## **Housing Starts**

March

C20/01-3

This is the last "Housing Starts" publication. Information previously found in the publication will be available in the "New Residential Construction" press release. This can be found on our Web site at www.census.gov/mcd. For all series except Building Permits, we will introduce new estimation methods and revise unadjusted data and seasonally adjusted annual rates back to January 1999. The Building Permits series will have the usual annual revisions for 2000 and revised seasonal factors back to January 1999.

Current Construction **Reports** 

### **New Privately-Owned Housing Units Started**



Note: Total includes units started in structures with two to four units.

Source: U.S. Census Bureau, Housing Starts.

Questions regarding these data may be directed to Residential Construction Branch, Manufacturing and Construction Division, telephone: 301-457-1321.

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



#### HOUSING STARTS AND BUILDING PERMITS

Privately-owned housing starts in March 2001 were at a seasonally adjusted annual rate of 1,613,000. This is 1 ( $\pm$ 6) percent below the revised February rate of 1,634,000 and 1 ( $\pm$ 7) percent below the March 2000 rate of 1,630,000.

The rate for single-family housing starts in March 2001 was 1,241,000. This is 4  $(\pm 6)$  percent below the February rate of 1,297,000. The March rate for units in buildings with five units or more was 330,000, and the March rate for units in buildings with two to four units was 42,000.

During the first 3 months of this year, 349,500 housing units were started. This is 4  $(\pm 4)$  percent below the 364,600 units started during the same period in 2000.

New privately-owned housing construction was authorized in March in the 19,000 permit-issuing places at a seasonally adjusted annual rate of 1,615,000 units. This is 4  $(\pm 1)$  percent below the revised February rate of 1,675,000, but is 1  $(\pm 1)$  percent above the March 2000 rate of 1,597,000.

Single-family authorizations in March 2001 were at a rate of 1,203,000. This is 3  $(\pm 1)$  percent below the February rate of 1,239,000. Authorizations of units in buildings with five units or more were at a rate of 340,000 in March. The March rate of permit-authorized units in buildings with two to four units was 72,000.

During the first 3 months of this year, 370,600 housing units were authorized compared with 368,600 units for the same period in 2000. This is an increase 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 5 months to establish an underlying trend for total starts and 3 months for 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 are 90-percent confidence intervals and account for only sampling variability. 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.

#### **HISTORICAL DATA**

Historical data on housing starts and residential permit authorizations are available from Residential Construction Branch, Manufacturing and Construction Division, U.S. Census Bureau, Washington, DC 20233-6900. Telephone 301-457-1321.

A list of tables and special supplements is shown below:

Title			C20 issues	3	
New privately-owned housing units started, by purpose of construction (quarterly and annual data)	01-1	00-10	00-7	00-4	00-1
private residential buildings (annual data)	01-3	00-3	99-3	98-3	97-3
Total time from authorization of construction to start for private residential buildings (annual data)	01-3	00-3	99-3	98-3	97-3
New privately-owned housing units, by intended use and design at time of start (annual data)	01-2	00-2	99-2	98-2	97-2

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 MSAs <sup>1</sup>	Outside MSAs <sup>1</sup>	North- east	Midwest	South	West
ANNUAL DATA											_
1991 1992 1993 1994 1995 1996 1997 1998 1999	1,013.9 1,199.7 1,287.6 1,457.0 1,354.1 1,476.0 1,616.9 1,666.5 1,593.1	840.4 1,029.9 1,125.7 1,198.4 1,076.2 1,160.9 1,133.7 1,271.4 1,334.9 1,261.8	15.5 12.4 11.1 14.8 14.3 16.4 18.1 15.7 13.4 13.8	20.1 18.3 18.3 20.2 19.4 28.8 26.4 26.9 18.5 22.3	137.9 139.0 132.6 223.5 244.1 270.8 295.8 302.9 299.7 295.3	789.2 931.5 1,031.9 1,183.1 1,106.4 1,211.3 1,349.9 1,404.5 1,340.4	224.7 268.2 255.8 273.9 247.6 265.5 252.7 267.0 261.9 252.7	112.9 126.7 126.5 138.2 117.7 132.1 136.8 148.5 153.7 152.1	233.0 287.8 297.7 328.9 290.1 321.5 303.6 330.5 356.4 328.6	414.1 496.9 561.8 639.1 615.0 661.9 670.3 743.0 760.3 723.4	254.0 288.3 301.7 350.8 331.3 361.4 363.3 394.9 396.1 389.1
MONTHLY DATA											
Not Seasonally Adjusted											
2000: January	105.2 122.1 137.2 151.8 155.3 148.5	80.5 90.2 115.3 121.5 125.7 118.7	1.0 0.9 0.7 1.3 1.4 1.0	0.7 1.7 0.5 1.4 0.7 3.2	23.0 29.4 20.7 27.5 27.5 25.6	91.2 106.8 115.9 124.0 128.5 124.1	14.1 15.3 21.3 27.8 26.8 24.4	8.1 9.9 11.9 12.2 14.2 14.2	15.9 22.9 25.4 35.8 35.6 31.4	55.4 58.1 68.4 65.6 70.2 68.2	25.8 31.2 31.5 38.1 35.3 34.6
July August September October November. December.	138.0 142.0 132.4 141.3 117.8 101.6	108.5 114.8 104.6 111.0 90.7 80.2	1.0 1.0 1.2 2.1 1.2 1.0	3.3 2.9 2.4 2.1 2.0 1.4	25.2 23.2 24.3 26.1 23.9 18.9	114.7 118.8 110.2 117.6 98.9 89.7	23.3 23.2 22.2 23.7 18.9 11.8	14.6 13.9 14.2 15.2 12.1 11.4	30.8 29.8 28.6 32.6 25.5 14.4	57.6 62.6 56.0 64.6 49.3 47.3	34.9 35.7 33.7 28.9 30.9 28.5
2001: January <sup>r</sup> February <sup>r</sup> March <sup>p</sup>	106.3 108.0 135.2	85.5 85.8 107.5	1.0 0.6 1.3	1.4 0.8 2.1	18.4 20.7 24.3	92.3 94.9 115.9	14.0 13.1 19.3	6.6 8.2 12.2	17.2 17.8 26.9	54.0 56.1 61.7	28.5 26.0 34.4
Year to date: 2000	364.6 349.5	286.0 278.8	2.6 2.9	3.0 4.4	73.1 63.4	313.9 303.1	50.7 46.4	30.0 27.0	64.1 61.9	181.9 171.7	88.5 88.8
Seasonally Adjusted Annual Rate											
2000: January	1,744 1,822 1,630 1,652 1,591 1,571	1,361 1,324 1,327 1,310 1,258 1,227	3 4 1 3 2 3	0 6 0 6	351 458 287 312 307 305	(NA) (NA) (NA) (NA) (NA) (NA)	(NA) (NA) (NA) (NA) (NA) (NA)	153 189 155 140 148 144	381 471 330 370 345 301	821 748 772 710 737 762	389 414 373 432 361 364
July August September October November December	1,527 1,519 1,537 1,529 1,564 1,577	1,201 1,229 1,226 1,232 1,233 1,298	4 4 4 4 3	1 1 0 1	283 249 270 257 290 242	(NA) (NA) (NA) (NA) (NA) (NA)	(NA) (NA) (NA) (NA) (NA) (NA)	144 145 157 158 146 167	318 299 308 317 326 255	674 703 674 720 670 714	391 372 398 334 422 441
2001: January <sup>r</sup> February <sup>r</sup> March <sup>p</sup>	1,671 1,634 1,613	1,351 1,297 1,241	4 2 4	4	277 313 330	(NA) (NA) (NA)	(NA) (NA) (NA)	127 151 157	396 363 353	747 743 700	401 377 403
AVERAGE RELATIVE STANDARD ERRORS <sup>2</sup>											
Annual(percent)  Monthly(percent)  Year to date(percent)	1 3 2	1 3 1	7 11 8	11 13 18	3 9 8	1 3 2	3 9 5	3 7 13	2 6 4	1 4 2	1 4 2

