

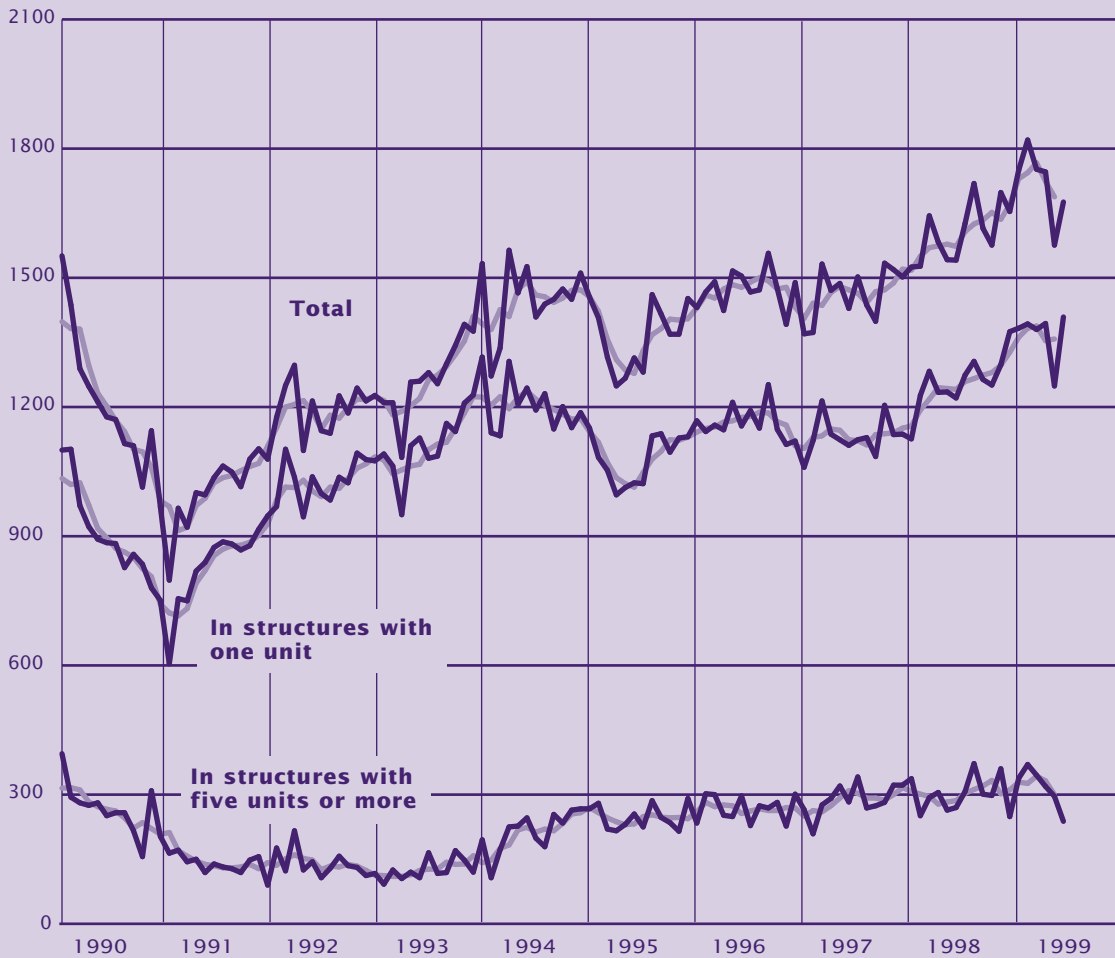
# Housing Starts

Data on manufactured homes no longer appear in this report. All data on manufactured homes will be accessed only through the Internet at: [www.census.gov/const/www/index.html](http://www.census.gov/const/www/index.html). In addition, comprehensive revisions to the estimates of manufactured homes placements, average sales prices, and dealers' inventories will be released next month. All data will be revised back to January 1994. For further information, contact Construction Expenditures Branch, Manufacturing and Construction Division, telephone 301-457-1605.

## New Privately Owned Housing Units Started

Seasonally adjusted annual rate in thousands

— Seasonally adjusted annual rate  
— 4-month moving average



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.  
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 May were at a seasonally adjusted annual rate of 1,676,000. This is 6 ( $\pm 6$ ) percent above the revised April rate of 1,576,000 and 9 ( $\pm 7$ ) percent above the May 1998 figure of 1,541,000.

Single-family housing starts in May 1999 were at a rate of 1,409,000; this is 13 ( $\pm 6$  percent) above the April figure of 1,249,000. The May rate for units in buildings with five units or more was 238,000. The May rate for units in buildings with two to four units was 29,000.

During the first 5 months of this year, 670,600 housing units were started compared with 613,100 units for the same period in 1998. This is an increase of 9 ( $\pm 3$ ) percent.

New privately owned housing construction was authorized in May in the 19,000 permit-issuing places at a seasonally adjusted annual rate of 1,586,000 units; this is 1 ( $\pm 1$ ) percent above the revised April rate of 1,572,000 and 2 ( $\pm 1$ ) percent above the May 1998 rate of 1,549,000.

