are shown in the text. When the range of the confidence interval contains zero, it is unclear whether there was an increase or decrease; that is, the change is not statistically significant.

Nonsampling Errors

As calculated for this report, the coefficient of variation estimates sampling variation but does not measure all nonsampling error in the data. Nonsampling error consists of both a variance component and a bias component. Bias is the difference, averaged over all possible samples of the same size and design, between the estimate and the true value being estimated. Nonsampling errors are usually attributed to many possible sources: (1) coverage error failure to accurately represent all population units in the sample, (2) inability to obtain information about all sample cases, (3) response errors, possibly due to definitional difficulties or misreporting, (4) mistakes in recording or coding the data obtained, and (5) other errors of coverage, collection and nonresponse, response, processing, or imputing for missing or inconsistent data. These nonsampling errors also occur in complete censuses. Although no direct measures of these errors have been obtained, precautionary steps have been taken in all phases of the collection, processing, and tabulation of the data to minimize their influence.

As described in the section, "Housing Starts Compilation," a potential source of bias is the upward adjustment of 3.3 percent made to account for one-unit structures started in permit-issuing areas without permit authorization. Another source is the imputation for units started prior to permit authorization and for late reports. For the Building Permits Survey, estimates are imputed for nonresponse. The final estimates of privately owned housing units started and building permits issued are imputed less than 2 percent.

SEASONAL ADJUSTMENT

For analyzing general trends in the economy, seasonally adjusted data are usually preferred since seasonal adjustment eliminates the effect of changes that normally occur at about the same time and in about the same magnitude every year. For example, suppose that the normal monthto-month change in an unadjusted series between February and March was an increase of 20 percent. Then, an increase in the unadjusted series of less than 20 percent would be viewed as a decrease in the seasonally adjusted series; an increase of exactly 20 percent would be viewed as no change in the adjusted series; and an increase of more than 20 percent would be viewed as an increase in the adjusted series.

The recurring changes in a series that are removed by seasonal adjustment result from such factors as normal changes in weather and differing lengths of months. It should be emphasized that seasonal adjustment does not account for abnormal weather conditions or for year-toyear changes in weather.

Most of the seasonally adjusted series in this report are shown as seasonally adjusted annual rates (SAAR). A SAAR is the seasonally adjusted monthly rate multiplied by 12.

The seasonal adjustment indexes shown in this publication have been developed using X-11-ARIMA, a modification of the X-11 Census Method II seasonal adjustment program. The computation of the monthly seasonal indexes uses trading-day adjustment factors to account for different patterns of activity among days of the week and the variation in the number of times each day of the week occurs in each particular month.

The X-11-ARIMA program also gives summary statistics which are used in determining the adequacy of the seasonal adjustment. These statistics are summarized in Tables A-4 and A-5, and a brief definition of each statistic is given below Table A-5. A description of the X-11-ARIMA version appears in "The X-11-ARIMA Seasonal Adjustment Method," by Estela Bee Dagum, Statistics Canada. This publication is available from Statistics Canada, 25-A Coats Building, Ottawa, Ontario, K1A0T6. A description of the test for the impact of trading days is found in Bureau of the Census Technical Paper No. 12, "Estimating Trading-Day Variation in Monthly Economic Time Series" (1967). This paper is available from the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402.

An assumption underlying the seasonal adjustment process is that the original series can be separated into a seasonal component, a trading-day component, a trendcycle component, and an irregular component. The seasonally adjusted series consists of the trend-cycle and irregular components taken together. The trend-cycle component includes the long-term trend and the business cycle. The irregular component is made up of residual variations, such as the sudden impact of political events and the effects of strikes, unusual weather conditions, reporting and sampling errors, etc.

Housing Starts

Seasonal indexes are developed concurrently each month for total private housing starts, by region and by type of structure. With the concurrent seasonal adjustment procedure, each series is run through the X-11-ARIMA program every month as new data become available. The seasonally adjusted U.S. total is the sum of six seasonally adjusted components: single-family structures in each of the four regions, U.S. total for two-to-four unit structures, and U.S. total for structures with five units or more. Also, the unadjusted data for the four regions are seasonally adjusted and subsequently modified so that the seasonally adjusted U.S. total derived from the regions equals the seasonally adjusted U.S. total derived from the structures. The seasonal indexes for private housing starts shown in Table A-1 include trading-day adjustment factors which were estimated internally by the regression routine.

Building Permits

Seasonal indexes are also developed concurrently each month for total housing units authorized by building permits, by region and by type of structure. The seasonally adjusted building permits estimates are computed using a procedure similar to that used for housing starts. Regional estimates of units in structures with two units or more are not seasonally adjusted directly. These seasonally adjusted annual rates are derived by calculating the differences between the seasonally adjusted regional total and oneunit estimates.

Trading-day adjustment factors for building permits are not estimated internally by the regression routine. The daily pattern obtained empirically from the unadjusted building permits data closely approximates a 5-day week in which Monday through Friday are assigned equal weight and Saturday and Sunday receive zero weights, and, thus, the trading-day adjustment is based on this pattern. (There is no holiday adjustment in the assignment of daily weights.) The seasonal indexes for building permits shown in Table A-2 include this trading-day adjustment.

Mobile Home Shipments

Seasonal indexes for mobile home shipments are derived once a year; projected indexes are computed for the upcoming 12 months. Seasonal adjustment of mobile home shipments, beginning in November 1977, is based on shipments from July 1976 through December 1995, as reported by NCSBCS, and adjusted MHI shipments for the period January 1970 through June 1976. Seasonal adjustment of mobile home shipments for the period January 1976 through October 1977 is based on shipments from January 1959 through September 1977 that were provided by MHI, and included estimates for firms not associated with MHI. The seasonal indexes shown in Table A-3 include trading-day adjustment factors which were estimated internally by the regression routine.

Mobile Home Placements

Seasonal indexes are developed concurrently for each month for total mobile home placements and mobile homes on dealer lots. The seasonally adjusted U.S. total is the sum of the four regional components. The seasonal indexes shown in Table A-3 include trading-day adjustment factors which were estimated internally by the regression routine.

CENSUS BUREAU CONSTRUCTION REPORTS AND RELATED PUBLICATIONS

Current Construction Reports, Series C21: New Residential Construction in Selected Metropolitan Areas (quarterly).

Current Construction Reports, Series C22: *Housing Completions* (monthly).

Current Construction Reports, Series C25: *New One-Family Houses Sold* (monthly).

Current Construction Reports, Series C30: Value of New Construction Put in Place (monthly).

Current Construction Reports, Series C50: *Expenditures* for Residential Improvements and Repairs (quarterly).

Construction Review: A quarterly publication of the Internation Trade Administration, U.S. Department of Commerce.