NA Not available. PPreliminary. rRevised.

<sup>&</sup>lt;sup>1</sup>Metropolitan statistical areas.
<sup>2</sup>Average 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			l	Northeast			Midwest			South			West	
	Period			In stru wit						In stru with			In stru witl			In stru with			In stru wit	ictures h—
		Total	1 unit	2 units	3 and 4 units	5 units or more	Inside MSAs <sup>1</sup>	Outside MSAs <sup>1</sup>	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
ANNUA	AL DATA																			
1997 1998 1999		1,425.6 1,441.1 1,612.3 1,663.5 1,574.4	1,069.5 1,062.4 1,187.6 1,246.7 1,183.5	33.6 34.9 33.2 32.5 30.1	32.2 33.6 36.0 33.3 32.4	290.3 310.3 355.5 351.1 328.4	1,200.0 1,220.2 1,377.9 1,427.4 1,349.0	225.6 220.9 234.4 236.1 225.4	136.9 141.9 159.4 164.9 161.1	108.8 111.2 124.1 127.1 118.3	28.1 30.7 35.3 37.8 42.8	317.8 299.8 327.2 345.4 318.1	236.6 220.0 247.8 262.1 239.5	81.3 79.8 79.4 83.3 78.6	623.4 635.9 724.5 748.9 697.4	468.5 464.2 521.9 550.4 528.4	155.0 171.7 202.6 198.6 169.0	347.4 363.5 401.2 404.3 397.8	255.6 267.1 293.8 307.1 297.4	91.8 96.5 107.4 97.3 100.4
	HLY DATA																			
Not Sea 1998:	asonally Adjusted January	96.2	70.1	2.0	2.0	22.1	84.6	11.6	9.7	7.0	2.7	14.7	10.9	3.8	46.3	34.4	12.0	25.4	17.8	7.6
1000.	February	107.4 140.9 146.3 138.2 153.4	78.1 105.1 113.6 107.3 115.8	2.3 2.8 2.7 2.5 3.2	2.6 3.3 2.7 2.9 4.3	24.4 29.9 27.3 25.5 30.1	93.5 121.0 123.3 116.4 129.7	13.9 20.0 23.0 21.8 23.7	8.9 12.1 13.2 13.3 16.0	7.2 10.2 11.4 11.2 12.8	1.8 1.9 1.7 2.1 3.2	19.7 26.8 31.0 30.7 31.6	14.3 20.4 25.2 24.4 25.2	5.4 6.4 5.8 6.3 6.4	51.2 68.4 63.6 62.5 65.0	37.5 47.7 48.0 45.9 48.6	13.7 20.7 15.6 16.5 16.4	27.5 33.6 38.5 31.8 40.8	19.1 26.8 29.0 25.8 29.2	8.4 6.9 9.5 5.9 11.6
	July August September October November December	149.3 144.7 141.7 149.8 119.9 124.5	111.2 104.4 102.5 103.8 86.6 89.0	3.3 3.1 2.9 3.0 2.4 3.1	3.2 3.0 3.4 3.7 2.3 2.6	31.7 34.1 32.9 39.3 28.6 29.8	126.1 122.8 120.8 126.8 104.1 108.8	23.2 21.9 20.9 23.1 15.8 15.7	15.4 14.3 14.7 15.7 13.4 12.7	11.9 11.1 11.0 11.1 9.8 9.5	3.5 3.2 3.7 4.6 3.6 3.2	29.7 28.9 30.3 32.4 24.9 26.5	23.4 21.8 22.1 23.6 18.9 17.6	6.3 7.1 8.1 8.8 6.0 8.9	66.1 67.1 62.2 65.8 51.2 55.1	47.7 46.5 44.0 44.0 37.2 40.6	18.5 20.6 18.2 21.9 14.1 14.5	38.0 34.4 34.7 35.9 30.3 30.2	28.2 25.1 25.4 25.1 20.7 21.3	9.8 9.4 9.2 10.7 9.5 8.8
1999:	January	105.7 114.7 154.6 151.8 145.1 169.3	74.2 86.6 118.9 119.9 115.9 128.0	2.1 2.2 3.0 2.9 2.7 3.4	2.2 2.3 3.0 3.2 2.2 3.1	27.1 23.7 29.8 25.9 24.3 34.9	94.8 100.9 132.6 128.2 122.7 143.9	10.9 13.8 22.0 23.5 22.4 25.5	9.2 9.7 14.4 15.5 14.7 18.7	6.8 7.7 10.7 12.7 12.6 13.2	2.4 2.0 3.7 2.8 2.1 5.4	13.6 18.9 32.0 34.3 33.4 34.5	10.3 14.8 24.2 27.4 25.5 27.2	3.3 4.1 7.7 6.9 7.9 7.2	55.3 58.7 70.4 66.2 60.5 71.4	37.7 43.3 54.2 51.2 49.2 52.9	17.6 15.4 16.2 15.0 11.3 18.5	27.7 27.4 37.9 35.8 36.5 44.8	19.4 20.8 29.8 28.6 28.7 34.5	8.2 6.7 8.0 7.2 7.8 10.2
	July	149.1 151.9 137.3 137.6 125.6 120.9	114.6 112.6 103.1 97.6 90.3 84.8	2.6 2.7 3.2 2.8 2.6 2.4	2.6 3.2 2.6 3.0 3.1 2.8	29.2 33.3 28.3 34.2 29.6 30.9	127.7 129.2 115.9 117.4 107.1 107.1	21.4 22.7 21.4 20.2 18.6 13.9	15.1 15.5 13.4 12.8 13.6 12.3	12.3 12.1 10.4 10.0 9.6 8.9	2.8 3.4 3.0 2.8 4.0 3.4	30.4 33.4 32.2 31.3 29.4 22.1	24.6 25.2 24.0 23.2 20.0 15.6	5.8 8.2 8.2 8.1 9.4 6.5	66.3 68.5 58.3 62.3 55.0 55.9	49.1 49.3 43.9 41.6 40.0 38.0	17.3 19.3 14.4 20.7 15.0 18.0	37.2 34.4 33.4 31.2 27.6 30.6	28.6 26.1 24.8 22.8 20.6 22.3	8.6 8.3 8.6 8.4 7.0 8.3
2000:	January	104.8 115.1 147.0 135.1 145.3 151.9	76.7 85.9 116.3 104.1 116.0 112.4	1.8 2.5 2.7 2.4 2.5 3.1	1.8 2.2 3.1 2.5 3.2 3.0	24.6 24.5 24.8 26.0 23.6 33.4	92.4 100.4 126.2 115.1 122.0 129.7	12.4 14.7 20.7 20.0 23.2 22.2	10.5 9.1 14.1 14.2 15.1 15.7	6.6 6.7 10.8 10.2 12.0 11.4	3.8 2.5 3.3 4.0 3.1 4.3	16.4 20.4 32.2 31.6 32.3 30.2	12.4 14.9 24.3 24.6 25.2 23.5	3.9 5.5 7.9 6.9 7.1 6.7	50.4 56.5 64.8 56.3 63.1 65.1	38.1 43.9 53.4 43.3 49.8 49.0	12.3 12.6 11.3 13.0 13.2 16.2	27.6 29.1 36.0 33.1 34.8 40.9	19.5 20.5 27.7 26.0 28.9 28.6	8.1 8.6 8.2 7.1 5.9 12.3
	July August September October November December	128.3 141.1 129.1 134.5 119.6 100.6	96.4 108.9 94.9 101.6 86.2 72.2	2.2 2.9 2.3 3.1 2.4 1.8	2.2 3.3 3.3 3.4 3.0 1.8	27.5 26.0 28.6 26.4 28.0 24.8	108.0 119.9 109.1 112.8 103.8 89.4	20.3 21.3 20.0 21.7 15.7 11.2	13.9 13.8 13.6 13.6 13.7 9.7	10.2 10.6 9.7 10.8 9.1 7.3	3.8 3.2 3.9 2.8 4.6 2.5	27.7 30.2 27.3 31.5 23.1 15.1	20.9 22.8 20.3 22.1 17.2 10.6	6.8 7.4 7.0 9.4 5.9 4.5	54.5 59.1 56.3 57.3 52.9 46.0	41.5 47.7 40.6 43.6 37.9 33.6	13.0 11.4 15.6 13.7 15.0 12.4	32.2 38.0 32.0 32.1 29.8 29.8	23.8 27.8 24.3 25.2 22.0 20.8	8.4 10.2 7.7 6.9 7.8 9.0
2001:	January February <sup>r</sup> March <sup>p</sup>	114.9 111.8 143.2	84.2 83.4 109.8	1.6 2.3 2.7	2.0 2.2 3.4	27.1 23.8 27.3	103.0 99.4 124.0	11.8 12.4 19.2	8.6 10.5 12.0	6.5 6.2 8.6	2.1 4.3 3.4	17.0 18.4 27.2	12.6 13.3 22.0	4.3 5.1 5.3	56.3 54.3 66.3	42.2 42.0 50.6	14.1 12.3 15.7	33.0 28.6 37.6	22.9 21.9 28.6	10.1 6.7 9.0
Year to	date: 2000 <sup>2</sup> 2001 <sup>2</sup>	368.6 370.6	279.5 277.8	7.0 6.7	7.1 7.6	74.9 78.5	320.6 327.2	48.0 43.4	34.0 31.3	24.4 21.5	9.6 9.8	69.2 62.7	51.7 47.9	17.5 14.8	171.7 176.9	135.5 134.8	36.2 42.1	93.7 99.8	67.9 73.7	25.9 26.1