Single-family authorizations in May 1999 were at a rate of 1,233,000; this is 2 ( $\pm 1$  percent) above the April figure of 1,214,000. Authorizations of units in buildings with five units or more were at a rate of 293,000 in May; This is 1 percent below the April figure of 296,000. The May rate of permit-authorized units in buildings with two to four units was 60,000.

During the first 5 months of this year, 664,600 housing units were authorized by permits in the 19,000 places compared with 624,700 units for the same period in 1998. This is an increase of 6 ( $\pm 1$ ) 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 ( $\pm 3$ ) 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 April 1999 Current Construction Reports, C20/99-4, 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  $\pm 1$  percent.

Housing starts and building permits data do not include manufactured home units. Manufactured home statistics are available through the Internet at: [www.census.gov/const/www/index.html](http://www.census.gov/const/www/index.html). For further information on these data, contact Construction Expenditures Branch Manufacturing and Construction Division, telephone 301-457-1605.

## 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				
	99-4	99-1	98-10	98-7	98-4
New privately owned housing units started, by purpose of construction (quarterly and annual data).....	99-4	99-1	98-10	98-7	98-4
Total time from start of construction to completion of private residential buildings (annual data) .....	99-3	98-3	97-3	96-3	95-3
Total time from authorization of construction to start for private residential buildings (annual data) .....	99-3	98-3	97-3	96-3	95-3
New privately owned housing units, by intended use and design at time of start (annual data) .....	99-2	98-2	97-2	96-2	95-2

**Table 1. New Privately Owned Housing Units Started**

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

Period	Total	In structures with—				Inside MSAs <sup>1</sup>	Outside MSAs <sup>1</sup>	North-east	Midwest	South	West
		1 unit	2 units	3 and 4 units	5 units or more						
<b>ANNUAL DATA</b>											
1989	1,376.1	1,003.3	19.9	35.3	317.6	1,128.1	248.0	178.5	265.8	536.2	395.7
1990	1,192.7	894.8	16.1	21.4	260.4	946.9	245.7	131.3	253.2	479.3	328.9
1991	1,013.9	840.4	15.5	20.1	137.9	789.2	224.7	112.9	233.0	414.1	254.0
1992	1,199.7	1,029.9	12.4	18.3	139.0	931.5	268.2	126.7	287.8	496.9	288.3
1993	1,287.6	1,125.7	11.1	18.3	132.6	1,031.9	255.8	126.5	297.7	561.8	301.7
1994	1,457.0	1,198.4	14.8	20.2	223.5	1,183.1	273.9	138.2	328.9	639.1	350.8
1995	1,354.1	1,076.2	14.3	19.4	244.1	1,106.4	247.6	117.7	290.1	615.0	331.3
1996	1,476.8	1,160.9	16.4	28.8	270.8	1,211.4	265.5	132.1	321.5	661.9	361.4
1997	1,474.0	1,133.7	18.1	26.4	295.8	1,221.3	252.7	136.8	303.6	670.3	363.3
1998	1,616.9	1,271.4	15.7	26.9	302.9	1,349.9	267.0	148.5	330.5	743.0	394.9
<b>MONTHLY DATA</b>											
<b>Not Seasonally Adjusted</b>											
1998: January	91.2	72.3	0.8	1.5	16.5	78.1	13.1	8.0	14.4	42.9	25.9
February	101.1	78.9	0.8	3.2	18.1	87.0	14.0	9.4	17.3	51.2	23.2
March	132.6	107.2	1.6	1.9	21.9	113.6	19.0	11.0	23.3	63.2	35.0
April	144.9	117.3	1.8	2.2	23.7	119.0	25.9	11.9	33.2	65.4	34.4
May	143.3	114.4	1.9	2.6	24.3	117.6	25.7	14.1	29.7	64.5	34.9
June	159.6	128.7	1.7	3.0	26.1	129.2	30.4	14.0	33.7	70.4	41.5
July	156.0	120.5	1.5	2.3	31.7	130.2	25.7	15.3	31.2	70.6	38.8
August	147.5	115.1	1.4	3.2	27.8	122.3	25.2	12.9	31.3	67.7	35.5
September	141.5	112.4	1.0	1.3	26.9	116.7	24.8	13.1	29.8	62.3	36.3
October	155.5	113.5	1.2	3.0	37.7	131.6	23.9	16.0	36.4	71.9	31.3
November	124.2	101.3	0.9	1.9	20.1	102.8	21.4	12.0	25.1	58.8	28.3
December	119.6	89.8	0.9	0.8	28.0	101.8	17.8	10.7	25.0	54.0	29.9
1999: January	108.0	82.1	0.7	2.0	23.3	95.6	12.4	7.9	13.5	57.3	29.2
February	112.2	89.1	0.7	0.8	21.6	97.4	14.8	9.6	16.5	62.1	24.1
March <sup>f</sup>	149.3	122.9	1.4	1.4	23.6	124.9	24.5	12.1	29.2	73.1	34.9
April <sup>f</sup>	145.9	117.4	1.7	1.2	25.6	123.3	22.6	12.0	31.0	65.5	37.4
May <sup>p</sup>	155.3	131.1	1.2	1.4	21.5	130.5	24.8	14.8	34.8	67.3	38.3
Year to date: 1998	613.1	490.1	7.0	11.4	104.6	515.3	97.8	54.4	118.0	287.3	153.4
1999	670.6	542.5	5.8	6.8	115.5	571.6	99.1	56.4	125.0	325.4	163.9
<b>Seasonally Adjusted Annual Rate</b>											
1998: January	1,527	1,227	49		251	(NA)	(NA)	158	330	663	376
February	1,644	1,283	68		293	(NA)	(NA)	209	367	721	347
March	1,583	1,234	44		305	(NA)	(NA)	140	320	728	395
April	1,542	1,235	43		264	(NA)	(NA)	127	345	688	382
May	1,541	1,221	50		270	(NA)	(NA)	151	299	708	383
June	1,626	1,274	45		307	(NA)	(NA)	139	315	756	416
July	1,719	1,306	41		372	(NA)	(NA)	154	314	818	433
August	1,615	1,264	50		301	(NA)	(NA)	142	316	770	387
September	1,576	1,251	27		298	(NA)	(NA)	135	316	717	408
October	1,698	1,298	40		360	(NA)	(NA)	155	350	835	358
November	1,654	1,375	30		249	(NA)	(NA)	153	324	759	418
December	1,750	1,383	29		338	(NA)	(NA)	157	416	747	430
1999: January	1,820	1,393	57		370	(NA)	(NA)	150	335	901	434
February	1,752	1,380	27		345	(NA)	(NA)	206	342	842	362
March <sup>f</sup>	1,746	1,394	33		319	(NA)	(NA)	147	381	821	397
April <sup>f</sup>	1,576	1,249	31		296	(NA)	(NA)	136	321	713	406
May <sup>p</sup>	1,676	1,409	29		238	(NA)	(NA)	158	355	744	419
<b>AVERAGE RELATIVE STANDARD ERRORS<sup>2</sup></b>											
Annual	1	1	7	11	3	1	3	3	2	1	1
Monthly	3	2	15	20	9	3	8	7	7	4	3
Year to date	1	1	9	15	5	1	4	7	3	2	1

