

Table 39. Live births by method of delivery and rates of cesarean delivery and vaginal birth after previous cesarean delivery, by race and Hispanic origin of mother: United States, 1989–2002

| Year and race and Hispanic origin of mother | Births by method of delivery | | | | | | | Cesarean delivery rate | | Rate of vaginal birth after previous cesarean ³ |
|---|------------------------------|-----------|-------------------------------|-----------|---------|---------|--------------------|------------------------|---------------|--|
| | All births | Vaginal | | Cesarean | | | Total ¹ | Primary ² | | |
| | | Total | After previous cesarean | Total | Primary | Repeat | | | Not stated | |
| All races⁴ | | | | | | | | | | |
| 2002 | 4,021,726 | 2,958,423 | 59,248 | 1,043,846 | 634,426 | 409,420 | 19,457 | 26.1 | 18.0 | 12.6 |
| 2001 | 4,025,933 | 3,027,993 | 74,048 | 978,411 | 601,383 | 377,028 | 19,529 | 24.4 | 16.9 | 16.4 |
| 2000 | 4,058,814 | 3,108,188 | 89,978 | 923,991 | 577,638 | 346,353 | 26,635 | 22.9 | 16.1 | 20.6 |
| 1999 | 3,959,417 | 3,063,870 | 97,680 | 862,086 | 542,080 | 320,006 | 33,461 | 22.0 | 15.5 | 23.4 |
| 1998 | 3,941,553 | 3,078,537 | 108,903 | 825,870 | 519,975 | 305,895 | 37,146 | 21.2 | 14.9 | 26.3 |
| 1997 | 3,880,894 | 3,046,621 | 112,145 | 799,033 | 502,526 | 296,507 | 35,240 | 20.8 | 14.6 | 27.4 |
| 1996 | 3,891,494 | 3,061,092 | 116,045 | 797,119 | 503,724 | 293,395 | 33,283 | 20.7 | 14.6 | 28.3 |
| 1995 | 3,899,589 | 3,063,724 | 112,439 | 806,722 | 510,104 | 296,618 | 29,143 | 20.8 | 14.7 | 27.5 |
| 1994 | 3,952,767 | 3,087,576 | 110,341 | 830,517 | 520,647 | 309,870 | 34,674 | 21.2 | 14.9 | 26.3 |
| 1993 | 4,000,240 | 3,098,796 | 103,581 | 861,987 | 539,251 | 322,736 | 39,457 | 21.8 | 15.3 | 24.3 |
| 1992 | 4,065,014 | 3,100,710 | 97,549 | 888,622 | 554,662 | 333,960 | 75,682 | 22.3 | 15.6 | 22.6 |
| 1991 | 4,110,907 | 3,100,891 | 90,690 | 905,077 | 569,195 | 335,882 | 104,939 | 22.6 | 15.9 | 21.3 |
| 1990 ⁵ | 4,110,563 | 3,111,421 | 84,299 | 914,096 | 575,066 | 339,030 | 85,046 | 22.7 | 16.0 | 19.9 |
| 1989 ⁶ | 3,798,734 | 2,793,463 | 71,019 | 826,955 | 521,873 | 305,082 | 178,316 | 22.8 | 16.1 | 18.9 |
| White total⁷ | | | | | | | | | | |
| 2002 | 3,174,760 | 2,340,512 | 46,004 | 818,347 | 493,002 | 325,345 | 15,901 | 25.9 | 17.7 | 12.4 |
| 2001 | 3,177,626 | 2,394,930 | 58,053 | 766,771 | 467,285 | 299,486 | 15,925 | 24.3 | 16.7 | 16.2 |
| 2000 | 3,194,005 | 2,449,264 | 70,414 | 723,209 | 449,161 | 274,048 | 21,532 | 22.8 | 15.9 | 20.4 |
| 1999 | 3,132,501 | 2,426,092 | 77,158 | 678,952 | 424,148 | 254,804 | 27,457 | 21.9 | 15.3 | 23.2 |
| 1998 | 3,118,727 | 2,440,113 | 86,495 | 649,987 | 406,439 | 243,548 | 28,627 | 21.0 | 14.7 | 26.2 |
| 1997 | 3,072,640 | 2,415,236 | 89,522 | 630,613 | 393,603 | 237,010 | 26,791 | 20.7 | 14.5 | 27.4 |