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				ıctures h—					In stru with	ctures 1—		In stru wit	ctures h—		In stru wit	ictures h—			uctures h—
		Total	1 unit	2 units	3 and 4 units	5 units or more	Inside MSAs <sup>1</sup>	Outside MSAs <sup>1</sup>	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
MONTH	HLY DATA—Con.																			
Seasor Annua	nally Adjusted al Rate																			
1998:	January February March April May June	1,555 1,647 1,605 1,547 1,554 1,551	1,158 1,191 1,162 1,157 1,165 1,148	7 7 5 6	71 77 71 57 66 73	326 379 372 333 323 330	(NA) (NA) (NA) (NA) (NA) (NA)	(NA) (NA) (NA) (NA) (NA) (NA)	173 170 149 140 142 155	132 142 126 118 113 122	41 28 23 22 29 33	336 373 316 304 321 314	261 268 234 239 244 234	75 105 82 65 77 80	655 703 747 690 723 687	485 498 511 502 522 505	170 205 236 188 201 182	391 401 393 413 368 395	280 283 291 298 286 287	111 118 102 115 82 108
	July August September October November December	1,610 1,654 1,577 1,719 1,672 1,742	1,181 1,196 1,187 1,217 1,248 1,317	7 6 7 5	76 72 88 70 59 75	353 386 322 432 365 350	(NA) (NA) (NA) (NA) (NA) (NA)	(NA) (NA) (NA) (NA) (NA) (NA)	158 157 162 174 174 179	118 124 123 123 130 137	40 33 39 51 44 42	313 309 319 338 330 408	237 237 241 255 267 302	76 72 78 83 63 106	735 790 708 789 717 750	527 544 529 536 541 573	208 246 179 253 176 177	404 398 388 418 451 405	299 291 294 303 310 305	105 107 94 115 141 100
1999:	January	1,745 1,748 1,681 1,595 1,639 1,696	1,269 1,308 1,255 1,223 1,253 1,266	6 6 6 6	79 69 65 65 60 63	397 371 361 307 326 367	(NA) (NA) (NA) (NA) (NA) (NA)	(NA) (NA) (NA) (NA) (NA) (NA)	167 184 170 165 161 174	132 152 129 128 131 125	35 32 41 37 30 49	323 354 354 344 344 340	259 277 266 258 253 256	64 77 88 86 91 84	806 809 748 695 716 755	561 572 554 536 555 553	245 237 194 159 161 202	449 401 409 391 418 427	317 307 306 301 314 332	132 94 103 90 104 95
	July	1,673 1,658 1,553 1,636 1,678 1,683	1,263 1,233 1,200 1,204 1,238 1,266	6666	64 66 65 62 68	346 359 288 370 372 349	(NA) (NA) (NA) (NA) (NA) (NA)	(NA) (NA) (NA) (NA) (NA) (NA)	161 162 153 145 171 174	127 127 118 115 123 128	34 35 35 30 48 46	335 344 343 342 372 347	256 262 263 264 269 274	79 82 80 78 103 73	769 760 681 765 742 751	561 552 530 538 551 540	208 208 151 227 191 211	408 392 376 384 393 411	319 292 289 287 295 324	89 100 87 97 98 87
2000:	January February March. April May June	1,762 1,661 1,597 1,559 1,511 1,528	1,317 1,223 1,238 1,164 1,150 1,127	6 6 5 6	55 57 58 58 58 52 51	380 371 291 337 299 340	(NA) (NA) (NA) (NA) (NA) (NA)	(NA) (NA) (NA) (NA) (NA) (NA)	195 162 164 162 153 150	133 124 127 114 116 106	62 38 37 48 37 44	378 360 364 342 310 311	308 264 272 252 231 224	70 96 92 90 79 87	751 732 679 664 683 675	563 549 549 505 516 514	188 183 130 159 167 161	438 407 390 391 365 392	313 286 290 293 287 283	125 121 100 98 78 109
	July	1,511 1,486 1,518 1,546 1,598 1,507	1,117 1,140 1,157 1,191 1,183 1,158	6 6 6	55 66 55 66 67 63	339 280 296 289 348 296	(NA) (NA) (NA) (NA) (NA) (NA)	(NA) (NA) (NA) (NA) (NA) (NA)	156 140 159 152 168 145	112 109 113 119 116 112	44 31 46 33 52 33	316 300 311 327 294 263	227 229 230 238 235 202	89 71 81 89 59 61	666 644 669 680 723 667	504 508 512 534 523 521	162 136 157 146 200 146	373 402 379 387 413 432	274 294 302 300 309 323	99 108 77 87 104 109
2001:	January February <sup>r</sup> March <sup>p</sup>	1,724 1,675 1,615	1,287 1,239 1,203	1 6	57 58 72	380 368 340	(NA) (NA) (NA)	(NA) (NA) (NA)	148 192 146	119 120 105	29 72 41	343 329 316	283 248 248	60 81 68	759 737 728	554 547 534	205 190 194	474 417 425	331 324 316	143 93 109
	GE RELATIVE DARD ERRORS <sup>3</sup>																			
Monthly	(percent) /(percent) date(percent)	(Z) 1 (Z)	(Z) (Z) (Z)	3 5 2	3 4 4	(Z) 2 (Z)	(Z) (Z) (Z)	3 4 2	1 2 2	1 2 2	2 5 3	1 2 1	1 1 1	3 5 3	1 1 1	1 1 1	1 3 1	1 1 1	1 1 1	(Z) 1 2