NA Not available. <sup>p</sup>Preliminary. <sup>f</sup>Revised.

<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]

Period	United States							Northeast			Midwest			South			West		
	Total	In structures with—				Inside MSAs <sup>1</sup>	Outside MSAs <sup>1</sup>	Total	In structures with—		Total	In structures with—		Total	In structures with—		Total	In structures with—	
		1 unit	2 units	3 and 4 units	5 units or more				1 unit	2 units or more		1 unit	2 units or more		1 unit	2 units or more		1 unit	2 units or more
<b>ANNUAL DATA</b>																			
<b>19,000-Place Series</b>																			
1994	1,371.6	1,068.5	31.4	30.8	241.0	1,144.1	227.5	138.5	119.1	19.4	305.2	233.6	71.6	585.5	453.0	132.5	342.4	262.8	79.7
1995	1,332.5	997.3	32.2	31.5	271.5	1,116.8	215.8	124.2	104.5	19.7	296.6	220.5	76.1	583.2	430.3	152.9	328.5	241.9	86.5
1996	1,425.6	1,069.5	33.6	32.2	290.3	1,200.0	225.6	136.9	108.8	28.1	317.8	236.6	81.3	623.4	468.5	155.0	347.4	255.6	91.8
1997	1,441.1	1,062.4	34.9	33.6	310.3	1,220.2	220.9	141.9	111.2	30.7	299.8	220.0	79.8	635.9	464.2	171.7	363.5	267.1	96.5
1998	1,612.3	1,187.6	33.2	36.0	355.5	1,377.9	234.4	159.4	124.1	35.3	327.2	247.8	79.4	724.5	521.9	202.6	401.2	293.8	107.4
<b>MONTHLY DATA</b>																			
<b>Not Seasonally Adjusted</b>																			
1997:	January	88.1	65.8	2.4	1.5	18.5	77.5	9.1	6.5	2.6	13.2	9.2	4.0	43.3	33.6	9.8	22.5	16.4	6.1
	February	94.1	70.3	2.3	1.8	19.7	81.6	9.1	5.8	3.3	15.7	11.4	4.3	44.6	34.3	10.4	24.6	18.8	5.9
	March	120.1	88.7	2.9	2.5	26.0	102.5	11.8	8.7	3.0	24.3	18.0	6.3	55.4	39.7	15.7	28.7	22.3	6.4
	April	137.2	104.4	3.5	3.1	26.2	113.1	12.6	10.4	2.2	32.0	24.3	7.7	61.5	45.0	16.5	31.2	24.8	6.4
	May	131.6	101.3	3.0	2.8	24.6	108.3	12.8	11.0	1.9	29.4	22.9	6.5	55.8	42.3	13.5	33.5	25.1	8.4
	June	133.6	100.9	3.2	3.4	26.2	111.9	14.0	11.0	3.0	29.2	22.3	6.9	57.1	42.4	14.8	33.3	25.2	8.1
	July	133.7	99.8	3.3	3.3	27.2	113.0	13.5	11.1	2.4	27.8	21.6	6.2	58.7	41.8	16.9	33.7	25.3	8.5
	August	126.0	91.8	2.5	2.9	28.7	105.9	12.9	9.8	3.1	28.3	20.0	8.3	53.4	38.9	14.4	31.4	23.1	8.4
	September	134.4	95.6	3.0	3.2	32.7	113.8	12.4	10.1	2.3	28.8	20.7	8.2	57.4	40.0	17.5	35.7	24.8	10.9
	October	135.5	97.5	3.7	3.9	30.4	114.5	12.5	10.7	1.8	29.5	20.7	8.8	58.0	41.4	16.6	35.5	24.8	10.7
	November	100.4	72.5	2.3	2.2	23.3	85.8	14.6	8.1	2.5	21.3	14.8	6.5	44.0	32.0	12.1	24.5	17.7	6.8
	December	106.4	73.9	2.8	2.9	26.8	92.3	14.1	10.7	2.7	20.3	14.1	6.2	46.5	32.9	13.6	28.9	18.9	10.0
1998:	January	96.2	70.1	2.0	2.0	22.1	84.6	9.7	7.0	2.7	14.7	10.9	3.8	46.3	34.4	12.0	25.4	17.8	7.6
	February	107.4	78.1	2.3	2.6	24.4	93.5	13.9	8.9	1.8	19.7	14.3	5.4	51.2	37.5	13.7	27.5	19.1	8.4
	March	140.9	105.1	2.8	3.3	29.9	121.0	12.1	10.2	1.9	26.8	20.4	6.4	68.4	47.7	20.7	33.6	26.8	6.9
	April	146.3	113.6	2.7	2.7	27.3	123.3	13.2	11.4	1.7	31.0	25.2	5.8	63.6	48.0	15.6	38.5	29.0	9.5
	May	138.2	107.3	2.5	2.9	25.5	116.4	13.3	11.2	2.1	30.7	24.4	6.3	62.5	45.9	16.5	31.8	25.8	5.9
	June	153.4	115.8	3.2	4.3	30.1	129.7	16.0	12.8	3.2	31.6	25.2	6.4	65.0	48.6	16.4	40.8	29.2	11.6
	July	149.3	111.2	3.3	3.2	31.7	126.1	15.4	11.9	3.5	29.7	23.4	6.3	66.1	47.7	18.5	38.0	28.2	9.8
	August	144.7	104.4	3.1	3.0	34.1	122.8	14.3	11.1	3.2	28.9	21.8	7.1	67.1	46.5	20.6	34.4	25.1	9.4
	September	141.7	102.5	2.9	3.4	32.9	120.8	14.7	11.0	3.7	30.3	22.1	8.1	62.2	44.0	18.2	34.7	25.4	9.2
	October	149.8	103.8	3.0	3.7	39.3	126.8	15.7	11.1	4.6	32.4	23.6	8.8	65.8	44.0	21.9	35.9	25.1	10.7
	November	119.9	86.6	2.4	2.3	28.6	104.1	13.4	9.8	3.6	24.9	18.9	6.0	51.2	37.2	14.1	30.3	20.7	9.5
	December	124.5	89.0	3.1	2.6	29.8	108.8	12.7	9.5	3.2	26.5	17.6	8.9	55.1	40.6	14.5	30.2	21.3	8.8
1999:	January	105.3	73.7	2.2	2.3	27.1	93.7	11.6	6.6	2.3	13.3	10.3	3.1	55.9	37.6	18.3	27.1	19.2	7.8
	February	113.3	85.8	2.2	2.4	22.9	99.5	13.8	7.6	1.9	18.6	14.6	4.0	58.6	43.1	15.5	26.6	20.5	6.1
	March	152.1	117.7	2.9	3.1	28.4	130.5	14.0	10.4	3.6	31.5	23.9	7.6	69.8	53.9	15.8	36.7	29.4	7.4
	April <sup>1</sup>	149.1	118.3	2.9	3.3	24.6	125.8	15.1	12.4	2.7	33.7	27.0	6.6	65.8	50.8	15.0	34.6	28.1	6.5
	May <sup>P</sup>	141.1	113.1	2.6	2.5	22.9	119.4	14.2	12.1	2.1	32.5	24.9	7.6	59.5	48.0	11.5	34.9	28.2	6.7
Year to date:	1998	624.7	471.2	12.1	13.3	128.2	535.3	89.4	56.7	46.4	121.3	93.4	27.9	291.4	213.8	77.6	155.3	117.7	37.6
	1999 <sup>2</sup>	664.6	511.2	12.8	13.8	126.9	571.8	92.9	61.9	49.7	129.6	100.8	28.8	312.1	234.7	77.4	161.0	126.0	35.0

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]