| 1996 | 3,093,057 | 2,434,079 | 93,783 | 631,409 | 395,851 | 235,558 | 27,569 | 20.6 | 14.5 | 28.5 |
| 1995 | 3,098,885 | 2,435,191 | 90,940 | 639,818 | 401,098 | 238,720 | 23,876 | 20.8 | 14.6 | 27.6 |
| 1994 | 3,121,004 | 2,435,965 | 88,471 | 656,400 | 407,946 | 248,454 | 28,639 | 21.2 | 14.8 | 26.3 |
| 1993 | 3,149,833 | 2,435,229 | 82,995 | 682,355 | 423,540 | 258,815 | 32,249 | 21.9 | 15.3 | 24.3 |
| 1992 | 3,201,678 | 2,434,959 | 77,977 | 705,841 | 437,398 | 268,443 | 60,878 | 22.5 | 15.7 | 22.5 |
| 1991 | 3,241,273 | 2,434,900 | 72,564 | 723,088 | 452,534 | 270,554 | 83,285 | 22.9 | 16.1 | 21.1 |
| 1990 ⁵ | 3,252,473 | 2,453,857 | 67,191 | 732,713 | 458,656 | 274,057 | 65,903 | 23.0 | 16.1 | 19.7 |
| 1989 ⁶ | 3,022,537 | 2,212,843 | 56,851 | 667,114 | 418,177 | 248,937 | 142,580 | 23.2 | 16.2 | 18.6 |
| Non-Hispanic white | | | | | | | | | | |
| 2002 | 2,298,156 | 1,687,144 | 33,440 | 598,682 | 370,339 | 228,343 | 12,330 | 26.2 | 18.3 | 12.8 |
| 2001 | 2,326,578 | 1,746,551 | 43,215 | 567,488 | 353,977 | 213,511 | 12,539 | 24.5 | 17.2 | 16.8 |
| 2000 | 2,362,968 | 1,804,550 | 52,912 | 540,794 | 342,732 | 198,062 | 17,624 | 23.1 | 16.4 | 21.1 |
| 1999 | 2,346,450 | 1,810,682 | 59,480 | 514,051 | 327,106 | 186,945 | 21,717 | 22.1 | 15.7 | 24.1 |
| 1998 | 2,361,462 | 1,842,420 | 67,787 | 495,550 | 315,138 | 180,412 | 23,492 | 21.2 | 15.1 | 27.3 |
| 1997 | 2,333,363 | 1,829,213 | 70,284 | 481,982 | 305,605 | 176,377 | 22,168 | 20.9 | 14.8 | 28.5 |
| 1996 | 2,358,989 | 1,851,058 | 73,973 | 485,530 | 308,482 | 177,048 | 22,401 | 20.8 | 14.8 | 29.5 |
| 1995 | 2,382,638 | 1,867,024 | 72,124 | 496,103 | 313,933 | 182,170 | 19,511 | 21.0 | 14.9 | 28.4 |
| 1994 | 2,438,855 | 1,896,609 | 71,597 | 518,021 | 324,236 | 193,785 | 24,225 | 21.5 | 15.1 | 27.0 |
| 1993 | 2,472,031 | 1,902,433 | 67,536 | 542,013 | 338,236 | 203,777 | 27,585 | 22.2 | 15.6 | 24.9 |
| 1992 ⁹ | 2,527,207 | 1,916,414 | 63,828 | 566,788 | 352,470 | 214,318 | 44,005 | 22.8 | 16.0 | 22.9 |
| 1991 ⁹ | 2,589,878 | 1,941,726 | 60,174 | 587,802 | 368,721 | 219,081 | 60,350 | 23.2 | 16.4 | 21.5 |
| 1990 ^{5,10} | 2,626,500 | 1,972,754 | 55,952 | 603,467 | 378,508 | 224,959 | 50,279 | 23.4 | 16.5 | 19.9 |
| 1989 ^{6,11} | 2,526,367 | 1,806,753 | 47,559 | 556,585 | 349,858 | 206,727 | 163,029 | 23.6 | 16.6 | 18.7 |
| Black total⁷ | | | | | | | | | | |
| 2002 | 593,691 | 427,801 | 9,567 | 163,295 | 100,621 | 62,674 | 2,595 | 27.6 | 19.4 | 13.2 |
| 2001 | 606,156 | 447,458 | 11,747 | 156,071 | 97,429 | 58,642 | 2,627 | 25.9 | 18.3 | 16.7 |
| 2000 | 622,598 | 468,497 | 14,382 | 150,401 | 94,767 | 55,634 | 3,700 | 24.3 | 17.3 | 20.5 |
| 1999 | 605,970 | 462,401 | 15,438 | 139,471 | 88,269 | 51,202 | 4,098 | 23.2 | 16.5 | 23.2 |
| 1998 | 609,902 | 470,088 | 17,062 | 135,727 | 86,438 | 49,289 | 4,087 | 22.4 | 16.0 | 25.7 |