NA Not available.

PPreliminary.

'Revised. Z Less than 0.5 percent.

<sup>&</sup>lt;sup>1</sup>Metropolitan statistical areas.

<sup>2</sup>Reflects revisions not distributed to months.

<sup>3</sup>Average 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	neast			Mid	west			So	uth			W	'est	
Authorized, but not started		In str	uctures v	vith—		In str	uctures w	vith—		In str	uctures w	vith—		In str	uctures w	vith—		In st	ructures v	with—
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																				
16,000-Place Series																				
1981	145.5 167.8 178.0 192.5	60.1 66.9 68.9 66.2	10.7 11.6 13.0 10.2	74.7 89.3 96.1 116.1	23.3 19.4 21.9 23.2	11.5 9.4 12.6 10.8	0.9 1.0 1.1 1.2	10.8 9.0 8.2 11.2	10.0 10.4 12.2 14.0	5.0 4.5 5.2 5.1	1.7 1.7 1.8 1.5	3.2 4.2 5.1 7.5	77.5 100.3 104.2 109.4	29.8 38.5 33.6 34.5	4.9 5.9 6.8 4.8	42.8 55.9 63.8 70.1	34.7 37.7 39.8 45.8	13.8 14.5 17.4 15.7	3.1 2.9 3.3 2.7	17.9 20.2 19.0 27.4
17,000-Place Series																				
1985 1986 1987 1988 1989 1990 1991 1992 1993	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	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	12.4 12.4 3.2 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	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	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 1996 1997 1998 1999 2000 <sup>r</sup>	142.2 126.4 111.1 137.1 138.9 132.2	80.1 67.5 63.6 79.5 79.3 79.0	4.5 4.8 3.7 3.1 3.9 4.2	57.6 54.2 43.8 54.5 55.7 49.1	18.3 16.0 11.3 16.0 15.7 16.0	13.5 9.0 7.1 10.2 9.0 7.9	0.5 0.6 0.4 0.5 0.6 0.9	4.3 6.4 3.8 5.3 6.1 7.3	18.7 16.6 14.1 18.2 16.5 19.0	12.8 10.6 9.2 11.8 11.4 12.9	1.4 1.7 1.3 1.1 1.2 1.1	4.5 4.2 3.6 5.3 3.9 5.0	71.6 68.1 58.7 75.9 79.3 67.3	36.7 32.3 32.0 41.4 40.5 40.3	1.3 1.3 1.2 0.8 1.2 1.1	33.6 34.4 25.5 33.7 37.5 25.9	33.5 25.8 26.9 27.1 27.4 29.9	17.1 15.5 15.2 16.2 18.4 17.8	1.2 1.2 0.8 0.7 1.0 1.1	15.2 9.2 10.8 10.2 8.1 11.0
END OF MONTH																				
2000: January February March April May June	137.3 132.4 150.9 143.6 136.4 144.4	79.3 80.2 93.6 87.5 88.5 90.2	3.0 3.1 3.3 4.0 5.9 6.4	55.0 49.0 54.0 52.1 42.0 47.8	17.3 15.9 17.3 19.1 18.6 20.4	9.4 9.8 11.3 11.9 11.4 11.8	0.5 0.5 0.5 0.7 1.0 1.1	7.5 5.6 5.5 6.4 6.1 7.4	16.3 14.1 22.3 22.1 20.2 23.0	11.1 11.2 16.3 15.6 15.5 16.4	0.9 0.9 1.0 1.3 1.8 2.1	4.3 1.9 5.0 5.2 2.8 4.5	75.8 76.3 80.1 76.2 72.0 69.1	41.2 42.8 48.4 44.9 44.0 41.7	0.9 1.0 1.1 1.2 1.8 1.9	33.7 32.4 30.7 30.1 26.2 25.5	27.9 26.1 31.2 26.2 25.6 31.9	17.7 16.3 17.7 15.0 17.5 20.2	0.8 0.7 0.7 0.9 1.2 1.3	9.5 9.0 12.8 10.3 6.9 10.4
July	137.8 137.1 134.6 129.3 131.1 132.2	86.0 87.0 82.1 81.0 82.3 79.0	4.6 4.5 4.6 4.3 3.7 4.2	47.3 45.7 47.8 44.0 45.1 49.1	18.7 17.8 16.9 15.7 17.4 16.0	11.7 11.4 9.5 9.9 9.4 7.9	0.8 0.8 0.9 0.7 0.6 0.9	6.2 5.6 6.5 5.1 7.4 7.3	20.9 20.0 19.9 19.0 18.8 19.0	14.9 14.4 13.6 12.6 13.8 12.9	1.5 1.4 1.3 1.2 1.1	4.4 4.2 5.0 5.2 3.8 5.0	70.5 68.9 70.5 65.0 67.0 67.3	42.1 42.1 40.4 38.2 39.7 40.3	1.2 1.2 1.4 1.4 1.2 1.1	27.1 25.6 28.7 25.4 26.1 25.9	27.7 30.5 27.3 29.6 27.9 29.9	17.3 19.1 18.7 20.3 19.4 17.8	0.9 1.1 1.0 1.0 0.8 1.1	9.5 10.2 7.6 8.3 7.7 11.0
2001: January <sup>r</sup> February <sup>r</sup> March <sup>p</sup>	142.6 145.7 155.8	83.3 85.4 95.4	3.6 5.0 5.3	55.7 55.3 55.0	17.1 18.5 17.9	8.2 8.7 10.2	0.7 0.9 0.9	8.1 8.9 6.8	19.2 20.1 21.4	12.5 14.5 16.5	0.9 1.2 1.3	5.8 4.4 3.5	71.8 71.0 77.6	41.8 40.7 46.1	1.1 1.7 1.7	29.0 28.6 29.8	34.6 36.1 38.9	20.8 21.5 22.5	0.9 1.2 1.4	12.9 13.4 15.0
AVERAGE RELATIVE STANDARD ERRORS <sup>1</sup> End of period(percent)	3	4	8	5	13	20	19	4	8	8	12	25	4	4	15	7	6	8	15	9

Preliminary. Revised.

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.

<sup>&</sup>lt;sup>1</sup>Average Relative Standard Errors: Average for the latest 6-month period (January through June or July through December).