Table A-1. Seasonal Indexes Used to Adjust Housing Units Started

| | | | | In structure | es with- | | | | All u | units | |
|------------|--------------------------------|----------------|---------|--------------|----------|-----------------|--------------------|----------------|---------|-------|-------|
| Period | United States | | 1 u | nit | | | | | | | |
| | implicit index ¹ | North- east | Midwest | South | West | 2 to 4 units | 5 units or more | North- east | Midwest | South | West |
| 1994 | | | | | | | | | | | |
| January | 71.9 | 55.2 | 51.4 | 78.5 | 77.4 | 67.3 | 85.1 | 61.8 | 53.4 | 83.3 | 80.4 |
| | 75.0 | 49.2 | 52.2 | 85.5 | 83.0 | 68.5 | 76.2 | 53.3 | 53.3 | 84.8 | 80.7 |
| | 103.0 | 89.8 | 95.6 | 111.6 | 109.7 | 99.8 | 88.9 | 90.5 | 95.6 | 111.2 | 105.4 |
| | 112.7 | 113.6 | 118.7 | 114.4 | 108.4 | 121.2 | 106.4 | 111.0 | 115.8 | 113.5 | 110.1 |
| | 117.0 | 118.1 | 127.1 | 113.9 | 116.7 | 106.5 | 114.1 | 119.5 | 126.7 | 115.2 | 114.8 |
| | 116.2 | 128.5 | 129.9 | 110.8 | 116.2 | 130.0 | 102.2 | 129.1 | 128.2 | 106.5 | 114.0 |
| July . | 106.6 | 115.6 | 118.2 | 101.6 | 105.5 | 110.2 | 99.0 | 111.4 | 113.5 | 103.2 | 107.9 |
| August . | 115.7 | 114.0 | 122.2 | 109.0 | 120.9 | 109.4 | 119.8 | 119.1 | 124.5 | 105.9 | 118.0 |
| September. | 105.9 | 111.4 | 112.6 | 101.9 | 101.6 | 103.5 | 110.1 | 108.2 | 111.2 | 101.8 | 103.8 |
| October . | 108.1 | 115.6 | 116.7 | 100.5 | 100.5 | 101.5 | 119.6 | 117.4 | 119.6 | 102.1 | 103.6 |
| November . | 90.1 | 101.4 | 88.7 | 89.1 | 81.9 | 107.8 | 92.8 | 96.6 | 93.4 | 89.4 | 82.0 |
| December . | 81.2 | 89.2 | 67.7 | 84.4 | 79.0 | 76.9 | 87.0 | 82.4 | 66.6 | 85.0 | 79.6 |
| 1995 | | | | | | | | | | | |
| January . | 73.3 | 55.0 | 52.7 | 79.0 | 79.6 | 63.6 | 86.2 | 60.2 | 53.3 | 83.6 | 81.4 |
| February | 73.9 | 48.0 | 50.8 | 85.4 | 82.7 | 67.9 | 75.8 | 54.0 | 52.0 | 84.2 | 80.8 |
| March | 99.9 | 88.4 | 94.4 | 109.6 | 106.2 | 101.8 | 84.3 | 88.1 | 92.2 | 106.8 | 101.1 |
| April | 109.8 | 111.1 | 113.8 | 111.1 | 106.1 | 115.4 | 105.8 | 109.8 | 113.4 | 112.1 | 109.2 |
| May | 119.6 | 120.3 | 130.5 | 116.9 | 118.5 | 111.4 | 118.0 | 121.4 | 128.5 | 117.5 | 116.0 |
| June | 114.5 | 128.4 | 129.0 | 110.2 | 115.9 | 131.8 | 98.3 | 129.5 | 127.0 | 105.1 | 114.2 |
| July | 105.8 | 115.4 | 118.3 | 101.8 | 105.0 | 110.0 | 100.1 | 113.0 | 115.7 | 104.8 | 109.0 |
| August | 116.1 | 114.1 | 122.6 | 108.7 | 121.1 | 107.4 | 121.1 | 120.1 | 127.1 | 107.0 | 119.0 |
| September | 106.6 | 113.3 | 113.2 | 101.9 | 102.6 | 104.6 | 111.8 | 110.4 | 111.5 | 102.2 | 104.4 |
| October . | 109.6 | 118.1 | 120.1 | 102.1 | 102.7 | 100.5 | 120.4 | 117.9 | 121.0 | 102.4 | 104.9 |
| November | 88.6 | 99.0 | 87.6 | 87.9 | 80.8 | 111.5 | 92.3 | 94.7 | 93.4 | 89.2 | 80.8 |
| December | 79.3 | 86.5 | 66.1 | 83.4 | 76.9 | 73.9 | 84.6 | 78.6 | 64.9 | 83.1 | 76.7 |
| 1996 | | | | | | | | | | | |
| January . | 75.3 | 55.6 | 53.9 | 80.4 | 81.8 | 62.9 | 87.1 | 59.1 | 53.4 | 84.7 | 82.6 |
| February . | 75.7 | 49.5 | 51.6 | 88.2 | 85.4 | 70.8 | 79.5 | 57.3 | 53.4 | 87.7 | 85.2 |
| March . | 97.4 | 86.4 | 92.0 | 106.8 | 102.7 | 98.4 | 82.4 | 87.6 | 90.8 | 104.9 | 98.9 |
| April . | 115.6 | 117.4 | 119.1 | 117.1 | 112.5 | 118.6 | 110.7 | 115.1 | 118.0 | 116.8 | 114.4 |
| May . | 117.0 | 117.2 | 126.7 | 114.1 | 115.3 | 112.5 | 116.2 | 117.6 | 124.2 | 114.4 | 112.1 |
| June . | 111.3 | 125.3 | 124.9 | 107.0 | 111.9 | 127.8 | 95.4 | 128.3 | 124.9 | 103.5 | 113.5 |
| July | 110.6 | 120.0 | 124.0 | 105.9 | 110.0 | 113.7 | 102.2 | 114.8 | 118.6 | 106.7 | 110.7 |
| August | 114.2 | 112.1 | 121.0 | 107.4 | 118.9 | 104.3 | 119.0 | 118.9 | 126.3 | 106.5 | 117.5 |
| September | 105.0 | 111.3 | 111.4 | 99.5 | 101.4 | 103.0 | 110.6 | 109.9 | 109.8 | 100.4 | 103.3 |
| October | 111.6 | 120.7 | 122.7 | 103.7 | 104.4 | 103.8 | 121.3 | 120.0 | 122.8 | 103.7 | 107.2 |
| November | 90.0 | 99.4 | 89.0 | 88.5 | 80.5 | 117.6 | 94.5 | 93.7 | 95.9 | 90.1 | 79.7 |
| December | 82.6 | 86.9 | 68.1 | 85.8 | 79.4 | 73.2 | 91.1 | 82.0 | 68.4 | 87.4 | 80.4 |
| 1997 | | | | | | | | | | | |