Period	United States							Northeast			Midwest			South			West		
	Total	In structures with—				Inside MSAs <sup>1</sup>	Outside MSAs <sup>1</sup>	Total	In structures with—		Total	In structures with—		Total	In structures with—		Total	In structures with—	
		1 unit	2 units	3 and 4 units	5 units or more				1 unit	2 units or more		1 unit	2 units or more		1 unit	2 units or more		1 unit	2 units or more
<b>MONTHLY DATA—Con.</b>																			
<b>Seasonally Adjusted Annual Rate</b>																			
1997:	January	1,382	1,046	64	272	(NA)	(NA)	160	121	39	295	215	80	590	458	132	337	252	85
	February	1,445	1,070	65	310	(NA)	(NA)	173	116	57	301	216	85	609	459	150	362	279	83
	March	1,436	1,031	66	339	(NA)	(NA)	153	114	39	300	218	82	647	446	201	336	253	83
	April	1,421	1,054	70	297	(NA)	(NA)	129	105	24	312	228	84	646	466	180	334	255	79
	May	1,414	1,046	65	303	(NA)	(NA)	132	107	25	289	216	73	618	456	162	375	267	108
	June	1,402	1,057	67	278	(NA)	(NA)	141	111	30	301	222	79	624	467	157	336	257	79
	July	1,440	1,050	74	316	(NA)	(NA)	136	109	27	287	214	73	658	459	199	359	268	91
	August	1,449	1,061	65	323	(NA)	(NA)	141	107	34	309	221	88	626	462	164	373	271	102
	September	1,494	1,091	67	336	(NA)	(NA)	138	112	26	304	221	83	654	472	182	398	286	112
	October	1,499	1,098	76	325	(NA)	(NA)	134	114	20	297	218	79	677	485	192	391	281	110
	November	1,469	1,093	62	314	(NA)	(NA)	141	110	31	297	220	77	652	487	165	379	276	103
	December	1,456	1,080	77	299	(NA)	(NA)	149	117	32	307	238	69	621	461	160	379	264	115
1998:	January	1,578	1,165	68	345	(NA)	(NA)	176	134	42	341	259	82	662	486	176	399	286	113
	February	1,661	1,200	77	384	(NA)	(NA)	171	143	28	376	270	106	706	502	204	408	285	123
	March	1,606	1,162	72	372	(NA)	(NA)	151	126	25	318	234	84	750	510	240	387	292	95
	April	1,529	1,155	57	317	(NA)	(NA)	140	119	21	306	240	66	674	498	176	409	298	111
	May	1,549	1,174	64	311	(NA)	(NA)	142	114	28	318	245	73	713	525	188	376	290	86
	June	1,531	1,143	73	315	(NA)	(NA)	151	121	30	307	233	74	680	505	175	393	284	109
	July	1,626	1,191	74	361	(NA)	(NA)	160	119	41	315	237	78	744	530	214	407	305	102
	August	1,670	1,202	72	396	(NA)	(NA)	158	124	34	312	240	72	800	550	250	400	288	112
	September	1,569	1,171	70	328	(NA)	(NA)	159	119	40	320	240	80	708	521	187	382	291	91
	October	1,726	1,210	69	447	(NA)	(NA)	174	122	52	336	254	82	801	534	267	415	300	115
	November	1,688	1,254	63	371	(NA)	(NA)	178	132	46	338	271	67	723	542	181	449	309	140
	December	1,708	1,296	77	335	(NA)	(NA)	177	138	39	399	294	105	733	567	166	399	297	102
1999:	January	1,778	1,279	79	420	(NA)	(NA)	169	133	36	324	257	67	833	564	269	452	325	127
	February	1,738	1,306	72	360	(NA)	(NA)	181	151	30	352	275	77	810	575	235	395	305	90
	March	1,654	1,242	69	343	(NA)	(NA)	163	123	40	356	264	92	744	552	192	391	303	88
	April <sup>f</sup>	1,572	1,214	67	291	(NA)	(NA)	162	128	34	338	256	82	692	532	160	380	298	82
	May <sup>p</sup>	1,586	1,233	60	293	(NA)	(NA)	155	126	29	336	251	85	694	547	147	401	309	92
<b>AVERAGE RELATIVE STANDARD ERRORS<sup>3</sup></b>																			
Annual	(percent)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)
Monthly	(percent)	1	1	4	3	1	3	2	2	3	2	1	4	1	1	1	1	1	1
Year to date	(percent)	(Z)	(Z)	2	5	(Z)	2	2	2	8	1	1	2	1	1	2	1	1	1

NA Not available. <sup>p</sup>Preliminary. <sup>r</sup>Revised. X Not applicable. Z Less than 0.5 percent.

<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]