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 <sup>1</sup>	Out	side MS/	As <sup>1</sup>	ı	Northeas	t		Midwest			South			West	
	Period		In stru wit	ictures h—		In stru with	ctures 1—		In stru with			In stru with			In stru				ictures h—			ictures h—
		Total <sup>2</sup>	1 unit	5 units or more	Total <sup>2</sup>	1 unit	5 units or more	Total <sup>2</sup>	1 unit	5 units or more	Total <sup>2</sup>	1 unit	5 units or more	Total <sup>2</sup>	1 unit	5 units or more	Total <sup>2</sup>	1 unit	5 units or more	Total <sup>2</sup>	1 unit	5 units or more
ANNUA	AL DATA																					
1982		1,084 1,062 1,703 1,750 1,742 1,805 1,620 1,488 1,376 1,193 1,014 1,200 1,288 1,354 1,457 1,354 1,477 1,617 1,667 1,693	705 663 1,068 1,084 1,072 1,179 1,146 1,081 1,030 1,126 1,198 1,076 1,161 1,271 1,332 1,271	288 320 522 544 576 542 409 348 318 260 138 139 133 224 244 271 296 303 300 295	760 785 1,351 1,415 1,494 1,546 1,372 1,243 1,1243 1,128 947 789 932 1,032 1,183 1,106 1,211 1,350 1,405 1,405	458 452 795 830 882 970 934 874 793 685 648 793 897 958 861 923 1,036 1,1037	236 274 464 491 535 508 385 323 289 233 117 117 242 267 280 280 273	324 2777 352 248 253 248 245 246 225 268 254 248 265 274 248 267 253 267 267	247 211 272 254 190 209 212 207 205 210 193 237 225 241 235 235 235 225	52 46 58 53 41 34 25 29 27 21 22 19 23 29 29 23 20 22	117 117 118 204 252 294 235 178 131 127 126 138 118 137 148 152	84 79 123 158 182 228 204 181 132 104 99 112 116 123 102 111 112 129	25 31 35 55 50 42 37 21 8 11 8 12 12 12 21 21 21	165 149 218 243 240 298 274 263 288 298 329 290 321 330 356 329	110 99 153 167 148 188 203 194 190 193 191 236 251 268 234 254 258 273 297 269	40 38 480 77 91 81 66 62 50 31 42 37 50 46 51 48 45 49	562 591 935 866 782 733 634 575 536 479 414 497 562 639 615 662 670 743 760	363 357 557 528 504 4485 443 409 371 353 438 498 522 485 524 507 574 595	153 189 317 274 240 201 115 109 99 51 50 55 107 119 125 151 155 154	240 205 382 436 468 483 420 404 329 254 288 302 351 361 363 395 396	148 127 230 239 261 255 264 272 226 197 244 261 256 271 278 303 314	69 61 121 175 204 200 148 125 108 91 47 36 33 54 67 79 83 76
	ERLY DATA	1,000	1,202	255	1,040	1,007	270	200	220	22	102	120	20	323	203	40	720	370	140	303	300	70
1997:	1st quarter 2nd quarter 3rd quarter 4th quarter	297 419 400 357	238 325 315 257	51 83 75 86	255 342 328 296	202 260 252 209	47 74 68 78	42 77 72 62	36 65 62 48	4 9 7 8	26 36 40 35	20 31 33 28	5 5 6 6	49 92 88 75	40 74 72 52	6 14 12 16	143 190 177 161	115 143 134 115	26 43 39 43	80 101 96 87	63 77 75 62	15 21 18 22
1998:	1st quarter 2nd quarter 3rd quarter 4th quarter	325 448 445 399	258 360 348 305	57 74 86 86	279 366 369 336	219 287 281 250	52 68 80 79	46 82 76 63	39 73 67 55	5 6 7 6	28 40 41 39	22 34 35 31	5 4 5 7	55 97 92 86	45 83 76 68	7 9 13 15	157 200 201 185	125 158 153 138	29 38 44 44	84 111 111 89	66 85 84 68	16 23 24 20
1999:	1st quarter 2nd quarter 3rd quarter 4th quarter	370 455 453 389	294 377 356 308	68 69 88 74	318 378 381 328	248 307 291 254	64 64 82 69	52 76 73 61	46 70 64 55	4 5 6 5	30 43 46 35	24 38 36 31	5 4 8 4	59 106 99 91	52 90 81 74	5 14 14 15	193 196 197 175	149 159 152 136	41 34 42 36	88 110 111 88	69 91 86 67	17 17 23 19
2000:	1st quarter 2nd quarter 3rd quarter 4th quarter	365 456 412 361	286 366 328 282	73 81 73 69	314 377 344 306	242 294 267 235	68 75 67 64	51 79 69 54	44 72 61 47	5 5 6 5	30 41 43 39	22 34 33 31	7 5 7 6	64 103 89 72	52 88 73 57	11 12 13 13	182 204 176 161	142 161 142 125	38 40 31 33	89 108 104 88	70 83 80 70	17 23 22 16
2001:	1st quarter <sup>p</sup>	349	279	63	303	237	60	46	41	4	27	19	7	62	50	10	172	139	30	89	71	16
	GE RELATIVE DARD ERRORS <sup>3</sup>																					
	(percent) ly(percent)	1 1	1 1	5 5	1	1 1	5 5	4 6	5 6	13 22	6 3	3 4	36 8	3 4	3 4	10 18	2 2	2 2	6 6	1 2	1 1	3 6