| January | 71.7 | 61.1 | 51.0 | 77.2 | 80.6 | 59.2 | 78.3 | 55.2 | 47.5 | 79.7 | 79.9 |
| | 73.1 | 50.5 | 49.2 | 86.6 | 83.3 | 67.9 | 75.1 | 54.7 | 50.6 | 84.4 | 82.1 |
| | 96.6 | 85.2 | 92.1 | 105.7 | 102.1 | 93.4 | 84.1 | 91.4 | 91.7 | 103.5 | 103.2 |
| | 115.1 | 113.8 | 119.5 | 117.0 | 110.9 | 116.0 | 112.6 | 112.3 | 116.6 | 116.6 | 111.3 |

^pPreliminary. ^rRevised.

¹The implicit seasonal index is the ratio of the unadjusted number of housing units started in the United States to the seasonally adjusted national total of housing units started. It provides an indication of the overall seasonality for the particular month.

Note: These seasonal indexes include trading-day adjustment factors.

Table A-2. Seasonal Indexes Used to Adjust Housing Units Authorized in Permit-Issuing Places

| | | | | In structure | es with | | | | All u | units | |
|---|--|--|--|--|--|--|---|---|--|--|--|
| Period | United States | | 1 u | ınit | | | | | | | |
| | implicit index ¹ | North- east | Midwest | South | West | 2 to 4 units | 5 units or more | North- east | Midwest | South | West |
| 1994 | | | | | | | | | | | |
| January February March April. MayJune | 69.4 77.3 112.9 110.1 113.0 122.7 | 51.9 58.6 102.3 112.7 124.0 127.0 | 46.8 61.6 111.2 122.8 128.3 131.3 | 80.6 88.0 119.9 109.6 110.1 115.7 | 71.8 81.4 117.6 110.0 113.3 125.9 | 67.6 75.8 109.1 110.2 108.4 123.7 | 76.8 72.6 99.3 97.5 97.0 121.6 | 59.3 56.2 101.6 112.1 119.3 127.5 | 50.0 58.9 105.8 116.7 124.0 125.4 | 82.4 86.6 116.3 109.6 106.4 115.4 | 70.9 79.2 113.8 107.2 107.9 128.2 |
| July August September October November December | 103.1 114.6 108.0 100.4 90.0 80.9 | 111.6 118.3 107.3 108.2 98.6 81.0 | 111.7 121.2 109.5 106.4 88.2 62.2 | 100.3 111.6 101.7 94.0 87.4 79.7 | 101.8 113.5 101.4 96.3 85.6 80.9 | 94.6 114.2 105.7 109.0 99.7 81.3 | 98.2 113.7 123.1 104.1 93.6 101.7 | 110.5 118.6 107.9 108.4 100.9 78.6 | 109.6 121.3 114.2 111.8 92.6 70.6 | 98.3 109.8 106.2 93.0 88.3 85.9 | 104.6 113.5 102.4 97.3 85.9 88.4 |
| 1995 ^r | | | | | | | | | | | |
| January . February March April May June | 73.0 77.0 109.0 104.7 115.9 118.9 | 61.2 58.9 99.0 108.4 128.3 125.2 | 50.1 62.2 107.6 115.5 130.5 127.0 | 84.8 88.6 116.0 105.9 114.3 112.2 | 75.0 83.3 113.6 104.6 117.3 121.3 | 68.1 77.1 107.7 104.9 113.6 122.6 | 77.4 72.4 99.5 93.5 100.4 117.2 | 63.6 59.0 97.9 108.8 123.8 125.0 | 51.8 59.4 104.1 111.1 126.4 121.2 | 85.1 85.6 113.2 106.0 111.9 113.5 | 75.3 80.3 110.7 103.7 110.6 125.1 |
| July August September October . November December | 102.4 115.4 104.8 104.7 90.5 81.1 | 112.0 118.0 104.7 110.6 95.4 75.9 | 111.6 120.9 105.0 112.9 90.6 65.0 | 99.9 113.6 97.1 98.8 88.0 78.6 | 100.9 116.2 99.6 100.3 85.6 79.4 | 93.0 111.9 105.0 117.2 102.1 75.4 | 98.8 112.8 122.9 106.3 94.1 102.8 | 109.2 120.8 105.2 112.0 98.3 74.7 | 108.5 122.8 110.3 118.8 93.9 71.2 | 97.4 111.3 103.7 97.3 88.2 85.3 | 104.5 112.9 103.0 102.5 84.2 84.7 |
| 1996 ^r | | | | | | | | | | | |
| January February March April May June | 76.4 80.9 100.5 113.0 115.6 110.2 | 64.1 61.5 91.7 116.7 128.0 116.1 | 51.6 65.6 98.6 126.1 128.7 117.3 | 88.7 92.8 106.3 114.4 113.4 104.6 | 78.5 88.4 104.2 112.5 116.6 112.9 | 71.3 80.1 99.5 112.6 113.9 113.6 | 81.0 74.9 91.6 98.1 103.2 108.4 | 66.3 61.0 90.9 115.7 124.3 117.1 | 53.1 62.0 96.4 118.3 126.3 113.4 | 87.6 89.2 105.3 113.0 112.5 105.9 | 78.1 84.1 103.0 110.1 110.9 116.9 |
| July | 111.4 110.2 104.5 110.1 86.9 84.7 | 121.0 114.0 104.5 114.4 92.2 79.2 | 120.9 115.4 106.4 117.4 86.3 68.8 | 109.3 107.3 96.7 104.4 83.5 82.3 | 110.6 109.9 99.2 106.0 81.1 82.8 | 101.8 105.4 104.1 124.6 98.4 77.4 | 106.5 110.5 119.7 111.9 92.4 102.2 | 118.6 115.6 103.7 117.5 94.9 77.0 | 118.0 117.2 108.2 125.8 90.7 73.2 | 105.5 106.5 102.3 102.1 85.3 88.2 | 113.7 107.5 102.1 107.8 81.1 86.6 |
| 1997 | | | | | | | | | | | |
| January ^r February ^r March ^r April ^p | 76.4 77.5 98.9 113.9 | 64.0 58.5 91.4 114.9 | 51.0 62.0 99.9 126.2 | 87.8 88.3 106.2 116.2 | 78.0 84.7 103.6 113.5 | 71.2 76.4 98.2 115.0 | 82.2 73.0 87.9 101.4 | 66.5 58.0 89.1 118.0 | 53.0 59.5 94.5 121.3 | 87.3 85.2 103.4 115.8 | 78.4 80.9 100.9 111.3 |