Authorized, but not started at end of period	United States				Northeast				Midwest				South				West			
	Total	In structures with—			Total	In structures with—			Total	In structures with—			Total	In structures with—			Total	In structures with—		
		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
<b>END OF YEAR</b>																				
<b>16,000-Place Series</b>																				
1979	184.1	77.3	14.4	92.4	32.6	12.3	1.1	19.3	19.6	7.7	2.7	9.2	85.3	32.9	5.1	47.4	46.4	24.4	5.5	16.6
1980	173.6	70.1	15.3	88.2	26.0	12.3	1.2	12.6	17.5	6.8	2.9	7.8	88.5	32.9	6.5	49.1	41.6	18.1	4.8	18.7
1981	145.5	60.1	10.7	74.7	23.3	11.5	0.9	10.8	10.0	5.0	1.7	3.2	77.5	29.8	4.9	42.8	34.7	13.8	3.1	17.9
1982	167.8	66.9	11.6	89.3	19.4	9.4	1.0	9.0	10.4	4.5	1.7	4.2	100.3	38.5	5.9	55.9	37.7	14.5	2.9	20.2
1983	178.0	68.9	13.0	96.1	21.9	12.6	1.1	8.2	12.2	5.2	1.8	5.1	104.2	33.6	6.8	63.8	39.8	17.4	3.3	19.0
1984	192.5	66.2	10.2	116.1	23.2	10.8	1.2	11.2	14.0	5.1	1.5	7.5	109.4	34.5	4.8	70.1	45.8	15.7	2.7	27.4
<b>17,000-Place Series</b>																				
1985	223.3	80.6	13.7	129.0	36.9	19.2	2.1	15.7	20.4	5.8	2.2	12.4	120.6	43.3	5.7	71.6	45.4	12.3	3.8	29.3
1986	205.2	92.8	12.3	100.2	34.4	21.2	2.4	10.8	21.1	6.4	2.3	12.4	91.3	43.5	3.8	43.9	58.4	21.7	3.7	33.0
1987	155.0	79.3	11.1	64.6	36.8	23.3	2.1	11.4	11.9	6.5	2.2	3.2	68.6	33.8	3.5	31.4	37.7	15.7	3.3	18.6
1988	156.4	76.4	9.9	70.1	32.9	20.0	1.9	11.0	15.5	5.9	2.3	7.3	64.0	30.4	2.9	30.7	44.0	20.1	2.7	21.1
1989	173.9	93.1	8.4	72.5	34.1	25.1	1.6	7.4	18.0	7.5	1.8	8.7	73.5	34.3	2.1	37.1	48.3	26.2	2.8	19.2
1990	131.6	75.0	8.5	48.1	25.8	20.0	1.3	4.5	14.2	5.7	2.2	6.3	55.1	27.3	2.1	25.7	36.5	22.0	2.9	11.6
1991	126.3	71.1	4.7	50.6	24.4	17.3	0.7	6.4	16.9	6.4	1.4	9.1	51.3	26.0	1.3	24.0	33.8	21.4	1.4	11.1
1992	108.7	71.9	5.1	31.7	18.6	13.5	0.7	4.5	13.4	8.8	1.7	2.9	49.8	33.3	1.3	15.2	26.9	16.3	1.5	9.1
1993	118.9	72.5	3.7	42.8	22.3	15.4	0.5	6.4	14.3	8.6	1.2	4.5	58.5	35.2	1.0	22.3	23.8	13.2	1.0	9.6
1994	115.6	66.0	3.6	46.1	17.1	12.2	0.4	4.5	13.1	8.3	1.2	3.7	58.1	31.2	1.1	25.8	27.3	14.2	1.0	12.1
<b>19,000-Place Series</b>																				
1995	142.2	80.1	4.5	57.6	18.3	13.5	0.5	4.3	18.7	12.8	1.4	4.5	71.6	36.7	1.3	33.6	33.5	17.1	1.2	15.2
1996	126.4	67.5	4.8	54.2	16.0	9.0	0.6	6.4	16.6	10.6	1.7	4.2	68.1	32.3	1.3	34.4	25.8	15.5	1.2	9.2