PPreliminary. 'Revised.

<sup>&</sup>lt;sup>1</sup>Metropolitan statistical areas.
<sup>2</sup>Includes units started in structures with two to four units.
<sup>3</sup>Average 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. Seasonal Indexes Used to Adjust Housing Units Started

				In structu	es with—				All	units	
Period	United States		1 u	ınit							
	implicit index <sup>1</sup>	North- east	Midwest	South	West	2 to 4 units	5 units or more	North- east	Midwest	South	West
2000											
December	77.3	83.0	66.1	75.6	73.6	79.0	93.7	82.9	68.4	80.4	78.2
2001											
January <sup>r</sup> . February <sup>r</sup> . March <sup>p</sup> .	76.3 79.3 100.6	59.8 61.7 92.4	55.9 61.5 93.2	84.8 89.1 109.1	83.3 81.6 108.1	67.6 71.3 100.7	79.8 79.4 88.4	61.4 62.8 93.8	51.6 56.8 91.7	85.6 87.9 105.8	84.1 80.3 102.6

PPreliminary. Revised.

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

Table 6. Seasonal Indexes Used to Adjust Housing Units Authorized in Permit-Issuing Places

				In structui	res with-				All	units	
Period	United States		1 u	ınit							
	implicit index <sup>1</sup>	North- east	Midwest	South	West	2 to 4 units	5 units or more	North- east	Midwest	South	West
2000											
December	80.1	77.8	63.1	77.3	77.0	82.4	100.5	80.4	69.1	82.7	82.5
2001											
January February <sup>r</sup> March <sup>p</sup>	79.9 80.0 106.3	65.5 62.0 98.3	53.6 64.5 106.3	91.3 92.2 113.7	82.9 81.1 108.8	75.7 79.0 101.2	85.5 77.5 96.3	69.4 65.7 99.8	59.2 67.2 104.1	88.6 88.7 110.0	83.2 82.5 107.1

PPreliminary. Revised.

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

<sup>&</sup>lt;sup>1</sup>The 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.

<sup>&</sup>lt;sup>1</sup>The 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.

# Supplement 1. Total Time From Authorization of Construction to Start of Private Residential Buildings

This supplement contains annual statistics on the length of time from authorization of construction to start of new private residential buildings in permit-issuing places. Data are obtained from the U.S. Census Bureau's Survey of Construction.

For the purpose of this survey, a housing unit is considered authorized when a building permit is issued for construction of the unit. A housing unit is considered started when excavation begins for the footings or foundation. In a multifamily building, all housing units are defined as being started when excavation for the building has begun.

Table S1-1 shows the estimated average number of months it takes to start construction on a residential building once the permit has been issued. Table S1-2 shows a percentage distribution for 2000 of buildings started by the number of months from authorization. Data for Tables S1-1 and S1-2 are shown for the United States and the four census regions by the number of housing units in the building.

Since the Survey of Construction is designed to collect data on a monthly basis, it can only be determined in what month a building was authorized or started rather than the precise day. For example, buildings started on August 1 or August 31 would be counted as starting in August. Because of this, it is assumed for this supplement that a building authorized and started in the same month

was started immediately after the permit was issued. Buildings started in the first month after authorization took the full month to begin; those started in the second month after authorization took 2 months; those started in the third month after authorization took 3 months, and so on.

These estimates 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. Estimates of the standard errors have been computed from the sample data. They are presented in the tables in the form of relative standard errors. The relative standard error equals the standard error divided by the estimated value to which it refers. The average relative standard errors shown in Table S1-1 are averages of the estimated relative standard errors for the most recent 2 years. The relative standard errors of estimated percentages in Table S1-2 are shown in Table S1-3. Where estimates involve small numbers of units, the relative standard errors may be very large, indicating that extra care should be taken when interpreting the results. For a more detailed description of sampling variability, see the appendix to Current Construction Reports, C20/01-1.