| 1997 | 599,913 | 466,001 | 16,986 | 130,142 | 83,025 | 47,117 | 3,770 | 21.8 | 15.6 | 26.5 |
| 1996 | 594,781 | 462,378 | 16,866 | 128,357 | 82,646 | 45,711 | 4,046 | 21.7 | 15.6 | 27.0 |
| 1995 | 603,139 | 468,984 | 16,224 | 130,482 | 84,441 | 46,041 | 3,673 | 21.8 | 15.7 | 26.1 |
| 1994 | 636,391 | 493,879 | 16,970 | 138,067 | 88,636 | 49,431 | 4,445 | 21.8 | 15.7 | 25.6 |
| 1993 | 658,875 | 509,816 | 16,179 | 143,452 | 91,677 | 51,775 | 5,607 | 22.0 | 15.7 | 23.8 |
| 1992 | 673,633 | 514,929 | 15,382 | 146,480 | 93,165 | 53,315 | 12,224 | 22.1 | 15.7 | 22.4 |
| 1991 | 682,602 | 519,047 | 14,213 | 145,583 | 92,645 | 52,938 | 17,972 | 21.9 | 15.5 | 21.2 |
| 1990 ⁵ | 679,236 | 516,581 | 13,496 | 146,472 | 93,476 | 52,996 | 16,183 | 22.1 | 15.7 | 20.3 |
| 1989 ⁶ | 611,147 | 452,921 | 11,104 | 127,907 | 82,695 | 45,212 | 30,319 | 22.0 | 15.8 | 19.7 |

See footnotes at end of table.

Table 39. Live births by method of delivery and rates of cesarean delivery and vaginal birth after previous cesarean delivery, by race and Hispanic origin of mother: United States, 1989–2002—Con.

| Year and race and Hispanic origin of mother | Births by method of delivery | | | | | | | Cesarean delivery rate | | Rate of vaginal birth after previous cesarean ³ |
|---|------------------------------|---------|-------------------------------|----------|---------|--------|---------------|------------------------|----------------------|--|
| | All births | Vaginal | | Cesarean | | | Not stated | Total ¹ | Primary ² | |
| | | Total | After previous cesarean | Total | Primary | Repeat | | | | |
| Non-Hispanic black | | | | | | | | | | |
| 2002 | 578,335 | 416,516 | 9,317 | 159,297 | 98,245 | 61,052 | 2,522 | 27.7 | 19.4 | 13.2 |
| 2001 | 589,917 | 435,455 | 11,417 | 151,908 | 94,912 | 56,996 | 2,554 | 25.9 | 18.3 | 16.7 |
| 2000 | 604,346 | 454,736 | 13,910 | 146,042 | 92,044 | 53,998 | 3,568 | 24.3 | 17.3 | 20.5 |
| 1999 | 588,981 | 449,580 | 14,999 | 135,508 | 85,898 | 49,610 | 3,893 | 23.2 | 16.5 | 23.2 |
| 1998 | 593,127 | 457,186 | 16,510 | 131,999 | 84,169 | 47,830 | 3,942 | 22.4 | 16.0 | 25.7 |
| 1997 | 581,431 | 451,744 | 16,353 | 126,138 | 80,599 | 45,539 | 3,549 | 21.8 | 15.6 | 26.4 |
| 1996 | 578,099 | 449,544 | 16,322 | 124,836 | 80,457 | 44,379 | 3,719 | 21.7 | 15.7 | 26.9 |
| 1995 | 587,781 | 457,104 | 15,721 | 127,171 | 82,395 | 44,776 | 3,506 | 21.8 | 15.7 | 26.0 |
| 1994 | 619,198 | 480,551 | 16,478 | 134,526 | 86,411 | 48,115 | 4,121 | 21.9 | 15.7 | 25.5 |
| 1993 | 641,273 | 496,333 | 15,675 | 139,702 | 89,315 | 50,387 | 5,238 | 22.0 | 15.7 | 23.7 |
| 1992 ⁹ | 657,450 | 502,669 | 14,950 | 143,153 | 91,086 | 52,067 | 11,628 | 22.2 | 15.7 | 22.3 |
| 1991 ⁹ | 666,758 | 507,522 | 13,847 | 142,417 | 90,664 | 51,753 | 16,819 | 21.9 | 15.5 | 21.1 |