^pPreliminary. ^rRevised.

¹The implicit seasonal index is the ratio of the unadjusted number of housing units authorized by building permits in the United States to the seasonally adjusted national total of housing units authorized. It provides an indication of the overall seasonality for the particular month.

Note: These seasonal indexes include trading-day adjustment factors.

| | New m | obile home | es placed fo | or residenti | al use | Ν | | homes on end of peri | | | |
|-----------------------|--|----------------|--------------|--------------|--------|--|----------------|-------------------------|-------|-------|----------------------------------|
| Period | United States implicit index ¹ | North- east | Midwest | South | West | United States implicit index ¹ | North- east | Midwest | South | West | Mobile home ship- ments |
| 1994 ^r | | | | | | | | | | | |
| January | 66.8 | 47.4 | 47.4 | 77.3 | 69.6 | 101.8 | 94.3 | 96.4 | 104.2 | 99.8 | 84.7 |
| February | 78.6 | 54.7 | 54.7 | 88.2 | 79.4 | 101.6 | 97.5 | 104.3 | 101.9 | 103.7 | 88.4 |
| March | 98.0 | 76.7 | 76.7 | 107.9 | 96.4 | 103.2 | 103.4 | 105.7 | 102.1 | 106.5 | 107.2 |
| April. | 101.8 | 90.6 | 90.6 | 107.3 | 97.6 | 104.4 | 109.5 | 109.3 | 101.5 | 108.0 | 100.9 |
| May | 111.2 | 116.0 | 116.0 | 109.4 | 111.1 | 103.2 | 105.8 | 109.5 | 100.3 | 105.5 | 104.9 |
| June | 118.2 | 126.6 | 126.6 | 115.7 | 115.8 | 100.8 | 104.8 | 105.2 | 99.4 | 102.9 | 111.8 |
| July | 104.2 | 118.0 | 118.0 | 99.5 | 102.2 | 97.2 | 100.5 | 99.2 | 96.1 | 98.5 | 88.9 |
| August | 117.8 | 132.4 | 132.4 | 110.4 | 124.5 | 97.8 | 101.5 | 97.0 | 97.5 | 94.8 | 115.1 |
| September | 104.2 | 117.4 | 117.4 | 99.1 | 104.5 | 95.8 | 96.7 | 94.7 | 97.2 | 92.6 | 107.8 |
| October | 110.0 | 124.4 | 124.4 | 103.6 | 117.2 | 96.4 | 97.4 | 94.0 | 98.0 | 93.5 | 106.7 |
| November | 96.8 | 104.7 | 104.7 | 95.0 | 93.6 | 97.8 | 96.0 | 92.9 | 100.3 | 96.4 | 98.3 |
| December | 86.2 | 89.1 | 89.1 | 84.7 | 86.8 | 97.8 | 92.3 | 91.2 | 100.8 | 96.9 | 82.4 |
| 1995 ^r | | 10.0 | 10.0 | | 00 F | 100.0 | | | 1010 | 00 F | |
| January | 69.4 | 48.6 | 48.6 | 77.8 | 68.5 | 100.8 | 94.2 | 96.1 | 104.2 | 99.5 | 89.4 |
| February | 79.0 | 55.5 | 55.5 | 88.7 | 79.7 | 102.2 | 97.3 | 103.8 | 101.8 | 103.9 | 88.6 |
| March | 99.4 | 77.9 | 77.9 | 107.9 | 99.3 | 103.6 | 103.2 | 105.1 | 102.1 | 106.4 | 107.4 |
| April | 101.6 | 88.8 | 88.8 | 106.6 | 95.9 | 104.6 | 109.4 | 109.5 | 101.7 | 108.2 | 96.4 |
| May | 113.2 | 115.9 | 115.9 | 112.4 | 113.0 | 102.8 | 105.5 | 109.8 | 100.2 | 105.5 | 108.4 |
| June | 118.0 | 126.5 | 126.5 | 115.9 | 115.2 | 101.8 | 104.3 | 105.4 | 99.2 | 102.9 | 111.3 |
| July | 104.8 | 118.8 | 118.8 | 100.2 | 103.0 | 96.8 | 100.4 | 99.8 | 96.0 | 98.5 | 88.1 |
| August. | 115.4 | 132.9 | 132.9 | 107.9 | 120.6 | 96.8 | 101.4 | 97.2 | 97.6 | 94.6 | 116.5 |
| September | 102.6 | 114.8 | 114.8 | 96.6 | 108.0 | 96.4 | 97.2 | 94.7 | 97.4 | 92.8 | 102.1 |
| October | 110.6 | 125.6 | 125.6 | 105.0 | 115.3 | 96.2 | 98.3 | 94.0 | 97.9 | 93.7 | 111.9 |
| November | 96.8 | 104.6 | 104.6 | 95.2 | 92.4 | 98.0 | 96.1 | 92.9 | 100.2 | 96.3 | 99.9 |
| December | 85.4 | 89.0 | 89.0 | 83.8 | 87.4 | 97.8 | 92.5 | 91.0 | 100.9 | 97.0 | 78.2 |
| 1996 ^r | | | | | | | | | | | |
| January | 71.4 | 49.2 | 49.2 | 78.3 | 70.9 | 101.0 | 94.1 | 95.9 | 104.1 | 99.2 | 93.2 |
| | 82.2 | 58.6 | 58.6 | 92.7 | 81.1 | 106.0 | 100.6 | 107.2 | 105.5 | 107.7 | 94.2 |
| | 97.4 | 75.9 | 75.9 | 105.4 | 98.0 | 103.0 | 103.0 | 104.9 | 102.1 | 106.2 | 98.1 |
| | 103.6 | 90.3 | 90.3 | 109.5 | 96.0 | 104.0 | 109.5 | 109.6 | 101.8 | 108.4 | 104.5 |
| | 113.8 | 117.2 | 117.2 | 113.4 | 110.6 | 102.4 | 105.2 | 109.8 | 100.1 | 105.4 | 109.8 |
| | 115.6 | 121.6 | 121.6 | 113.5 | 117.1 | 100.6 | 103.9 | 105.5 | 99.1 | 102.9 | 100.8 |
| July | 107.0 | 120.3 | 120.3 | 101.7 | 104.4 | 97.4 | 100.4 | 100.0 | 95.9 | 98.5 | 95.4 |
| | 114.0 | 133.1 | 133.1 | 106.1 | 119.3 | 97.6 | 101.1 | 97.4 | 97.6 | 94.5 | 111.5 |
| | 104.0 | 117.3 | 117.3 | 97.6 | 109.9 | 96.8 | 97.4 | 94.8 | 97.4 | 92.9 | 101.6 |
| | 110.4 | 125.2 | 125.2 | 105.3 | 115.8 | 97.0 | 99.0 | 94.1 | 97.9 | 94.0 | 118.7 |
| | 95.0 | 102.4 | 102.4 | 93.7 | 90.9 | 98.2 | 96.0 | 92.8 | 100.1 | 96.1 | 94.8 |
| | 86.8 | 90.0 | 90.0 | 85.4 | 87.1 | 98.4 | 92.7 | 91.0 | 101.0 | 97.1 | 81.4 |
| 1997 | | | | | | | | | | | |
| January . | 71.2 | 50.5 | 50.5 | 77.9 | 70.0 | 101.4 | 94.0 | 95.8 | 104.2 | 98.9 | 94.7 |
| February ^p | 79.6 | 54.6 | 54.6 | 86.8 | 79.0 | 103.0 | 97.4 | 103.2 | 102.3 | 104.3 | 88.8 |
| March | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | 97.8 |
| April | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | 104.8 |
| May | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | 105.6 |
| June | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | 104.5 |
| July | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | 97.0 |
| | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | 105.4 |
| | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | 106.2 |
| | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | 118.4 |
| | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | 91.0 |
| | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | 84.6 |

Table A-3. Seasonal Indexes Used to Adjust New Mobile Home Placements, Dealer's Inventories, and Manufacturers' Shipments

NA Not available. PPreliminary (does not apply to shipments). Revised (does not apply to shipments).