1997	111.1	63.6	3.7	43.8	11.3	7.1	0.4	3.8	14.1	9.2	1.3	3.6	58.7	32.0	1.2	25.5	26.9	15.2	0.8	10.8
1998	137.1	79.5	3.1	54.5	16.0	10.2	0.5	5.3	18.2	11.8	1.1	5.3	75.9	41.4	0.8	33.7	27.1	16.2	0.7	10.2
<b>END OF MONTH</b>																				
1998:																				
January	114.1	65.4	5.5	43.2	12.4	7.4	0.6	4.4	15.0	8.4	1.6	5.0	63.0	35.6	2.0	25.4	23.7	13.9	1.3	8.5
February	120.5	68.4	4.3	47.8	11.1	7.7	0.5	2.9	16.7	9.8	1.4	5.5	65.1	36.0	1.4	27.7	27.7	14.9	0.9	11.9
March	128.9	73.7	4.9	50.3	11.9	8.4	0.6	3.0	18.9	12.1	1.4	5.4	71.0	38.4	1.8	30.7	27.1	14.8	1.1	11.3
April	135.1	78.4	4.1	52.6	11.9	7.9	0.5	3.5	19.5	13.4	1.3	4.8	72.1	40.0	1.5	30.6	31.7	17.1	0.9	13.7
May	134.2	77.5	4.5	52.2	10.7	7.6	0.5	2.6	21.1	12.6	1.4	7.1	73.2	38.5	1.5	33.2	29.2	18.7	1.1	9.3
June	135.3	78.7	4.7	51.9	12.5	9.1	0.6	2.8	22.0	14.0	1.4	6.6	72.3	39.0	1.6	31.7	28.4	16.6	1.1	10.7
July	130.0	77.2	5.4	47.4	12.0	7.8	0.6	3.6	22.0	13.4	1.7	7.0	70.0	40.2	1.8	28.0	25.9	15.9	1.2	8.8
August	128.4	78.1	3.5	46.8	12.1	7.5	0.5	4.2	20.2	14.4	1.1	4.7	71.4	41.0	1.2	29.3	24.6	15.2	0.8	8.7
September	131.8	78.0	3.3	50.5	13.5	8.4	0.4	4.7	21.5	15.0	1.2	5.3	74.9	41.1	1.0	32.9	21.8	13.5	0.8	7.6
October	129.7	76.6	3.3	49.9	13.0	8.1	0.4	4.5	19.0	12.6	1.0	5.4	72.8	41.2	1.0	30.6	24.9	14.7	0.8	9.5
November	127.2	70.0	3.1	54.1	13.6	6.9	0.5	6.3	17.9	11.4	1.1	5.4	69.7	36.5	1.0	32.3	26.0	15.2	0.6	10.1
December	137.1	79.5	3.1	54.5	16.0	10.2	0.5	5.3	18.2	11.8	1.1	5.3	75.9	41.4	0.8	33.7	27.1	16.2	0.7	10.2
1999:																				
January	135.3	76.1	2.8	56.4	16.6	10.9	0.5	5.2	18.1	11.0	0.8	6.2	75.3	38.4	0.8	36.0	25.3	15.7	0.6	9.0
February	137.2	78.5	3.3	55.4	16.2	11.5	0.6	4.2	20.5	12.2	0.9	7.3	73.3	37.7	1.0	34.6	27.2	17.2	0.7	9.3
March <sup>r</sup>	141.5	84.0	3.2	54.4	17.5	11.2	0.5	5.8	22.6	15.3	1.0	6.4	72.4	38.7	1.0	32.7	29.0	18.8	0.7	9.6
April <sup>f</sup>	149.9	95.7	2.5	51.7	19.5	13.4	0.4	5.7	26.1	20.0	0.8	5.3	76.4	43.8	0.8	31.8	27.9	18.4	0.5	8.9
May <sup>p</sup>	140.5	87.7	2.9	49.9	18.8	12.7	0.4	5.6	25.1	17.9	0.9	6.2	71.4	40.9	0.9	29.6	25.3	16.1	0.6	8.5
<b>AVERAGE RELATIVE STANDARD ERRORS<sup>1</sup></b>																				
End of period . (percent) . .	4	3	9	8	10	12	24	13	10	10	17	30	5	3	18	11	6	7	11	8