Table S1-1. Average Number of Months From Authorization to Start of New Buildings Started by Location and Type of Structure

	Un	ited Sta	tes	1	Northeas	st		Midwest	:		South			West	
Year	1 unit	2 to 4 units	5 units or more	1 unit	2 to 4 units	5 units or more	1 unit	2 to 4 units	5 units or more	1 unit	2 to 4 units	5 units or more	1 unit	2 to 4 units	5 units or more
1990	0.8	1.5	2.2	1.4	2.7	3.7	0.4	0.5	1.1	0.9	2.0	2.7	0.9	1.6	2.0
1991	0.8	1.5	1.8	1.3	2.1	3.2	0.4	0.9	1.0	0.9	0.8	2.2	0.9	1.9	2.0
1992	0.8	0.9	2.0	1.3	1.5	2.4	0.4	0.5	1.6	0.8	1.0	2.1	0.9	0.8	2.2
1993	0.8	1.2	1.6	1.3	2.6	1.9	0.5	0.7	0.8	0.9	0.9	1.9	0.7	1.1	1.5
1994	0.7	1.1	1.8	1.2	1.7	2.4	0.4	0.7	1.1	0.9	0.8	2.2	0.6	1.0	1.5
1995	0.7	1.1	1.6	1.0	2.2	2.2	0.5	0.7	0.4	0.8	0.7	2.0	0.5	1.0	1.8
1996	0.7	1.3	1.8	1.0	1.8	1.2	0.6	0.5	1.3	0.9	1.0	2.3	0.6	1.2	1.4
1997	0.7	0.8	1.9	0.9	1.2	2.2	0.5	0.6	0.7	0.8	0.8	2.7	0.5	0.9	0.9
1998	0.6	1.0	1.5	0.7	1.0	1.0	0.5	0.6	0.8	0.8	1.3	2.0	0.5	0.8	1.2
1999	0.7	1.1	1.8	0.8	1.6	1.1	0.5	0.5	1.4	0.8	0.9	2.3	0.5	1.1	1.3
2000	0.7	1.4	1.7	1.1	1.8	1.4	0.5	0.7	0.8	0.8	1.7	2.4	0.6	1.3	1.1
Average relative standard errors (percent)	3	18	5	17	7	20	9	(A)	21	4	11	7	7	15	6

A Relative standard error of 100 percent or more. The estimate should be used with caution because a high standard error inidcates lack of precision in the estimate.

Table S1-2. Percentage Distribution of New Buildings Started in 2000 by Number of Months From Authorization and by Location and Type of Structure

[Percents may not add to 100 because of rounding]

	Un	ited Sta	tes	1	Northeas	t		Midwest			South			West	
Period	1 unit	2 to 4 units	5 units or more	1 unit	2 to 4 units	5 units or more	1 unit	2 to 4 units	5 units or more	1 unit	2 to 4 units	5 units or more	1 unit	2 to 4 units	5 units or more
Prior to authorization or same month															
as authorization	53	44	35	49	25	34	60	64	56	48	37	22	59	49	45
1 month	34	30	26	33	39	44	32	25	19	37	31	24	30	23	30
2 months	7	12	14	10	15	7	5	6	10	9	15	19	6	13	10
3 months	2	3	9	2	5	2	2	2	9	2	3	12	2	4	5
4 months	1	3	5	2	3	4	(Z)	1	1	1	5	7	1	2	4
5 or 6 months	1	4	6	1	6	5	(Z)	1	2	1	4	9	1	5	4
7 months or more	1	4	4	3	6	3	1	2	2	1	4	6	1	4	3

Z Less than 0.5 percent.

Table S1-3. Relative Standard Errors of Percentage Distribution of New Buildings Started in 2000 by Number of Months From Authorization and by Location and Type of Structure

	Ur	ited Sta	tes	١	Vortheas	st		Midwest			South			West	
Period	1 unit	2 to 4 units	5 units or more	1 unit	2 to 4 units	5 units or more	1 unit	2 to 4 units	5 units or more	1 unit	2 to 4 units	5 units or more	1 unit	2 to 4 units	5 units or more
Prior to authorization or same month															
as authorization	1	6	6	4	5	26	3	8	10	2	16	12	3	11	5
1 month	2	11	6	6	8	25	7	13	20	3	30	7	5	17	4
2 months	4	12	9	10	18	39	11	44	26	6	17	13	8	20	8
3 months	5	20	12	20	34	29	19	49	31	6	32	15	10	53	10
4 months	9	15	10	28	26	32	24	23	61	11	24	12	19	47	14
5 or 6 months	9	37	17	32	56	41	32	(X)	61	12	58	22	18	72	16
7 months or more	12	26	11	54	62	48	21	(A)	29	11	23	15	12	35	16

A Relative standard error of 100 percent or more. The estimate should be used with caution because a high standard error indicates lack of precision in the estimate.

X Not applicable.

# Supplement 2. Total Time From Start of Construction to Completion of Private Residential Buildings

This supplement contains annual statistics on the length of time from start of construction to completion of new private residential buildings. Data are obtained from the U.S. Census Bureau's Survey of Construction.

For the purpose of this survey, a housing unit is considered started when excavation begins for the footings or foundation. In a multifamily building, all housing units are defined as being started when excavation for the building has begun. One-family houses are classified as completed either when all finish flooring has been installed (or carpeting, if used in place of finish flooring) or when occupied. All of the units in a multifamily building are considered as completed when 50 percent or more of the units are occupied or available for occupancy.

Table S2-1 shows the estimated average number of months it takes to build a one-family house in the United States, by the four census regions, and by purpose of construction. By "purpose of construction," we mean that one-family houses are classified as either built for sale (houses built where the house and lot are both to be included in the sales transaction), contractor-built (houses built on the owner's land under the supervision of a single general contractor), or owner-built (houses built on the owner's land under the supervision of the owner). The United States and regional data include a small number of houses built for rent.

Table S2-2 shows the estimated average number of months it takes to build multifamily buildings by the number of units in the building; data are shown for buildings with five units or more for the United States and the four census regions in Table S2-3. Table S2-4 shows a percentage distribution for 2000 of buildings completed by the number of months from start and the number of units in the building.

Since the Survey of Construction is designed to collect data on a monthly basis, it can only be determined in what month a building was started or completed rather than the precise day. For example, buildings started on June 1 or June 30 would both be counted as starting in June. Because of this, it is assumed for this supplement that a building started and completed in the same month took the full month to build. Buildings completed in the first month after start took 1.5 months; those completed in the second month after start took 2.5 months; those completed in the third month after start took 3.0 months; those completed in the fourth month after start took 4.0 months, and so on.