¹The implicit seasonal index is the ratio of the unadjusted United States estimate to the seasonally adjusted United States estimate. It provides an indication of the overall seasonality for the particular month.

Note: These seasonal indexes include trading-day adjustment factors.

Table A-4. Average Percent Changes and Related Measures for Monthly Housing Starts and Permit Authorizations

| | | Average perce | entage change | | Ratio of | Niverkan of |
|--|----------------------------------|--|--------------------------------|------------------------------|---|---|
| Series | Original series (O) | Seasonally adjusted series (CI) | Irregular component (I) | Cyclical component (C) | irregular component to cyclical component (I/C) | Number of months for cyclical dominance (MCD) |
| HOUSING STARTS | | | | | | |
| U.S. total | 12.04 | 5.96 | 5.64 | 1.57 | 3.59 | 4 |
| Northeast Midwest South West. | 23.77 24.95 11.51 13.54 | 13.91 12.52 7.57 9.47 | 13.78 12.27 7.36 9.02 | 1.76 1.56 1.82 2.17 | 7.84 7.85 4.05 4.16 | 9 9 4 4 |
| 1 unit Northeast Midwest South West. | 24.21 25.71 11.26 13.62 | 11.74 11.92 7.03 8.93 | 11.27 11.72 6.72 8.33 | 2.23 1.56 1.66 2.14 | 5.05 7.52 4.05 3.89 | 6 8 4 4 |
| 2 to 4 units 5 units or more | 26.68 20.70 | 21.41 17.00 | 21.41 16.75 | 2.36 2.31 | 9.08 7.26 | 12 7 |
| PERMIT AUTHORIZATIONS | | | | | | |
| U.S. total | 12.14 | 4.59 | 3.88 | 1.82 | 2.14 | 3 |
| Northeast Midwest South West | 18.92 22.50 10.79 13.01 | 8.44 7.83 5.99 7.20 | 7.92 7.07 5.38 6.38 | 2.05 2.56 1.82 2.55 | 3.86 2.76 2.96 2.50 | 5 4 4 4 |
| 1 unit Northeast Midwest South West | 20.26 20.48 10.56 12.09 | 7.68 5.49 3.70 5.19 | 7.17 4.94 3.31 4.59 | 2.32 1.75 1.31 1.81 | 3.10 2.83 2.53 2.53 | 4 4 3 3 |
| 2 to 4 units 5 units or more | 15.00 17.64 | 8.41 10.93 | 7.90 10.42 | 1.91 2.41 | 4.14 4.33 | 5 |

Note: See page A-11 for definitions of the measures shown in this table.

Table A-5. Average Percent Changes and Related Measures for Monthly New Mobile Home Placements, Dealers' Inventories, and Manufacturers' Shipments

| | | Average perce | entage change | | Ratio of | Number of |
|---|----------------------------------|--|---------------------------------|------------------------------|---|--|
| Series | Original series (O) | Seasonally adjusted series (CI) | Irregular component (I) | | irregular component to cyclical component (I/C) | months for cyclical dominance (MCD) |
| NEW MOBILE HOMES PLACED FOR RESIDENTIAL USE | | | | | | |
| U.S. total | 12.39 | 6.46 | 6.40 | 0.78 | 8.16 | 8 |
| Northeast Midwest South West. | 22.62 22.62 11.48 16.84 | 11.05 11.05 7.66 11.60 | 10.93 10.93 7.53 11.56 | 1.00 1.00 1.05 1.07 | 10.89 10.89 7.17 10.82 | 12 12 8 12 |
| NEW MOBILE HOMES ON DEALER LOTS AT END OF PERIOD | | | | | | |
| U.S. total | 2.34 | 1.96 | 1.46 | 1.14 | 1.28 | 2 |
| Northeast Midwest South West | 5.31 3.92 2.57 3.89 | 4.09 2.79 2.37 3.17 | 3.52 2.31 1.72 2.68 | 1.56 1.27 1.33 1.39 | 2.25 1.82 1.30 1.93 | 3 2 2 3 |
| MOBILE HOME SHIPMENTS | | | | | | |
| U.S. total | 11.24 | 2.27 | 1.55 | 1.35 | 1.15 | 2 |

Definitions of Summary Measures

The following are brief definitions of the measures shown here. More complete explanations appear in *Electronic Computers and Business Indicators* by Julius Shiskin, issued as Occasional Paper 57 by the National Bureau of Economic Research, 1957 (reprinted from the *Journal of Business*, October 1957).

'O' is the average month-to-month percentage change, without regard to sign, in the original series.

'Cl' is the average month-to-month percentage change, without regard to sign, in the seasonally adjusted series.

'l' is the average month-to-month percentage change, without regard to sign, for the irregular component, which is obtained by dividing the cyclical component into the seasonally adjusted series.

'C' is the average month-to-month percentage change, without regard to sign, in the cyclical component. 'C' is a smooth, flexible moving average of the seasonally adjusted series.

'I/C' is the average month-to-month percentage change, without regard to sign, of the irregular component divided by the average month-to-month percentage change, without regard to sign, of the cyclical component. It serves as an indication of the series' relative smoothness (small values) or irregularity (large values).

MCD (months for cyclical dominance) gives an estimate of the appropriate time span over which to observe cyclical movement in a monthly series. In deriving MCD, the average (without regard to sign) percentage changes in the irregular and in the cyclical component are computed for 1-month spans (Jan.-Feb., Feb.-Mar., etc.), 2-month spans (Jan.-Mar., Feb.-Apr., etc.), up to 12-month spans. MCD is the shortest span for which the average change (without regard to sign) in the cyclical component is larger than the average change (without regard to sign) in the cyclical component is larger than the average change (without regard to sign) in the cyclical component; thus, it indicates the point at which fluctuations begin to be more attributable to cyclical than to irregular movements. MCD is small for smooth series and large for erratic series.

Supplement. Survey of New Mobile Home Placements

During the fourth quarter of 1996, an estimated 81,800 new mobile homes were placed for residential use. Of these, 37,700 were single-wide homes and 42,500 were double-wides. The average sales price of all homes placed in the fourth quarter was \$39,100. The average price of a single-wide home was \$28,300 compared with \$47,800 for double-wides. Average prices of all homes placed in the fourth quarter of 1996 ranged from \$37,100 in the South to \$49,100 in the West. The number of homes on dealer lots at the end of December 1996 was 110,200.

In this supplement, quarterly and annual data are provided for mobile homes placed, average sales prices, and dealers' inventories. These are shown for the United States and the four census regions. The survey is conducted by the Bureau of the Census and sponsored by the Department of Housing and Urban Development.

The methodology for collecting information on new mobile homes for 1974 through 1979 involved contacting a sample of mobile home dealers each month within 137 geographic areas or primary sampling units. The dealers were requested to provide data on the number of mobile homes received from manufacturers, the number placed on a site for residential use, and the number held in inventory.

The methodology used after 1979 involves a monthly sample of new mobile homes shipped by manufacturers. The dealer to whom the sampled unit was shipped is contacted by telephone and asked about the status of the unit. This is done each month until that unit is reported as placed.

DEFINITIONS

A mobile home is defined as a movable dwelling, 8 feet or more wide and 40 feet or more long, designed to be towed on its own chassis, with transportation gear integral to the unit when it leaves the factory, and without need of a permanent foundation. These mobile homes include multiwides, which are counted as single units, and expandable mobile homes. Excluded are travel trailers, motor homes, and modular housing.

Beginning in 1980, the average sales prices are computed from data for mobile homes sold at or before the time they are placed on a site. Prices (values) of mobile homes leased or sold after placement are not collected. The average sales price computation for mobile homes placed prior to 1980 included not only the sales price of those sold, but also the intended sales price of those for sale and the value of leased mobile homes.

RELATED STATISTICS

The series of shipments of mobile homes shown in Table 5 of this report are estimates of new mobile homes shipped by manufacturers each month. These estimates differ from mobile home placements (shown in this supplement and in Table 5) in that shipments to dealers may or may not be placed in the same month as they are shipped.