<sup>p</sup>Preliminary. <sup>r</sup>Revised.

<sup>1</sup>Average 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]

Period	United States			Inside MSAs <sup>1</sup>			Outside MSAs <sup>1</sup>			Northeast			Midwest			South			West		
	Total <sup>2</sup>	In structures with—		Total <sup>2</sup>	In structures with—		Total <sup>2</sup>	In structures with—		Total <sup>2</sup>	In structures with—		Total <sup>2</sup>	In structures with—		Total <sup>2</sup>	In structures with—		Total <sup>2</sup>	In structures with—	
		1 unit	5 units or more		1 unit	5 units or more		1 unit	5 units or more		1 unit	5 units or more		1 unit	5 units or more		1 unit	5 units or more		1 unit	5 units or more
<b>ANNUAL DATA</b>																					
1979 .....	1,745	1,194	429	1,241	790	362	505	405	67	178	123	46	349	243	80	748	522	184	470	306	119
1980 .....	1,292	852	331	914	563	271	379	289	59	125	87	30	218	142	56	643	428	165	306	196	80
1981 .....	1,084	705	288	760	458	236	324	247	52	117	84	25	165	110	40	562	363	153	240	148	69
1982 .....	1,062	663	320	785	452	274	277	211	46	117	79	31	149	99	38	591	357	189	205	127	61
1983 .....	1,703	1,068	522	1,351	795	464	352	272	58	168	123	35	218	153	48	935	557	317	382	234	121
1984 .....	1,750	1,084	544	1,415	830	491	335	254	53	204	158	35	243	167	60	866	528	274	436	230	175
1985 .....	1,742	1,072	576	1,494	882	535	248	190	41	252	182	55	240	148	77	782	504	240	468	239	204
1986 .....	1,805	1,179	542	1,546	970	508	259	209	34	294	228	50	296	188	91	733	504	201	483	261	200
1987 .....	1,620	1,146	409	1,372	934	385	248	212	24	269	204	50	298	203	81	634	485	129	420	255	148
1988 .....	1,488	1,081	348	1,243	874	323	245	207	25	235	181	42	274	194	66	575	443	115	404	264	125
1989 .....	1,376	1,003	318	1,128	798	289	248	205	29	178	132	37	266	190	62	536	409	109	396	272	108
1990 .....	1,193	895	260	947	685	233	246	210	27	131	104	21	253	193	50	479	371	99	329	226	91
1991 .....	1,014	840	138	789	648	117	225	193	21	113	99	8	233	191	31	414	353	51	254	197	47
1992 .....	1,200	1,030	139	932	793	117	268	237	22	127	112	11	288	236	42	497	438	50	288	244	36
1993 .....	1,288	1,126	133	1,032	897	114	256	229	19	126	116	8	298	251	37	562	498	55	302	261	33
1994 .....	1,457	1,198	224	1,183	958	200	274	241	23	138	123	12	329	268	50	639	522	107	351	286	54
1995 .....	1,354	1,076	244	1,106	861	221	248	215	23	118	102	12	290	234	46	615	485	119	331	256	67
1996 .....	1,477	1,161	271	1,211	936	242	265	225	29	132	112	15	321	254	51	662	524	125	361	271	79
1997 .....	1,474	1,134	296	1,221	923	267	253	211	29	137	111	21	304	238	48	670	507	151	363	278	76
1998 .....	1,617	1,271	303	1,350	1,036	280	267	235	23	148	122	21	330	273	45	743	574	155	395	303	83
<b>QUARTERLY DATA</b>																					
1995: 1st quarter ....	270	214	48	226	177	44	44	37	4	22	19	2	45	36	8	134	106	24	69	54	14
2nd quarter ....	371	297	65	298	232	59	73	65	6	36	29	5	85	70	12	160	127	30	91	70	19
3rd quarter ....	387	308	69	314	245	62	73	63	7	33	30	2	89	72	14	170	133	35	95	73	19