These estimates 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. Estimates of the standard errors have been computed from the sample data. They are presented in the tables in the form of relative standard errors. The relative standard error equals the standard error divided by the estimated value to which it refers. The average relative standard errors shown in Tables S2-1, S2-2, and S2-3 are averages of the estimated relative standard errors for the most recent 2 years. The relative standard errors of estimated percentages in Table S2-4 are shown in Table S2-5. Where estimates involve small numbers of units, the relative standard errors may be very large, indicating that extra care should be taken when interpreting the results. For a more detailed description of sampling variability, see the appendix to Current Construction Reports, C20/01-1.

Table S2-1. Average Number of Months From Start to Completion of New One-Family Houses Completed by Region and Purpose of Construction

			Reç	gion		Con	struction pur	pose
Year	United States	Northeast	Midwest	South	West	Built for sale	Contractor built	Owner built
1990	6.4	9.3	5.6	5.7	6.9	5.9	5.3	10.3
1991	6.3	8.9	5.6	5.5	6.9	5.6	5.1	10.2
1992	5.8	7.6	5.6	5.1	6.1	5.0	5.0	9.5
1993	5.6	7.2	5.5	5.2	6.0	4.9	5.4	9.0
1994	5.6	7.1	5.7	5.3	5.6	4.9	5.3	9.1
1995	5.9	7.4	6.0	5.4	6.0	5.2	5.8	9.5
1996	6.0	8.2	6.1	5.6	5.6	5.2	5.8	9.9
1997	6.0	7.3	6.2	5.6	5.8	5.2	5.9	9.8
1998	6.0	7.1	6.2	5.5	6.1	5.4	6.0	9.5
1999	6.2	7.1	7.0	5.7	6.3	5.6	6.4	9.6
2000	6.3	7.6	6.5	5.9	6.1	5.6	6.6	9.9
Average relative standard errors(percent).	1	3	3	2	2	1	3	4

Table S2-2. Average Number of Months From Start to Completion of New Multifamily Buildings Completed by Number of Units in the Building

Year	Puildings		е				
	Buildings – with 2 to 4 units	Total	5 to 9 units	10 to 19 units	20 to 29 units	30 to 49 units	50 units or more
1990	7.6	9.4	9.2	9.3	9.1	11.4	15.6
1991	8.5	9.7	9.2	10.4	8.8	10.5	14.2
1992	7.1	9.1	8.6	8.8	11.0	9.7	15.2
1993	7.4	8.6	7.6	9.5	9.3	11.0	14.7
1994	7.3	9.3	8.2	11.0	8.8	9.8	13.3
1995	6.8	9.1	8.6	9.5	9.4	9.8	12.9
1996	7.5	8.9	8.6	8.9	10.4	9.8	10.8
1997	7.5	9.2	8.5	9.3	10.1	11.2	12.7
1998	7.7	9.6	8.6	9.6	10.9	10.0	12.7
1999	9.0	10.1	9.3	10.1	10.9	11.1	13.5
2000	8.5	10.4	9.7	10.6	11.0	10.6	15.1
Average relative standard errors $\ldots\ldots$ .(percent).	5	2	2	3	3	6	3

Table S2-3. Average Number of Months From Start to Completion of New Buildings Completed With 5 Units or More by Region

Voor		Region							
Year	United States	Northeast	Midwest	South	West				
1990	9.4	11.4	8.2	7.9	10.7				
1991	9.7	12.8	8.0	8.4	11.3				
1992	9.1	20.2	6.8	7.7	10.4				
1993	8.6	8.0	8.0	7.8	10.1				
1994	9.3	26.6	7.9	7.6	8.6				
1995	9.1	19.9	8.2	8.4	8.9				
1996	8.9	8.9	8.1	9.1	9.1				
1997	9.2	8.7	8.8	9.1	9.6				
1998	9.6	9.7	9.2	9.2	10.6				
1999	10.1	11.4	9.1	10.0	11.0				
2000	10.4	9.4	9.9	10.6	11.0				
Average relative standard errors(percent)	2	10	7	3	2				

Table S2-4. Percentage Distribution of New Buildings Completed in 2000 by Number of Months From Start and by Number of Units in the Building

[Percents may not add to 100 because of rounding]

Period		Puildings	Buildings with 5 units or more						
	Buildings with 1 unit	Buildings with 2 to 4 units	Total	5 to 9 units	10 to 19 units	20 to 29 units	30 to 49 units	50 units or more	
2 months or less 3 months. 4 months. 5 months. 6 months.	6 14 18 17 13	2 4 9 12 14	(Z) 1 2 4 7	1 1 3 5 7	1 1 3 3 10	(Z) (Z) 1 5 5	(Z) 5 (Z) 4 2	(Z) (Z) (Z) (Z) (Z)	
7 months. 8 months. 9 months. 10 months. 11 months. 12 months.	9 6 4 3 2 2	9 10 8 8 6 5	10 11 11 10 8 9	12 12 12 10 8 10	8 11 10 10 7 8	9 10 10 12 9	11 8 11 11 9 7	1 3 2 5 12 8	
13 to 18 months	4 1 1	10 1 1	22 3 1	16 2 (Z)	23 3 1	27 4 (Z)	26 4 (Z)	46 17 4	

Z Less than 0.5 percent.

Table S2-5. Relative Standard Errors of Percentage Distribution of New Buildings Completed in 2000 by Number of Months From Start and by Number of Units in the Building

	Buildings with 1 unit		Buildings with 5 units or more						
			Total	5 to 9 units	10 to 19 units	20 to 29 units	30 to 49 units	50 units or more	
2 months or less 3 months. 4 months. 5 months. 6 months.	6 4 2 2 3	36 26 19 27 20	39 27 13 12 13	42 34 17 19	56 47 24 18 20	11 31 15 19 16	(X) 70 62 42 29	(X) (X) (X) 34 54	
7 months. 8 months. 9 months. 10 months. 11 months. 12 months.	4 4 4 6 7 7	21 19 17 15 24 20	8 8 7 9 7 8	12 16 11 19 12 16	13 12 10 10 11	13 13 18 10 9 11	22 25 14 18 19 19	34 35 47 16 24 21	
13 to 18 months	6 9 11	37 38 48	6 19 17	13 22 (A)	9 20 42	10 39 (A)	13 32 (X)	12 13 94	

A Relative standard error of 100 percent or more. The estimate should be used with caution because a high standard error indicates lack of precision in the estimate.

X Not applicable.