RELIABILITY OF ESTIMATES

The estimates in this supplement are based on a sample survey and may differ from the results that would have been obtained from a complete census using the same schedules and procedures. An estimate based on a sample survey is subject to both sampling error and nonsampling error. The accuracy of a survey result is determined by the joint effects of these errors. Sampling error reflects the fact that only a particular sample was surveyed rather than the entire population. Nonsampling errors can be attributed to many sources: inability to obtain information about all cases in the sample, definitional difficulties, differences in interpretation of questions, inability or unwillingness of respondents to provide correct information, and errors made in processing the data. These nonsampling errors also occur in complete censuses. Although no direct measurements of the biases have been obtained, it is believed that most of the important response and operational errors were detected in the course of reviewing the data for reasonableness and consistency. As derived for this report, the estimated relative standard errors include part of the effect of nonsampling errors, but do not measure any systematic biases in the data.

Each sample selected for the Survey of New Mobile Home Placements is one of a large number of similar probability samples that, by chance, might have been selected under the same specifications. Estimates derived from the different samples would differ from each other. The standard error, or sampling error, of a survey estimate is a measure of the precision with which an estimate from a particular sample approximates the average from all possible samples. Estimates of the standard errors for mobile home placements, average sales prices, and dealers' inventories have been computed from the sample data. They are presented in the tables in the form of average relative standard errors. The relative standard error equals the standard error divided by the estimated value to which it refers. For a more detailed description of sampling variability, see the appendix in the April 1997 Current Construction Reports, C20/97-4.

Table S-1. New Mobile Homes Placed for Residential Use

[Thousands. Detail may not add to total because of rounding]

| | | Ur | nited State | es | | Northeast | | Midwest | | | | South | | West | | |
|--------|--|--------------------|----------------|----------------|--------------------|----------------|----------------|--------------------|----------------|----------------|--------------------|----------------|----------------|--------------------|----------------|----------------|
| Period | | Total ¹ | Single wide | Double wide |
| А | NNUAL DATA | | | | | | | | | | | | | | | |
| 987 | | 239.2 | 148.5 | 89.2 | 23.6 | 16.6 | 6.9 | 40.0 | 27.6 | 12.4 | 145.5 | 94.6 | 50.6 | 30.1 | 9.6 | 19.3 |
| | | 224.3 | 128.4 | 94.2 | 22.7 | 14.9 | 7.8 | 39.1 | 25.6 | 13.5 | 130.7 | 80.6 | 49.9 | 31.8 | 7.4 | 23.1 |
| | | 202.8 | 107.4 | 93.7 | 20.2 | 12.4 | 7.8 | 39.1 | 23.9 | 15.1 | 112.8 | 64.6 | 47.8 | 30.6 | 6.4 | 22. |
| | | 195.4 174.3 | 103.8 94.6 | 89.5 77.8 | 18.8 14.3 | 12.1 9.1 | 6.7 5.2 | 37.7 35.4 | 22.9 21.6 | 14.7 13.8 | 108.4 97.6 | 62.7 58.2 | 44.8 38.4 | 30.6 27.0 | 6.1 5.8 | 23. 20. |
| | | 212.0 | 114.5 | 95.5 | 15.0 | 8.3 | 6.7 | 42.2 | 25.3 | 16.9 | 124.4 | 73.4 | 50.1 | 30.4 | 7.4 | 20. |
| | | 242.5 | 127.0 | 112.4 | 15.4 | 8.6 | 6.7 | 44.5 | 24.7 | 19.7 | 146.7 | 83.8 | 61.5 | 35.9 | 9.9 | 24. |
| | | 286.1 | 146.0 | 135.9 | 16.2 | 9.0 | 7.1 | 53.0 | 27.5 | 25.3 | 174.4 | 98.8 | 73.9 | 42.5 | 10.6 | 29. |
| | | 310.7 | 158.2 | 148.3 | 14.6 | 7.9 | 6.6 | 56.0 | 29.4 | 26.6 | 198.3 | 109.8 | 86.8 | 41.8 | 11.1 | 28. |
| | | 319.7 | 154.1 | 160.3 | 15.4 | 7.8 | 7.6 | 56.6 | 27.0 | 29.4 | 205.1 | 108.3 | 94.2 | 42.6 | 11.0 | 29.2 |
| | ARTERLY DATA | | | | | | | | | | | | | | | |
| 989: | 1st quarter | 40.6 | 22.1 | 18.1 | 2.9 | 1.9 | 1.1 | 5.3 | 3.6 | 1.7 | 26.4 | 15.4 | 10.9 | 6.0 | 1.3 | 4.4 |
| | 2nd quarter 3rd quarter | 55.2 55.8 | 29.0 29.6 | 25.8 25.8 | 5.3 7.0 | 3.0 4.4 | 2.3 2.6 | 11.2 11.9 | 6.8 7.1 | 4.4 4.7 | 30.5 29.1 | 17.0 16.8 | 13.4 12.3 | 8.2 7.9 | 2.2 1.4 | 5.7 6.2 |
| | 4th quarter | 51.2 | 26.7 | 24.0 | 5.0 | 3.2 | 1.8 | 10.7 | 6.4 | 4.3 | 26.8 | 15.5 | 11.3 | 8.6 | 1.6 | 6.6 |
| 990: | 1st quarter | 38.9 | 21.4 | 17.1 | 2.0 | 1.2 | 0.8 | 5.8 | 4.0 | 1.7 | 25.1 | 14.8 | 10.3 | 6.0 | 1.4 | 4.3 |
| | 2nd quarter | 56.3 | 30.4 | 25.4 | 5.8 | 3.7 | 2.1 | 11.5 | 7.4 | 4.1 | 30.2 | 17.7 | 12.3 | 8.8 | 1.6 | 6.9 |
| | 3rd quarter | 55.1 | 29.0 | 25.3 | 6.9 | 4.6 | 2.2 | 11.1 | 6.5 | 4.6 | 28.5 | 16.3 | 11.8 | 8.6 | 1.5 | 6.7 |
| | 4th quarter | 45.2 | 23.0 | 21.6 | 4.2 | 2.6 | 1.6 | 9.3 | 5.0 | 4.3 | 24.6 | 13.9 | 10.4 | 7.2 | 1.5 | 5.3 |
| 991: | 1st quarter | 32.0 | 17.8 | 13.9 | 1.8 | 1.2 | 0.7 | 5.1 | 3.4 | 1.7 | 19.9 | 12.3 | 7.5 | 5.2 | 1.0 | 4.0 |
| | 2nd quarter | 46.5 50.7 | 26.0 27.4 | 20.1 22.8 | 3.6 4.9 | 2.5 3.2 | 1.2 1.7 | 10.1 10.3 | 6.1 6.1 | 3.9 4.2 | 25.7 27.8 | 15.8 16.3 | 9.5 11.2 | 7.1 7.8 | 1.5 1.8 | 5.4 5.7 |
| | 3rd quarter 4th quarter | 45.1 | 27.4 | 22.0 | 4.9 | 2.3 | 1.7 | 9.9 | 6.0 | 4.2 3.9 | 24.2 | 13.7 | 10.2 | 7.0 | 1.0 | 5.2 |
| 992: | 1st quarter | 43.3 | 24.7 | 18.3 | 2.0 | 1.3 | 0.7 | 6.8 | 4.3 | 2.5 | 28.1 | 17.0 | 10.9 | 6.4 | 2.1 | 4.2 |
| | 2nd quarter | 55.2 | 30.1 | 24.6 | 3.9 | 2.2 | 1.7 | 11.8 | 7.6 | 4.1 | 31.5 | 18.5 | 12.8 | 8.0 | 1.9 | 5.9 |
| | 3rd quarter | 56.6 | 29.7 | 26.2 | 4.5 | 2.5 | 2.1 | 12.2 | 6.8 | 5.4 | 31.7 | 18.6 | 12.9 | 8.2 | 1.9 | 5.9 |
| | 4th quarter | 56.9 | 30.0 | 26.4 | 4.5 | 2.4 | 2.2 | 11.5 | 6.6 | 4.9 | 33.0 | 19.3 | 13.5 | 7.8 | 1.7 | 5.9 |
| 993: | 1st quarter | 44.9 | 24.0 | 20.3 | 1.9 | 1.0 | 0.9 | 5.2 | 2.8 | 2.4 | 30.6 | 18.3 | 12.0 | 7.2 | 1.9 | 5.0 |
| | 2nd quarter | 66.4 70.8 | 35.4 38.1 | 30.2 31.8 | 5.1 4.2 | 3.2 2.2 | 1.8 2.0 | 12.4 14.8 | 7.1 8.8 | 5.3 6.0 | 39.4 41.4 | 22.1 24.2 | 16.9 16.7 | 9.5 10.4 | 2.9 2.8 | 6.2 7.2 |
| | 3rd quarter 4th quarter | 60.4 | 29.5 | 30.0 | 4.2 | 2.2 | 2.0 | 14.0 | 5.9 | 6.1 | 35.4 | 19.1 | 15.9 | 8.8 | 2.0 | 6.1 |
| 994: | 1st quarter | 54.1 | 28.6 | 24.6 | 1.9 | 1.1 | 0.8 | 8.4 | 4.8 | 3.6 | 35.7 | 20.4 | 15.0 | 8.2 | 2.4 | 5.3 |
| | 2nd quarter | 78.9 | 41.4 | 36.5 | 4.1 | 2.2 | 1.9 | 14.2 | 7.8 | 6.4 | 48.9 | 28.5 | 19.8 | 11.7 | 2.8 | 8.3 |
| | 3rd quarter | 77.3 | 40.0 | 36.2 | 5.6 | 3.2 | 2.3 | 15.3 | 7.8 | 7.5 | 45.0 | 26.5 | 18.1 | 11.4 | 2.5 | 8.3 |
| | 4th quarter | 75.8 | 35.9 | 38.6 | 4.7 | 2.6 | 2.1 | 15.1 | 7.1 | 7.9 | 44.8 | 23.3 | 21.0 | 11.2 | 2.9 | 7.6 |
| 995: | 1st quarter | 67.1 | 35.2 | 31.0 | 2.7 | 1.7 | 1.1 | 9.6 | 5.4 | 4.2 | 45.9 | 25.9 | 19.7 | 8.8 | 2.3 | 6.0 |
| | 2nd quarter | 84.2 84.3 | 45.2 41.4 | 38.1 41.7 | 3.5 5.1 | 2.0 2.9 | 1.5 2.2 | 14.3 17.3 | 8.2 8.7 | 6.2 8.6 | 55.5 50.2 | 32.0 27.0 | 23.1 22.8 | 10.9 11.7 | 3.0 2.8 | 7.4 8.0 |
| | 3rd quarter 4th quarter | 04.3 75.2 | 36.5 | 37.6 | 3.3 | 2.9 1.4 | 2.2 1.9 | 17.3 | 8.7 7.2 | 0.0 7.6 | 46.7 | 27.0 | 22.0 | 10.4 | 2.0 2.9 | 6.9 |
| 996: | 1st quarter ^r | 70.5 | 36.6 | 32.9 | 2.5 | 1.4 | 1.1 | 9.4 | 5.0 | 4.4 | 49.3 | 27.4 | 21.4 | 9.4 | 2.8 | 6.1 |
| | 2nd quarter ^r | 83.1 | 40.8 | 41.0 | 4.0 | 2.1 | 1.9 | 15.0 | 7.8 | 7.2 | 52.5 | 28.0 | 24.0 | 11.5 | 2.9 | 7.8 |
| | 3rd quarter ^r | 84.3 | 39.0 | 43.9 | 5.1 | 2.7 | 2.5 | 17.4 | 7.5 | 9.8 | 49.6 | 26.1 | 22.8 | 12.2 | 2.8 | 8.8 |
| | 4th quarter | 81.8 | 37.7 | 42.5 | 3.8 | 1.6 | 2.2 | 14.8 | 6.7 | 8.0 | 53.7 | 26.9 | 25.9 | 9.5 | 2.5 | 6.4 |
| AVE | RAGE RELATIVE | | | | | | | | | | | | | | | |
| | IDARD ERRORS ² (percent) | 2 | 3 | 2 | 9 | 15 | 11 | 5 | 8 | 5 | 2 | 4 | 3 | 5 | 13 | 5 |
| | ly (percent) | 2 | 3 | 2 | 9 | 14 | 10 | 4 | 8 | 5 | 2 | 4 | 3 | 5 | 13 | e |
| | ., | - | 0 | - | 0 | | .0 | | Ŭ | Ŭ | ~ | • | Ŭ | 0 | .0 | |