4th quarter ....	326	257	62	268	207	56	58	50	6	27	24	3	71	57	13	152	118	31	76	59	15
1996: 1st quarter ....	303	240	57	253	198	52	49	42	6	21	18	2	53	43	8	145	117	27	84	62	20
2nd quarter ....	428	344	69	348	275	62	80	69	7	39	33	4	96	78	13	188	154	30	105	79	22
3rd quarter ....	410	324	75	332	257	66	78	67	9	38	33	4	99	78	17	176	139	34	97	74	20
4th quarter ....	335	252	69	278	206	62	58	47	8	34	27	5	74	55	14	152	115	34	76	55	17
1997: 1st quarter ....	297	238	51	255	202	47	42	36	4	26	20	5	49	40	6	143	115	26	80	63	15
2nd quarter ....	419	325	83	342	260	74	77	65	9	36	31	5	92	74	14	190	143	43	101	77	21
3rd quarter ....	400	315	75	328	252	68	72	62	7	40	33	6	88	72	12	177	134	39	96	75	18
4th quarter ....	357	257	86	296	209	78	62	48	8	35	28	6	75	52	16	161	115	43	87	62	22
1998: 1st quarter ....	325	258	57	279	219	52	46	39	5	28	22	5	55	45	7	157	125	29	84	66	16
2nd quarter ....	448	360	74	366	287	68	82	73	6	40	34	4	97	83	9	200	158	38	111	85	23
3rd quarter ....	445	348	86	369	281	80	76	67	7	41	35	5	92	76	13	201	153	44	111	84	24
4th quarter ....	399	305	86	336	250	79	63	55	6	39	31	7	86	68	15	185	138	44	89	68	20
1999: 1st quarter <sup>f</sup> ....	370	294	68	318	248	64	52	46	4	30	24	5	59	52	5	193	149	41	88	69	17
<b>AVERAGE RELATIVE STANDARD ERRORS<sup>3</sup></b>																					
Annual . . . . . (percent) ..	1	1	3	1	1	3	3	4	9	3	2	17	2	3	5	1	2	4	1	1	2
Quarterly . . . . . (percent) ..	1	1	5	1	1	5	4	5	26	4	3	20	3	4	15	2	2	7	1	1	5

<sup>f</sup>Revised.

<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**

Period	United States implicit index <sup>1</sup>	In structures with—						All units			
		1 unit				2 to 4 units	5 units or more	North-east	Midwest	South	West
		North-east	Midwest	South	West						
<b>1999</b>											
February .....	76.8	63.4	60.9	87.9	78.2	69.9	74.9	54.0	56.1	86.2	78.0
March <sup>r</sup> .....	102.6	94.5	95.2	111.0	111.3	100.3	88.8	100.2	93.2	108.2	106.9
April <sup>r</sup> .....	111.1	104.2	114.9	115.0	110.8	116.5	103.5	105.4	115.4	109.7	110.1
May <sup>p</sup> .....	111.2	114.2	119.5	109.8	107.2	111.7	108.6	113.2	118.5	109.3	110.8

<sup>p</sup>Preliminary. <sup>r</sup>Revised.

<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.

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

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

Period	United States implicit index <sup>1</sup>	In structures with—						All units			
		1 unit				2 to 4 units	5 units or more	North-east	Midwest	South	West
		North-east	Midwest	South	West						
<b>1999</b>											
February .....	78.3	60.3	63.7	90.0	80.7	76.0	76.4	63.5	64.0	87.6	81.6
March .....	110.3	101.4	108.8	117.3	116.4	106.4	99.2	102.9	106.4	112.7	113.0
April <sup>r</sup> .....	113.8	116.7	127.0	114.6	113.1	111.0	101.4	112.3	119.9	114.4	109.5
May <sup>p</sup> .....	106.7	114.7	118.9	105.3	109.5	101.3	93.9	108.6	114.9	101.9	103.5

<sup>p</sup>Preliminary. <sup>r</sup>Revised.

<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.

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