| 1990 ^{5,10} | 661,701 | 503,720 | 13,157 | 142,838 | 91,175 | 51,663 | 15,143 | 22.1 | 15.7 | 20.3 |
| 1989 ^{6,11} | 611,269 | 440,310 | 10,726 | 125,290 | 81,177 | 44,113 | 45,669 | 22.2 | 15.9 | 19.6 |
| Hispanic⁸ | | | | | | | | | | |
| 2002 | 876,642 | 653,516 | 12,610 | 219,777 | 122,603 | 97,174 | 3,349 | 25.2 | 16.1 | 11.5 |
| 2001 | 851,851 | 648,821 | 14,846 | 199,874 | 113,529 | 86,345 | 3,156 | 23.6 | 15.2 | 14.7 |
| 2000 | 815,868 | 633,220 | 17,062 | 179,583 | 104,597 | 74,986 | 3,065 | 22.1 | 14.5 | 18.5 |
| 1999 | 764,339 | 599,118 | 16,915 | 161,035 | 94,433 | 66,602 | 4,186 | 21.2 | 14.0 | 20.3 |
| 1998 | 734,661 | 580,143 | 17,803 | 150,317 | 88,763 | 61,554 | 4,201 | 20.6 | 13.6 | 22.4 |
| 1997 | 709,767 | 563,114 | 17,942 | 142,907 | 84,410 | 58,497 | 3,746 | 20.2 | 13.4 | 23.5 |
| 1996 | 701,339 | 558,105 | 18,491 | 139,554 | 83,392 | 56,162 | 3,680 | 20.0 | 13.4 | 24.8 |
| 1995 | 679,768 | 539,731 | 17,396 | 136,640 | 82,662 | 53,978 | 3,397 | 20.2 | 13.7 | 24.4 |
| 1994 | 665,026 | 525,928 | 16,206 | 135,569 | 81,961 | 53,608 | 3,529 | 20.5 | 13.9 | 23.2 |
| 1993 | 654,418 | 514,493 | 14,586 | 136,279 | 82,576 | 53,703 | 3,646 | 20.9 | 14.2 | 21.4 |
| 1992 ⁹ | 643,271 | 494,338 | 13,111 | 133,369 | 81,211 | 52,158 | 15,564 | 21.2 | 14.4 | 20.1 |
| 1991 ⁹ | 623,085 | 472,126 | 11,615 | 129,752 | 80,228 | 49,524 | 21,207 | 21.6 | 14.8 | 19.0 |
| 1990 ^{5,10} | 595,073 | 458,242 | 10,395 | 122,969 | 76,027 | 46,942 | 13,862 | 21.2 | 14.5 | 18.1 |
| 1989 ^{6,11} | 532,249 | 385,462 | 8,549 | 105,268 | 64,905 | 40,363 | 41,519 | 21.5 | 14.7 | 17.5 |

¹Percent of all live births by cesarean delivery.²Number of primary cesareans per 100 live births to women who have not had a previous cesarean.³Number of vaginal births after previous cesarean delivery per 100 live births to women with a previous cesarean delivery.⁴Includes races other than white and black and origin not stated.⁵Excludes data for Oklahoma, which did not report method of delivery on the birth certificate.⁶Excludes data for Louisiana, Maryland, Nebraska, Nevada, and Oklahoma, which did not report method of delivery on the birth certificate.⁷Race and Hispanic origin are reported separately on the birth certificate. Race categories are consistent with the 1977 Office of Management and Budget guidelines. Data for persons of Hispanic origin are included in the data for each race group according to the mother's reported race; see "Technical Notes."⁸Includes all persons of Hispanic origin of any race.⁹Excludes data for New Hampshire, which did not report Hispanic origin.¹⁰Excludes data for New Hampshire and Oklahoma, which did not report Hispanic origin.¹¹Excludes data for Louisiana, New Hampshire, and Oklahoma, which did not report Hispanic origin.