'Revised.

¹Includes mobile homes with more than two sections. ²Average Relative Standard Errors (Avg. RSE): Annual—Avg. RSE for the last 2 years; Quarterly—Avg. RSE for the latest 2-quarter period (quarter 1 through quarter 2 or quarter 3 through quarter 4).

Table S-2. Average Sales Price of New Mobile Homes Placed for Residential Use [Dollars]

| | | U | nited State | es | | Northeast | : | | Midwest | | | South | | West | | |
|-------|---------------------------------------|--------------------|------------------|------------------|--------------------|------------------|------------------|--------------------|------------------|------------------|--------------------|------------------|------------------|--------------------|------------------|------------------|
| | Period | | Single | Double |
| | | Total ¹ | wide | wide |
| | NNUAL DATA | | | | | | | | | | | | | | | |
| | | 23,700 25,100 | 18,400 18,600 | 32,400 33,600 | 25,600 27,000 | 21,200 22,100 | 36,500 36,900 | 23,700 24,600 | 19,400 19,600 | 33,300 34,000 | 21,900 22,700 | 17,400 17,300 | 30,500 | 31,000 33,900 | 20,500 21,500 | 35,000 36,500 |
| | | 27,200 | 19,600 | 35,700 | 30,200 | 24,200 | 39,900 | 26,700 | 20,900 | 35,600 | 24,100 | 17,900 | 32,700 | 37,800 | 22,300 | 40,800 |
| 1990 | | 27,800 | 19,800 | 36,600 | 30,000 | 24,500 | 40,300 | 27,000 | 20,900 | 36,400 | 24,500 | 18,300 | 33,000 | 39,300 | 22,000 | 42,600 |
| | | 27,700 | 19,900 | 36,900 | 30,400 | 23,900 | 42,300 | 27,600 28,800 | 21,400 22,800 | 37,000 | 24,500 25,400 | 18,300 | 33,600 | 38,600 | 23,700 24,000 | 41,500 |
| | | 28,400 30,500 | 20,600 21,900 | 37,200 39,600 | 30,900 32,000 | 22,700 23,800 | 41,200 42,700 | 28,800 31,400 | 22,800 | 37,800 40,100 | 23,400 27,700 | 19,200 20,600 | 33,900 37,100 | 39,000 40,500 | 24,000 | 43,000 44,600 |
| | | 33,500 | 23,900 | 42,900 | 33,900 | 25,200 | 45,400 | 34,600 | 26,200 | 43,700 | 30,500 | 22,700 | 40,500 | 44,600 | 28,100 | 48,000 |
| | | 36,300 | 26,700 | 45,900 | 37,600 | 28,600 | 48,600 | 36,600 | 28,200 | 46,100 | 34,000 | 25,700 | 44,100 | 46,800 | 31,000 | 50,700 |
| 1996 | | 38,400 | 28,200 | 47,300 | 40,200 | 29,600 | 51,400 | 39,600 | 30,800 | 47,500 | 36,100 | 27,100 | 45,700 | 47,700 | 31,100 | 51,500 |
| | ARTERLY DATA | | | | | | | | | | | | | | | |
| 1989: | 1st quarter | 26,300 | 19,400 | 34,600 | 32,200 | 26,000 | 42,700 | 25,900 | 21,300 | 36,200 | 23,500 | 17,900 | 31,800 | 36,100 | 22,800 | 38,600 |
| | 2nd quarter 3rd quarter | 26,600 27,900 | 19,000 20,200 | 34,700 36,200 | 29,000 30,700 | 22,900 24,000 | 37,100 41,900 | 26,300 27,000 | 20,300 21,400 | 35,600 35,100 | 23,900 24,500 | 17,600 18,400 | 32,000 33,100 | 35,500 39,500 | 21,100 24,100 | 39,400 40,900 |
| | 4th quarter | 27,900 | 19,600 | 37,200 | 29,600 | 24,700 | 38,800 | 27,100 | 20,800 | 36,200 | 24,300 | 17,800 | 33,800 | 39,700 | 22,300 | 43,300 |
| 1990: | 1st quarter | 26,700 | 19,200 | 36,100 | 31,200 | 25,600 | 39,600 | 25,300 | 19,800 | 37,700 | 24,000 | 18,300 | 32,700 | 37,900 | 21,000 | 42,800 |
| | 2nd quarter | 27,600 | 19,900 | 36,500 | 30,000 | 24,200 | 40,700 | 26,200 | 21,000 | 35,500 | 24,400 | 18,600 | 32,800 | 39,100 | 20,900 | 42,600 |
| | 3rd quarter | 28,000 | 20,000 | 36,600 | 29,300 | 24,400 | 39,900 | 27,200 | 20,900 | 36,100 | 24,700 | 18,300 | 33,300 | 39,000 | 22,000 24,200 | 41,500 |
| | 4th quarter | 28,600 | 19,900 | 37,100 | 30,400 | 24,600 | 40,600 | 28,700 | 21,600 | 37,000 | 24,800 | 18,000 | 33,300 | 41,100 | , | 43,800 |
| 1991: | 1st quarter 2nd quarter | 26,600 27,600 | 18,700 20,200 | 36,300 36,800 | 27,400 30,000 | 20,500 25,100 | 43,100 41,400 | 25,700 27,600 | 20,400 21,200 | 35,900 37,300 | 23,600 24,500 | 17,600 18,700 | 33,400 33,500 | 39,100 37,800 | 24,300 23,200 | 41,200 41,500 |
| | 3rd quarter | 28,000 | 20,200 | 36,900 | 31,400 | 24,400 | 44,600 | 28,100 | 22,000 | 36,800 | 24,400 | 18,300 | 33,200 | 38,600 | 23,600 | 42,000 |
| | 4th quarter | 28,400 | 20,000 | 37,200 | 31,000 | 23,700 | 40,300 | 27,900 | 21,700 | 37,500 | 25,300 | 18,300 | 34,500 | 38,900 | 24,000 | 41,300 |
| 1992: | 1st quarter | 26,700 | 19,900 | 35,800 | 27,800 | 21,100 | 39,900 | 26,500 | 21,000 | 36,500 | 24,500 | 19,100 | 33,100 | 36,500 | 23,800 | 42,000 |
| | 2nd quarter | 27,600 | 20,400 | 36,200 | 30,800 | 23,000 | 40,600 | 27,800 | 22,900 | 36,900 | 24,600 | 18,800 | 32,700 | 38,100 | 24,200 | 41,900 |
| | 3rd quarter 4th quarter | 29,100 29,700 | 21,000 20,900 | 37,600 38,600 | 32,500 30,600 | 24,200 21,500 | 42,600 40,700 | 29,800 30,300 | 23,400 23,500 | 37,700 39,400 | 25,500 26,800 | 19,500 19,600 | 33,800 35,700 | 40,600 40,200 | 23,800 24,100 | 44,100 43,500 |
| 1993: | 1st quarter | 28,700 | 20,300 | 38,000 | 31,000 | 21,300 | 42,200 | 30,000 | 22,500 | 39,100 | 26,000 | 19,500 | 35,600 | 38,800 | 23,800 | 42,400 |
| | 2nd quarter | 29,800 | 21,800 | 38,500 | 30,800 | 23,600 | 43,500 | 30,700 | 24,100 | 39,600 | 27,300 | 20,400 | 35,900 | 39,000 | 25,300 | 43,700 |
| | 3rd quarter | 30,900 | 22,000 | 40,700 | 32,500 | 23,700 | 42,500 | 31,200 | 25,000 | 40,400 | 28,000 | 20,400 | 38,700 | 41,000 | 25,500 | 45,200 |
| | 4th quarter | 32,300 | 23,100 | 40,500 | 33,500 | 25,600 | 42,300 | 33,000 | 24,800 | 40,600 | 29,300 | 21,900 | 38,000 | 42,900 | 27,100 | 46,400 |
| 1994: | 1st quarter 2nd quarter | 32,100 32,800 | 22,700 23,700 | 42,200 42,400 | 33,500 34,300 | 25,600 25,500 | 45,800 44,900 | 32,700 33,500 | 25,300 26,200 | 42,900 42,700 | 29,300 29,900 | 21,400 22,300 | 39,800 40,200 | 44,600 43,800 | 27,900 28,500 | 48,300 47,300 |
| | 3rd quarter | 33,600 | 23,700 24,300 | 43,100 | 33,900 | 23,300 24,800 | 46,000 | 35,500 | 26,600 | 42,700 | 29,900 30,100 | 22,300 | 39,700 | 45,000 | 28,000 | 48,200 |
| | 4th quarter | 34,900 | 24,500 | 43,700 | 33,700 | 25,400 | 45,000 | 35,800 | 26,400 | 44,000 | 32,400 | 23,500 | 41,900 | 45,100 | 28,000 | 48,400 |
| 1995: | 1st quarter | 34,800 | 25,300 | 45,000 | 36,000 | 27,700 | 49,700 | 34,500 | 26,800 | 45,000 | 32,800 | 24,500 | 43,500 | 45,300 | 30,200 | 49,000 |
| | 2nd quarter | 35,200 | 26,200 | 45,200 | 36,900 | 29,100 | 47,200 | 35,000 | 27,200 | 45,500 | 33,100 | 25,200 | 43,600 | 46,000 | 31,600 | 50,100 |
| | 3rd quarter 4th quarter | 36,800 38,300 | 26,700 28,500 | 45,900 47,200 | 37,200 40,200 | 28,300 29,400 | 48,900 48,700 | 37,300 38,800 | 28,400 30,100 | 46,400 46,900 | 34,100 36,000 | 25,700 27,600 | 43,800 45,400 | 47,700 48,000 | 30,600 31,600 | 50,800 52,700 |
| 1996: | 1st quarter ^r | 36,600 | 27,200 | 46,000 | 37,200 | 27,100 | 51,200 | 37,700 | 29,100 | ŕ | 34,700 | 26,500 | | 45,100 | 31,000 | 49,600 |
| 1550. | 2nd quarter ^r | 38,600 | 28,800 | 40,000 | 39,300 | 29,900 | 50,000 | 40,700 | 33,500 | 48,200 | 36,000 | 20,300 27,400 | 44,400 | 48,200 | 30,400 | 49,000 51,300 |
| | 3rd quarter ^r | 39,000 | 28,200 | 47,900 | 40,700 | 30,400 | 52,000 | 39,700 | 30,300 | 46,800 | 36,500 | 27,100 | 46,500 | 48,200 | 31,100 | 51,800 |
| | 4th quarter | 39,100 | 28,300 | 47,800 | 42,600 | 30,400 | 51,900 | 39,500 | 29,600 | 47,400 | 37,100 | 27,500 | 46,300 | 49,100 | 32,300 | 53,300 |
| | | | | | | | | | | | | | | | | |
| | DARD ERRORS ² (percent) | 2 | 3 | 2 | 7 | 11 | 9 | 3 | 6 | 3 | 2 | 3 | 3 | 4 | 10 | 4 |
| | y (percent) | 2 | 3 | 2 | 6 | 9 | 8 | 3 | 6 | 3 | 3 | 4 | 3 | 4 | 11 | 5 |
| | | | | | | 1 | 1 | | | 1 | | | 1 | | | |

'Revised.

¹Includes mobile homes with more than two sections. ²Average Relative Standard Errors (Avg. RSE): Annual—Avg. RSE for the last 2 years; Quarterly—Avg. RSE for the latest 2-quarter period (quarter 1 through quarter 2 or quarter 3 through quarter 4).

Table S-3. New Mobile Homes on Dealer Lots at End of Period

[Thousands. Detail may not add to total because of rounding]

| | | Ur | nited State | es | | Northeast Midwest | | | | | | South | | West | | |
|--------|--------------------------|----------------|----------------|--------------------|----------------|-------------------|--------------------|----------------|----------------|--------------------|----------------|----------------|--------------------|----------------|----------------|-----|
| Period | Total ¹ | Single wide | Double wide | Total ¹ | Single wide | Double wide | Total ¹ | Single wide | Double wide | Total ¹ | Single wide | Double wide | Total ¹ | Single wide | Double wide | |
| AN | NUAL DATA | | | | | | | | | | | | | | | |
| 987 | | 60.6 | 38.5 | 21.7 | 5.5 | 4.0 | 1.5 | 9.3 | 6.5 | 2.7 | 39.2 | 26.2 | 12.9 | 6.6 | 1.8 | 4.5 |
| 988 | | 58.0 | 35.1 | 22.5 | 5.7 | 3.7 | 2.0 | 10.9 | 7.6 | 3.3 | 34.9 | 21.8 | 12.9 | 6.5 | 2.0 | 4.3 |
| | | 55.5 | 33.3 | 22.0 | 5.5 | 3.6 | 1.9 | 10.6 | 7.1 | 3.5 | 33.1 | 20.7 | 12.3 | 6.3 | 1.9 | 4.3 |
| | | 49.0 | 28.3 | 20.1 | 4.1 | 2.8 | 1.3 | 9.9 | 6.3 | 3.6 | 29.2 | 18.2 | 10.8 | 5.8 | 1.1 | 4. |
| | | 49.3 | 28.9 | 20.1 | 4.4 | 2.8 | 1.6 | 10.0 | 6.7 | 3.2 | 29.1 | 18.0 | 10.9 | 5.9 | 1.4 | 4.4 |
| | | 50.9 | 28.7 | 21.7 | 3.9 | 2.4 | 1.5 | 9.1 | 5.2 | 4.0 | 31.7 | 19.4 | 11.9 | 6.2 | 1.7 | 4.3 |
| | | 61.4 | 34.6 | 26.1 | 4.2 | 2.4 | 1.8 | 10.6 | 6.2 | 4.4 | 39.2 | 24.3 | 14.7 | 7.3 | 1.7 | 5.2 |
| | | 72.3 | 38.6 | 32.6 | 3.9 | 2.3 | 1.5 | 12.4 | 6.8 | 5.5 | 47.4 | 27.0 | 20.0 | 8.6 | 2.4 | 5.5 |
| | | 91.0 | 48.2 | 41.7 | 4.6 | 2.5 | 2.1 | 15.9 | 8.2 | 7.6 | 58.0 | 33.8 | 23.7 | 12.5 | 3.6 | 8.3 |
| 996 | | 110.2 | 55.6 | 52.8 | 4.8 | 2.6 | 2.1 | 16.3 | 7.9 | 8.4 | 75.5 | 41.6 | 33.1 | 13.6 | 3.6 | 9.2 |
| QUA | RTERLY DATA | | | | | | | | | | | | | | | |
| 989: | 1st quarter | 62.6 | 37.0 | 25.3 | 6.7 | 4.3 | 2.4 | 13.0 | 8.5 | 4.5 | 35.8 | 22.2 | 13.5 | 7.0 | 2.0 | 4.9 |
| | 2nd quarter | 62.1 | 37.4 | 24.4 | 7.3 | 5.1 | 2.2 | 12.2 | 8.1 | 4.0 | 35.9 | 22.6 | 13.2 | 6.8 | 1.6 | 5.0 |
| | 3rd quarter | 56.9 | 34.2 | 22.4 | 6.2 | 4.3 | 1.9 | 11.8 | 8.0 | 3.7 | 32.7 | 20.2 | 12.3 | 6.2 | 1.7 | 4.4 |
| | 4th quarter | 55.5 | 33.3 | 22.0 | 5.5 | 3.6 | 1.9 | 10.6 | 7.1 | 3.5 | 33.1 | 20.7 | 12.3 | 6.3 | 1.9 | 4.3 |
| 990: | 1st quarter | 59.0 | 34.3 | 24.2 | 6.5 | 4.2 | 2.3 | 12.3 | 8.1 | 4.2 | 33.2 | 20.4 | 12.6 | 6.9 | 1.6 | 5.1 |
| | 2nd quarter | 55.4 | 31.6 | 23.2 | 6.2 | 4.1 | 2.1 | 11.3 | 7.0 | 4.2 | 31.5 | 19.2 | 11.9 | 6.4 | 1.3 | 4.9 |
| | 3rd quarter | 49.8 | 28.5 | 20.8 | 4.3 | 2.7 | 1.6 | 10.8 | 6.8 | 4.0 | 29.1 | 17.9 | 11.0 | 5.5 | 1.0 | 4.2 |
| | 4th quarter | 49.0 | 28.3 | 20.1 | 4.1 | 2.8 | 1.3 | 9.9 | 6.3 | 3.6 | 29.2 | 18.2 | 10.8 | 5.8 | 1.1 | 4.5 |
| 91: | 1st quarter | 52.8 | 29.9 | 22.3 | 4.8 | 3.4 | 1.4 | 11.3 | 7.2 | 4.0 | 29.5 | 17.9 | 11.3 | 7.2 | 1.3 | 5.6 |
| | 2nd quarter | 53.3 | 30.2 | 22.5 | 5.1 | 3.4 | 1.7 | 10.9 | 6.9 | 3.9 | 30.7 | 18.7 | 11.8 | 6.6 | 1.2 | 5.1 |
| | 3rd quarter | 50.6 | 29.1 | 21.0 | 4.6 | 2.9 | 1.7 | 11.2 | 7.5 | 3.7 | 29.2 | 17.9 | 11.1 | 5.6 | 0.8 | 4.5 |
| | 4th quarter | 49.3 | 28.9 | 20.1 | 4.4 | 2.8 | 1.6 | 10.0 | 6.7 | 3.2 | 29.1 | 18.0 | 10.9 | 5.9 | 1.4 | 4.4 |
| 992: | 1st quarter | 50.5 | 27.9 | 22.2 | 4.6 | 2.6 | 1.9 | 10.7 | 6.8 | 3.9 | 28.6 | 17.2 | 11.2 | 6.6 | 1.3 | 5.1 |
| | 2nd quarter | 47.9 | 25.4 | 22.1 | 4.7 | 2.8 | 1.9 | 9.9 | 5.6 | 4.3 | 27.0 | 15.7 | 11.1 | 6.3 | 1.4 | 4.7 |
| | 3rd quarter | 47.3 | 25.1 | 21.6 | 4.5 | 2.7 | 1.8 | 8.6 | 4.7 | 3.9 | 28.4 | 16.5 | 11.6 | 5.8 | 1.2 | 4.3 |
| | 4th quarter | 50.9 | 28.7 | 21.7 | 3.9 | 2.4 | 1.5 | 9.1 | 5.2 | 4.0 | 31.7 | 19.4 | 11.9 | 6.2 | 1.7 | 4.3 |
| 993: | 1st quarter | 60.6 | 33.6 | 26.3 | 4.6 | 2.9 | 1.7 | 12.5 | 7.1 | 5.4 | 36.4 | 21.8 | 14.2 | 7.1 | 1.8 | 5.0 |
| | 2nd quarter | 58.6 | 32.8 | 25.1 | 4.1 | 2.6 | 1.5 | 11.6 | 6.5 | 5.1 | 35.5 | 21.8 | 13.5 | 7.3 | 2.0 | 5.1 |
| | 3rd quarter | 55.1 | 30.0 | 24.4 | 4.6 | 2.9 | 1.7 | 10.1 | 5.3 | 4.8 | 34.2 | 20.5 | 13.4 | 6.2 | 1.3 | 4.5 |
| | 4th quarter | 61.4 | 34.6 | 26.1 | 4.2 | 2.4 | 1.8 | 10.6 | 6.2 | 4.4 | 39.2 | 24.3 | 14.7 | 7.3 | 1.7 | 5.2 |
| 994: | 1st quarter | 70.2 | 37.9 | 31.4 | 4.6 | 2.8 | 1.8 | 13.4 | 7.6 | 5.8 | 43.2 | 25.3 | 17.6 | 9.0 | 2.3 | 6.3 |
| | 2nd quarter | 70.5 | 36.6 | 33.0 | 4.7 | 2.8 | 1.8 | 14.2 | 8.0 | 6.2 | 43.0 | 23.5 | 19.1 | 8.7 | 2.3 | 5.9 |
| | 3rd quarter | 70.0 | 35.7 | 33.0 | 4.1 | 2.5 | 1.6 | 13.3 | 7.3 | 6.1 | 44.3 | 23.8 | 20.0 | 8.3 | 2.1 | 5.3 |
| | 4th quarter | 72.3 | 38.6 | 32.6 | 3.9 | 2.3 | 1.5 | 12.4 | 6.8 | 5.5 | 47.4 | 27.0 | 20.0 | 8.6 | 2.4 | 5.5 |
| 995: | 1st quarter | 76.6 | 39.8 | 35.5 | 4.3 | 2.7 | 1.5 | 14.5 | 7.3 | 7.2 | 47.5 | 27.0 | 20.2 | 10.3 | 2.8 | 6.6 |
| | 2nd quarter | 79.4 | 40.0 | 38.1 | 4.8 | 3.0 | 1.8 | 16.1 | 7.9 | 8.1 | 46.8 | 26.0 | 20.5 | 11.6 | 3.1 | 7.6 |
| | 3rd quarter | 80.0 | 41.7 | 37.2 | 4.3 | 2.3 | 1.9 | 14.7 | 7.6 | 7.1 | 49.7 | 28.7 | 20.7 | 11.4 | 3.2 | 7.5 |
| | 4th quarter | 91.0 | 48.2 | 41.7 | 4.6 | 2.5 | 2.1 | 15.9 | 8.2 | 7.6 | 58.0 | 33.8 | 23.7 | 12.5 | 3.6 | 8.3 |
| 996: | 1st quarter ^r | 88.5 | 45.6 | 41.8 | 4.8 | 2.6 | 2.3 | 16.8 | 8.7 | 8.0 | 55.5 | 31.1 | 23.8 | 11.5 | 3.1 | 7.8 |
| | 2nd quarter ^r | 100.7 | 51.3 | 48.0 | 4.9 | 2.5 | 2.4 | 17.9 | 9.2 | 8.7 | 66.1 | 36.8 | 28.6 | 11.7 | 2.8 | 8.3 |
| | 3rd quarter ^r | 108.5 | 55.3 | 51.5 | 5.2 | 2.7 | 2.4 | 16.9 | 8.5 | 8.3 | 74.7 | 41.0 | 32.9 | 11.7 | 3.1 | 7.9 |
| | 4th quarter | 110.2 | 55.6 | 52.8 | 4.8 | 2.6 | 2.1 | 16.3 | 7.9 | 8.4 | 75.5 | 41.6 | 33.1 | 13.6 | 3.6 | 9.2 |
| | AGE RELATIVE | | | | | | | | | | | | | | | |
| | DARD ERRORS ² | | | | | | | | | | | | | | | |
| | eriod (percent) | 2 | 3 | 2 | 8 | 13 | 10 | 4 | 7 | 5 | 2 | 3 | 2 | 5 | 11 | 5 |

'Revised.

¹Includes mobile homes with more than two sections. ²Average Relative Standard Errors: Average for the latest 2-quarter period (quarter 1 through quarter 2 or quarter 3 through quarter 4).